

M.Sc. Chemistry
Open elective paper (MSc/Chem/9/OEC1)
Basic Concepts of Chemistry

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Able to discuss about the newly discovered elements and their utility in periodic table.
- CO2 Apply the knowledge of hybridisation and tell the structure of molecules and nomenclature about organic molecules & discuss about delocalization of electrons.
- CO3 Demonstrate the principle and applications of chromatographic methods.
- CO4 Describe the corrosion, its types and prevention and to study types of cells and batteries along with introduction to lead storage battery and solar cells, fuel cells.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

The Periodic Table-History and Developments

Overview of the periodic system, discoverers of the periodic system, quantitative relationships among the elements and origin of periodic table, the acceptance of Mendeleev's periodic table, Moseley's law and periodic table, radioactivity, atomic number and isotopy, transuranium elements, newly discovered elements and completion of periodic table.

UNIT-II

Introduction to Organic Chemistry

VSEPR theory, Molecular Orbital Theory.

Concept of Hybridisation & structure of organic molecules like ethane, ethylene and ethyne. Preliminary idea of nomenclature of simple organic molecules Delocalized chemical bonding-conjugation, resonance.

Types of reactions and attacking reagents.

UNIT-III

Chromatography

Introduction, Classification of chromatographic methods; Adsorption and Partition Chromatography (Column, Paper and Thin Layer Chromatography), Applications of chromatography.

UNIT-IV

Introduction to Physical Chemistry

Cells and Battery: Types of cells and reactions occurring in cells, Solar cells, Fuel cells, Lead storage battery.

Corrosion: Theory/Principles of Corrosion, Electrochemical theory, Types and factors affecting corrosion, protection from corrosion.

Mapping of Paper No. MSc/Chem/9/OEC1

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	W	S	S	M	S	S	S	S	S
CO2	S	S	S	W	S	S	S	S	S	M	S	S
CO3	S	S	S	S	S	S	S	M	S	S	S	S
CO4	S	S	S	S	S	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Inorganic chemistry, Puri, Sharma, Kalia.
2. Physical Chemistry, Puri, Sharma, Pathania.
3. The periodic table: its story and its significance, Eric R. Scerri.
4. Organic Chemistry, Morrison & Boyd.

M.Sc. Chemistry
Open elective paper (MSc/Chem/9/OEC2)
Environmental and Analytical Chemistry

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Able to describe the hydrological cycle of water, water pollution, water quality parameter and standards.
- CO2 Illustrate the chemical composition of atmosphere and apply in chemistry of air pollution and control.
- CO3 Recognize the toxic effects of different elements.
- CO4 Apply the knowledge of food analysis in practical problems.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Hydrosphere

Hydrological cycle of water, Water pollution – inorganic, organic, pesticide, agricultural, industrial and sewage, detergents, oil spills and oil pollutants. Water quality parameters – dissolved oxygen, biochemical oxygen demand, solids, metals, content of chloride, sulphate, phosphate, nitrate and micro-organisms. Water quality standards.

UNIT-II

Atmosphere

Chemical composition of atmosphere – particles, ions and radicals and their formation, Chemical and photochemical reactions in atmosphere, smog formation, oxides of N, C, S and their effect, air pollution controls and their chemistry.

UNIT-III

Toxicology

Definition of toxicology, its history, scope and literature, Dose-response relationship. Absorption, Distribution and excretion of toxic materials. Toxicity by metal ions, (like Pb, Hg, Al, Ni, As), Organic toxicants such as halogenated hydrocarbons, pesticides and solvents, Chemical carcinogens.

UNIT-IV

Analysis of Food

Importance of Food analysis, Biomolecules- Fats, Carbohydrates (structures, uses, different types), Vitamins (uses, deficiency diseases, types of vitamins). Determination of approximate composition of fat & carbohydrates.

Mapping of Paper No. MSc/Chem/9/OEC2

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S	S	M	S	S
CO3	S	S	S	S	S	S	S	M	S	S	S	S
CO4	S	S	S	S	S	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Environmental Chemistry; A. K. De, Wiley Eastern.
2. Environmental Pollution Analysis; S. M. Khopkar, Wiley Eastern.
3. Environmental Chemistry; S. K. Banerji: Prentice– Hall.
4. Instrumental methods of Analysis; L. L. Merits, R. H. Willard and J. A. Dean; Van Nostrand-Reinhold.

M.Sc. Chemistry
Open elective paper (MSc/Chem/9/OEC3)
Chemistry in Everyday Life

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course Outcomes:

- CO1 Get the knowledge of Polymers, their classification and properties, synthesis of some given polymers.
- CO2 Describe the concept of soaps and detergents, their types, and their cleansing action.
- CO3 Demonstrate about the colour theories of dyes and differentiate the types of dyes.
- CO4 Explain about Food additives.
- CO5 Describe the enzymes, their role, properties, models.
- CO6 Illustrate basics of medicines and their use in daily life.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Polymer Chemistry

Polymer basic concepts: monomers, classification of polymers, types of polymerizations, Flame retardant polymers, Thermoplastics and Thermosets.

Some specific polymers and their application: Polyamides, Polyesters, Synthetic rubber, natural rubber, Teflon, PMMA, High density and low-density polymer, plasticizers.

UNIT-II

Soaps & Detergents

Chemical composition, Types of Detergents, constitution and cleaning action of the soap and detergents. Difference between soaps and detergents.

Dyes

An introduction of dyes, different types of dyes, Color theory of dyes.

UNIT – III

Food Additives

Artificial sweeteners, preservatives, colour additives, rancidity.

Enzymes

Introduction, properties, Fischer's lock and key model and Koshland's induced fit hypothesis, Cofactors as derived from vitamins, Coenzymes, Prosthetic groups, Apoenzymes.

UNIT – IV

Medicinal Chemistry

Definition of Drug/medicine, Generic and trade names, Therapeutic index, LD₅₀ and ED₅₀, Different categories of Medicines like antipyretics, anti-inflammatory, antibiotics, anti-viral, anti-allergic, anta-acids, anti-malarial, tranquilizers with their examples.

Mapping of Paper No. MSc/Chem/9/OEC3

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	M	S	S	S	S	S	S	S
CO2	S	S	S	S	M	S	S	W	S	S	S	S
CO3	S	S	S	S	M	S	S	M	S	S	S	S
CO4	S	S	S	S	M	S	S	M	S	S	S	S
CO5	S	S	S	S	M	S	S	S	S	S	S	S
CO6	S	S	S	S	M	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Polymer Chemistry, Billmeyer.
2. Polymer Chemistry, Gowarikar.
3. Principles of Polymerization, Geroge Odian.
4. Wilson and Gisvold's Textbook of Organic Medicinal and Pharmaceutical Chemistry, Ed. Robert F. Dorge.
5. Burger's Medicinal Chemistry and Drug Discovery, Vol-I, Ed. M.E.Wolf, John Wiley.
6. Goodman and Gilman's Pharmacological Basis of Therapeutics, McGraw-Hill.

M.Sc. Chemistry (1st Sem.)
MSc/Chem/1/CC1
Inorganic Chemistry-I

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course Outcomes:

- CO1 Describe advanced symmetry concepts of chemical molecules and its applications.
- CO2 Able to analyze the axis, plane, center and point group, polarity, dipole moment, product of symmetry operation and character table of chemical compounds.
- CO3 Explains about VBT, crystal field theory and its effects in coordination complexes.
- CO4 Apply the concept of molecular orbital theory to tetrahedral square planar and octahedral complexes.
- CO5 Demonstrate the factors affecting stability of metal ligand complexes.
- CO6 Able to use the various methods for the determination of stability constant.
- CO7 Discuss the various possible arrangements of electrons in terms of term of symbols.
- CO8 Able to describe the magnetic properties of free ions and calculate magnetic moments.
- CO9 Draw the vector diagrams of orbital coupling and spin orbital coupling in d^1 - d^9 states configurations.
- CO10 Calculate the spectral terms for d^1 - d^9 metal ions.
- CO11 Derive the term symbol for closed subshell.
- CO12 Illustrate the Orgel diagrams, Tanabe-Sugano diagrams for transition metal complexes (d^1 - d^9 states).

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Symmetry and Group Theory

Definitions of group, subgroup, relation between orders of a finite groups and its subgroups, Symmetry elements, Symmetry point groups, Representation of symmetry operations as matrices (representation for the C_n , C_{nv} , C_{nh} , D_{nh} etc.), Set of symmetry operations of molecules satisfying the conditions of point groups, Multiplication tables.

Representation: Basis of representation, Reducible & Irreducible Representation of point groups. Great orthogonality theorem (without proof) and various relationships derived from it. Derivation of character tables for C_{2v} point group.

UNIT-II

Valence Bond Theory

Outer and inner octahedral complexes, Limitations of VBT, Crystal field theory: Crystal field splitting; Octahedral, Tetragonal, Square planar and Tetrahedral complexes. Distorted octahedral complexes (Jahn Teller effect), Spectrochemical series, Comparison of CFSE value for d^1 to d^9 ion in terms of orbital splitting (Low and high spin).

Colours of transition metal complexes, Spinel structure, Heat of hydration, Limitations of CFT.

Molecular Orbital Theory: Composition of ligand groups, Orbitals, Sigma and pi-molecular orbitals, MOT diagrams.

Charge transfer spectra, angular overlap model as applied to transition metal complexes. Selection rules of d-d transitions, Orgel and Tanabe-Sugano diagrams.

UNIT-III

Introduction to Ligands

Introduction, Stability (kinetic and thermodynamic) of complexes in aqueous solution, Stepwise and overall formation constants of complexes and their determination by spectrophotometric and pH measurement methods. Labile and inert octahedral complexes according to VBT and CFT, Factors affecting lability and stability of complexes (Irving- William order). Chelate effect, Macrocyclic effect, Multidentate ligands. Classification of ligands: π acid ligands, π acceptor character in terms of MOT diagrams, π acid ligands of other groups of periodic tables.

UNIT-IV

Polyelectronic Atoms

Angular momentum, Addition of angular momentum, LS and JJ couplings. Racah parameters and their relationship, Nephelauxetic effect, Determination of ground terms for d^1 to d^{10} metal ions; Zeeman and Stark effect.

Magnetic Properties of Free Ions

Effect of LS coupling on magnetic properties. Temperature independent paramagnetism (TIP) in terms of crystal field theory (CFT) and molecular orbital theory (MOT). Quenching of orbital momentum by crystal field in complexes in terms of splitting.

Mapping of Paper No. MSc/Chem/1/CC1

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	M	S	S	S	S	S
CO3	S	S	S	S	S	S	S	M	S	S	S	S
CO4	S	S	S	S	S	S	S	M	S	S	M	S
CO5	S	S	S	S	S	M	S	S	S	S	S	M
CO6	S	S	S	S	S	S	M	S	S	S	S	M
CO7	S	S	S	M	M	S	M	S	S	S	M	S
CO8	S	S	M	S	M	M	S	S	S	S	S	M
CO9	S	S	S	S	M	M	M	S	S	S	M	S
CO10	S	M	S	M	S	M	S	S	M	S	S	M
CO11	M	S	S	S	S	M	S	S	M	M	S	S
CO12	S	S	M	S	M	M	S	S	S	S	S	M

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Advanced Inorganic Chemistry, F. A. Cotton, G. Wilkinson, 4th Edition.
2. Inorganic Chemistry, J. E. Huheey, 3rd Edition.
3. Inorganic Electronic Spectroscopy, A. B. P. Lever.
4. Introduction to Magnetochemistry, A. Earnshaw.

5. Chemical Application of group theory, F. A. Cotton.
6. Group theory for Chemists, G. Davidson.
7. Introduction to Ligand Fields, B. N. Figgis.
8. Concise Inorganic Chemistry, J. D. Lee 5th Edition.
9. Concise coordination Chemistry, R. Gopalan, V. Ramalingam.
10. Selected Topics in Inorganic Chemistry, W. U. Malik, G. D. Tuli, R. D. Madan.

M.Sc. Chemistry (1st Sem.)
MSc/Chem/1/CC2
Physical Chemistry-I

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Recapitulation of thermodynamic laws.
- CO2 Explain thermodynamic functions of mixing (free energy, entropy, volume, and enthalpy), concept of escaping tendency and chemical potential.
- CO3 Explain Collision theory of reaction rates, steric requirement, Arrhenius equation and activated complex theory (ACT).
- CO4 Demonstrate thermodynamic formulations of activated complex theory.
- CO5 Study of photochemical reactions and Rice-Herzfeld mechanism of organic molecules.
- CO6 Discuss the various postulates of quantum mechanics.
- CO7 Solve Schrödinger equation for a particle in a box and for a one-dimensional box with a finite barrier and its application to quantum mechanical tunnelling.
- CO8 Solve Schrödinger equation for linear harmonic oscillator and its solution and Learn about operators and their properties.
- CO9 Perform operator mathematics including commutation of operators.

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UNIT-I

Thermodynamics

Brief resume of first and second law of thermodynamics. Entropy changes in reversible and irreversible processes; Variation of entropy with temperature, pressure and volume, Entropy concept as a measure of unavailable energy, Free energy functions and their significance, Criteria for spontaneity of a process; Clausius-Clapeyron equation, Law of mass action and its thermodynamic derivation. Third law of thermodynamics (Nernst heat theorem, determination of absolute entropy, unattainability of absolute zero) and its limitation.

UNIT-II

Chemical Kinetics

Methods of determining rate laws, Collision rates, Steric factors, Arrhenius equation and the activated complex theory, Ionic reactions: single and double sphere models, Influence of solvent and ionic strength.

Chain reactions: Hydrogen-bromine reaction, Pyrolysis of acetaldehyde, Decompositions of ethane. Photochemical reactions (hydrogen-bromine and hydrogen-chlorine reactions). General treatment of chain reaction (hydrogen-bromine reactions), Apparent activation energy of chain reactions, Chain length, Rice-Herzfeld mechanism of organic molecules decomposition (acetaldehyde).

UNIT-III

Quantum Mechanics-I

The postulates of quantum mechanics, Linear and Hermitian operators. Commutation of operators and Uncertainty Principle. Eigen functions and Eigen values. Schrödinger equation, free particle, Schrödinger equation for a particle in a box, the degeneracy, particle in a box with a finite barrier, Tunnelling Problem: Tunnelling through a rectangular barrier Schrödinger equation for linear harmonic oscillator and its solution, zero-point energy.

UNIT-IV

Quantum Mechanics-II

Energy levels and wave-functions of Rigid rotator. Hydrogen atom: Complete solution (separation of variables in spherical polar coordinates and its solution). Radial distributions. Angular momentum operators, angular momentum operators in cartesian coordinates, commutation relation between angular momentum operators (L_x, L_y, L_z, L^2), total orbital angular momentum and spin angular momentum, commutation relation between components of total orbital angular momentum and spin angular momentum, ladder operators, commutators of [L_z, L_+] and [L_z, L_-], application of ladder operators to an eigen function of L_z , shapes of atomic orbitals up to d-level and their discussion.

Mapping of Paper No. MSc/Chem/1/CC2

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S	S	S	S	S
CO3	S	S	S	S	S	S	S	M	S	S	S	S
CO4	S	S	S	S	M	M	S	M	M	M	M	M
CO5	S	S	S	S	M	S	S	M	S	S	S	S
CO6	S	S	S	S	M	S	S	M	S	S	S	S
CO7	S	S	S	S	M	S	S	M	S	S	S	S
CO8	S	S	S	S	M	S	S	M	S	S	S	S
CO9	S	S	S	S	M	S	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Quantum Chemistry, I. M. Levine, Prentice-Hall.
2. Introduction to Quantum Chemistry, A. K.Chandra, Tata Mc Graw Hill.
3. R P. Rastogi & S. S Mishra, Chemical Thermodynamics.
4. S. Glasstone: Thermodynamics for Chemists.
5. Prigogine: Introduction to Thermodynamics of Irreversible processes.
6. Chemical Kinetics, Keith J. Laidler, McGraw Hill.
7. Kinetics and Mechanisms, Arthur A. Frost and R. G.Pearson.
8. Chemical Statistics and Kinetics of solutions, E. A. Huges.

M.Sc. Chemistry (1st Sem.)
MSc/Chem/1/CC3
Organic Chemistry-I

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course Outcomes:

- CO1 Describe reaction intermediates, energy profile diagrams and establish mechanism of organic reaction simultaneously understand effect of structure on reactivity and application of Hammett /Taft equations, Curtin-Hammett principles, Hammond postulates in theoretical treatment of organic reactions.
- CO2 Understand mechanistic details of different types of aliphatic nucleophilic substitution reactions and factors affecting them and the terminology involved therein.
- CO3 Understand mechanistic details of different types of and factors affecting aliphatic nucleophilic substitution reactions and the terminology involved therein.
- CO4 Know mechanistic details of different types of elimination reactions, Saytzeff and Hoffman rules and application of these in prediction of product formation in various elimination reactions.
- CO5 Master stereo-chemical terms, inter-convert stereo-structural formulae of organic molecules, analyze configurations, create stereo-structures and correlate configuration by applying the concept of chemical correlation.
- CO6 Describes stability of different configurations and conformations of acyclic and cyclic organic compounds, sugars, decalins.
- CO7 Describe the concepts of prochirality, topicity related terms, asymmetric synthesis, its main categories vis-à-vis application of Cram's, Prelog and Horeaus rule, Felkin Ahn Model.
- CO8 Understand the concept of aromaticity and explain examples.

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UNIT I

Reaction Mechanism: Structure and Reactivity

Types of mechanisms, Types of reactions, Thermodynamically and kinetically controlled reactions, Effect of structure on reactivity, Resonance and field effects, Steric effect, and quantitative treatment: The Hammett equation and linear free energy relationship, Substituent (σ) and reaction constants (ρ). Taft equation, Hammond's postulates, Curtin-Hammett principle, Potential energy diagrams, transition states and intermediates.

Methods of determining reaction mechanisms.

Generation, structure, stability, and reactivity of carbocations, carbanions, carbenes and nitrenes.

UNIT-II

Aliphatic Nucleophilic Substitution: The SN_2 , SN_1 , SET Mechanisms; Nucleophilic substitution at an allylic, aliphatic trigonal and a vinylic carbon.

The limiting cases of SN_1 and SN_2 reactions, detailed mechanistic description and border line mechanisms, Nucleophilicity and solvent effects, Competition between nucleophilicity and basicity, Ambident nucleophiles, Hard and soft nucleophiles and electrophiles, Leaving group

effects, Steric and other substituent effects on substitution and ionization rates, Stereochemistry of nucleophilic substitution, SN_i , SN_i' , SN_1 , SN_1' , SN_2 and SN_2' mechanisms.

Mechanism of Elimination Reactions

The E_1 , E_{1cB} and E_2 mechanism, Orientation Effects in elimination reactions, Saytzeff and Hoffman rules, Stereochemistry of E_2 elimination reaction and eclipsing effects in E_2 eliminations. Dehydration of alcohols, Elimination not involving C–H bonds, Pyrolytic eliminations.

UNIT-III

Stereochemistry-I

Chiral Molecules, Symmetry elements, D-L, R-S, E-Z, and threo & erythro nomenclature, Interconversion of Fischer, Newman, Sawhorse and Flying wedge formulae, Conformational analysis, Enantiomerism and diastereomerism of simple, cyclic (chair and boat configuration) and acyclic systems., Optical isomerism in allenes, biphenyls (atropisomerism), spiranes. Stereochemistry of decalins, Conformation of sugars.

UNIT-IV

Stereochemistry-II

Elementary ideas about stereochemistry of tertiary amines, quaternary salts, sulphur and phosphorous compounds.

Stereospecific and stereoselective reactions, Concept of prostereo-isomerism and chiral synthesis, Elementary idea of principle categories of asymmetric synthesis, Cram's rule and its modification, Prelog rule, Horeaus rule, Felkin Ahn Model.

Aromaticity

Concept of aromaticity, non-aromaticity, anti-aromaticity, homoaromaticity, and psuedo-aromaticity. Aromaticity in charged rings, Huckel-Mobius method for determining aromatic, non-aromatic and anti-aromatic character of annulenes having various π -electron systems.

Mapping of Paper No. MSc/Chem/1/CC3

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	--	--	S	S	S	S
CO2	S	S	S	S	S	S	--	M	S	S	S	S
CO3	S	S	S	S	S	S	--	M	S	S	S	S
CO4	S	S	S	S	S	S	--	M	S	S	S	S
CO5	S	S	M	S	M	S	M	M	S	S	S	S
CO6	S	S	S	S	S	S	--	M	S	S	S	S
CO7	S	S	S	S	S	S	--	M	S	S	S	S
CO8	S	S	M	S	M	S	M	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Advanced Organic Chemistry: Reactions, Mechanism and Structure, Jerry March, John Wiley.
2. A guidebook to Mechanism in Organic Chemistry, Peter Sykes.
3. Structure and Mechanism in Organic Chemistry, C. K. Ingold.

4. Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner.
5. Stereochemistry of Organic Compounds, D. Nasipuri.
6. Stereochemistry of Organic compounds, P. S. Kalsi.
7. Stereochemistry of Carbon compounds, E. L. Eliel.
8. Mechanism and Theory in Organic Chemistry, Lowry and Richardson.
9. Advanced Organic Chemistry, F. A. Carey and R. J. Sundberg.
10. Organic Chemistry, T.W.G. Solomon, W.B. Fryhl and S.A. Snyder, Wiley.
11. Reaction Mechanism in Organic Chemistry, S. M. Mukherji and S. P. Singh, Macmillan.

M.Sc. Chemistry (1st Sem.)
MSc/Chem/1/NC1
Mathematics for Chemists

NC
Time: 2 Hrs.

Total Marks = 50
40 (EM) + 10 (IA)

Course Outcomes:

- CO1 Explain definitions of vectors, representation and properties of vectors.
- CO2 Perform vector mathematical operations.
- CO3 Explain scalar and vector products of vectors.
- CO4 Describe the definition and properties of matrices and determinants.
- CO5 Demonstrate matrix mathematics.
- CO6 Apply and analyze linear equations using matrices.
- CO7 Describe rules of differentiation and be able to find out the derivative of a function by applying various methods of differentiation.
- CO8 Describe rules and methods of integration.
- CO9 Perform integration between limits and apply in chemistry.

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UNIT – I

Vectors

Definition and its properties, Examples of scalar and vectors, addition and subtraction of vectors, vector addition by the method of triangles, resolution of vectors into rectangular components, addition of vectors by components, multiplication and differentiation of vectors, scalar and vector product.

Matrices and Determinants

Definition of matrix, types of matrices, viz. row matrix, column matrix, null matrix, equal matrix, square matrix, diagonal matrix. Addition, subtraction and multiplication by a number, matrix multiplication (order of matrix being 3). Transpose and adjoint of matrix, elementary transformation, Definition of determinant, properties of determinants, evaluation of determinants, solution of linear equations using determinants.

UNIT – II

Differential Calculus

Differentiation of standard functions, Theorems relating to the derivative of the sum, difference, product and quotient of functions, Derivative of function of a function (Chain Rule), Derivative of trigonometric & trigonometric composite functions (chain rule), Inverse trigonometric functions, Logarithmic and exponential functions, Logarithmic differentiation.

Graphical Representation of Equations

Rectangular coordinates, straight lines, slope and intercept of the equation, slope and point equation, two-point equation, parallel lines, points of intersection, distance between two points, change of origin. Examples from problems in chemistry.

Integral Calculus

Integral theory, basic rules of integration, methods of integration, viz. algebraic simplifications, integration by substitution, integration by parts, integration by partial fractions, integration between limits, curve sketching, integral as area. Illustration of application in chemistry.

Mapping of Paper No. MSc/Chem/1/NC1

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	M	S	S	M	S	S	S	S
CO2	S	S	S	S	M	S	S	M	S	S	S	S
CO3	S	S	S	S	M	S	S	M	S	S	S	S
CO4	S	S	S	S	M	S	S	M	S	S	S	S
CO5	S	S	S	S	M	S	S	M	S	S	S	S
CO6	S	S	S	S	M	S	S	M	S	S	S	S
CO7	S	S	S	S	M	S	S	M	S	S	S	S
CO8	S	S	S	S	M	S	S	M	S	S	S	S
CO9	S	S	S	S	M	S	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Mathematical Preparation for Physical Chemistry, F. Daniels, McGraw Hill.
2. Mathematical Preparation for General Physics, J.B. Marian, R.C. Davidson Saunder Company.
3. Mathematical Methods for Science Students, G. Stephemen, ELBS.
4. Chemical Thermodynamics, C.E. Reid, Mc Graw Hill.

M.Sc. Chemistry (1st Sem.)
MSc/Chem/1/NC2
Biology for Chemists

NC
Time: 2 Hrs.

Total Marks = 50
40 (EM) + 10 (IA)

Course outcomes:

- CO1 Describe and draw the prokaryotic and eukaryotic cell Structure, metabolic processes occurring in cell. Able to discuss the Carbohydrate metabolism-glycolysis, Kreb's cycle, glycogenolysis, glycogenesis pentose phosphate pathway and gluconeogenesis.
- CO2 Demonstrate the Structure and functions of important derivatives of monosaccharides like glycosides, deoxy sugars, myoinositol, structural polysaccharides - cellulose and chitin. Storage polysaccharides-starch and glycogen.
- CO3 Analyze the structure and functions of fatty acids, triacylglycerols, β -oxidation of fatty acid, Fluid mosaic mode of cell membrane.
- CO4 Describe the concept of the amino acids, peptides and proteins. Able to describe the primary, secondary structure of proteins and forces responsible for holding these structures.
- CO5 Identifies enzymatic and chemical cleavage of polypeptide chain, sequencing of amino acids in a polypeptide segment, concept of denaturation of proteins.
- CO6 Describe and draw the Structure of nucleotides, nucleosides, DNA (Watson-Crick model) RNA and their conformation.

Note for the paper setter: The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions selecting at least one question from each unit.

UNIT – I

Cell Structure and Metabolism

Structure of prokaryotic and eukaryotic cells, intracellular organelles and their functions, comparison of plant and animal cells. Overview of metabolic processes - catabolism and anabolism. ATP - the biological energy currency. Carbohydrate metabolism: glycolysis and Kreb's cycle.

Carbohydrates

Structure and biological functions of important monosachharides (excluding detailed conformational analysis) and derivatives of monosaccharides like glycosides, deoxy sugars, myoinositol, amino sugars-N-acetylmuramic acid. Disaccharides- sucrose, lactose and maltose. Structure and biological functions of Structural polysaccharides (cellulose and chitin) and Storage polysaccharides (starch and glycogen).

UNIT – II

Lipids

Fatty acids, essential fatty acids, structure and functions of triacylglycerols. Lipid bilayers, Fluid mosaic model of membrane structure. Lipid metabolism - β -oxidation of fatty acids.

Amino-acids, Peptides and Protein

Peptide bond, Chemical and enzymatic hydrolysis of proteins to peptides, Secondary structure of proteins- α -helix, β -sheet, forces responsible for holding the secondary structures of proteins. Denaturation of Proteins.

Nucleic Acids and Genetic Code

Structure and functions of nucleotides, nucleosides, DNA (Watson-Crick model, Chargaff's rules) and RNA (m-RNA, r-RNA and t-RNA).

Genetic code and its characteristics.

Mapping of Paper No. MSc/Chem/1/NC2

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO 1	S	S	S	S	S	S	M	S	S	S	S	S
CO 2	S	S	S	S	S	S	M	S	S	S	S	S
CO 3	S	S	S	S	S	S	M	S	S	S	S	S
CO 4	S	S	S	S	S	S	M	S	S	S	S	S
CO 5	S	S	S	S	S	S	M	S	S	S	S	S
CO 6	S	S	S	S	S	S	M	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Principles of Biochemistry, A. L. Lehninger, Worth Publishers.
2. Biochemistry, L. Stryer, W.H. Freeman.
3. Biochemistry, J. David Rawn, Neil Patterson.
4. Biochemistry, Voet and Voet, John Wiley.
5. Outlines of Biochemistry, E. E. Conn and P. K. Stumpf, John Wiley.

M.Sc. Chemistry (1st Sem.)
MSc/Chem/1/CC4
Inorganic Chemistry Practical-I

Credits-4

Time: 8 Hrs./week

Max. Marks: 100

Course outcomes:

- CO1 Explains the basic concept about qualitative analysis.
CO2 Describes the concept of quantitative analysis and its application.
CO3 Separate and quantify the presence of two metal ions in a solution.
CO4 Prepares mentally to face viva-voce.

Syllabus –

1. Qualitative Analysis

Identification of rare earth cations including less familiar elements by spot tests assisted by group analysis (6 cations).

2. Quantitative Analysis

Separation of the metal ions and determination of any one of them using volumetric/ gravimetric methods: Cu-Ni, Cu-Zn, Cu-Al, Fe-Ni and analysis of alloys.

Experiment & Written part

Marks: 70

Lab record

Marks: 10

Viva-voce

Marks: 20

Note: The evaluation will be done by external and internal examiners.

Mapping of Paper No. MSc/Chem/1/CC4

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	M	S	M	M	M	S	S	S	M	S
CO2	S	S	S	S	M	S	S	S	S	S	S	S
CO3	S	S	S	S	S	S	S	S	S	S	S	S
CO4	S	S	S	S	M	M	W	S	M	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. A textbook of Qualitative Inorganic Chemistry, A. I. Vogel.
2. A Textbook of Macro and Semi-micro–Quantitative Analysis, A. I. Vogel, Orient Longman.
3. A Vogel's Textbook of Quantitative Inorganic Analysis, J. Bassett, R. C.
4. Denney, G. B. Jaffery and J. Menaham, Longman, London.

M.Sc. Chemistry (1st Sem.)
MSc/Chem/1/CC5
Physical Chemistry Practical-I

Credits-4

Time: 8 Hrs./week

Max. Marks: 100

Course outcomes:

- CO1 Determine extent of adsorption and verify Freundlich and Langmuir adsorption isotherms.
- CO2 Determine the molecular weight of a given substance i.e., naphthalene and biphenyl by Rast method.
- CO3 Understand the concept of surface tension and its determination for various organic solvents.
- CO4 Know the concept of viscosity and its determination.
- CO5 Determine the viscosity averaged molar mass of a polymer.
- CO6 Determine the partition coefficient of a solute between two immiscible solvents by using distribution law.

Syllabus -

Adsorption

1. To determine the adsorption isotherms of acetic acid from aqueous solution by charcoal.
2. To study the adsorption of I₂ from alcoholic solution by charcoal.
3. To investigate the adsorption of oxalic acid from aqueous solution by activated charcoal and to examine the validity of Freundlich & Langmuir's adsorption isotherms.

Molecular Weight of Polymers

1. To determine the molecular weight of a given polymeric solution by viscosity method.
2. To determine the molecular weight of a given substance i.e., naphthalene and biphenyl by Rast method.

Surface Tension/Interfacial Tension

1. To find surface tension/interfacial tension between two immiscible liquids.
2. To determine surface tension of given liquid like CCl₄ by number drop method using stalagmometer.
3. To determine the percentage composition of a given mixture of two liquids say CCl₄ and Toluene by surface tension method.

Viscosity

1. To find viscosity of unknown liquids by Ostwald's viscometer method.
2. To determine the percentage composition of given unknown mixture by viscosity method.
3. To determine the coefficient of viscosity of a liquid such as ethyl acetate with the help of Ostwald viscometer.

Distribution Law

1. To study the distribution of benzoic acid between benzene and water at room temperature and show that benzoic acid dimerizes in benzene.
2. To determine the distribution coefficient of I_2 between organic liquid and water at a given temperature.
3. Study of distribution coefficient of succinic acid between organic liquid and H_2O at a given temp.

Note: Any experiment can be introduced or deleted in the practical class based on availability of instruments/chemicals.

Experiment & Written part

Marks: 70

Lab record

Marks: 10

Viva-voce

Marks: 20

Note: The evaluation will be done by external and internal examiners.

Mapping of Paper No. MSc/Chem/1/CC5

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	M	S	S	S	S	S
CO2	S	S	S	S	S	S	M	S	S	S	S	S
CO3	S	S	S	S	S	S	M	S	S	S	S	S
CO4	S	S	S	S	S	S	S	S	S	M	S	S
CO5	S	S	S	S	S	S	S	S	S	S	S	S
CO6	S	S	S	S	S	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. Zindley's Practical Physical Chemistry, B. P. Levitt, Longman.
2. Experimental Physical Chemistry, R. C. Das, B. Behara, Tata McGraw Hill.
3. Practical Physical Chemistry, A. M. James, F. E. Prichard.
4. Practical Physical Chemistry, S. R. Palit, S. K. De.
5. Experiments in Physical Chemistry, Shoemaker and Gailand, McGraw Hill.
6. Practical Physical Chemistry, B. Viswanathan, P. S. Raghavan.

M.Sc. Chemistry (1st Sem.)
MSc/Chem/1/CC6
Organic Chemistry Practical-I

Credits-4

Time: 8 Hrs./week

Max. Marks: 100

Course outcomes:

- CO1 Demonstrate the basic principle and apply the techniques of separation of binary organic mixture.
- CO2 Analyze qualitatively the presence of extra elements and functional groups in the binary organic mixture along with understanding of chemical reaction involved.
- CO3 Differentiate between aromatic/aliphatic, saturated/unsaturated, hydrocarbon/heterocycles.
- CO4 Understand and develop the capabilities of preparing derivatives of different organic compounds bearing various organic functionalities.
- CO5 Identify the significance of melting point, mixed melting point, boiling point in identification of organic compounds.
- CO6 Demonstrate the basic laboratory & purification techniques in organic chemistry.
- CO7 Develop the skill of performing experiments and analyzing data to evaluate results.
- CO8 Develop the ability to compile interpreted information in the form of lab record.
- CO9 Prepare mentally and academically to face viva-voce.

Syllabus –

Demonstrations of Laboratory & Purification techniques-Refluxing, Purification of solvents and reagents using various techniques like crystallization, distillation, fractional distillation, Drying of solvents, sublimation etc.

Demonstrations of separation of solid-solid binary mixtures: using H₂O, HCl, NaOH, NaHCO₃, Ether or other reagent as may be necessary along with required conditions for their use.

Systematic identification of mixtures of pure organic compounds: separation and identification of simple binary mixtures having acidic, basic and neutral components. Preparation of their derivatives, determination of b.p./m.p. for components and their derivatives.

Note: Any other experiment be added/substituted as per requirement and availability of chemicals.

Experiment & Written part

Marks: 70

Lab record

Marks: 10

Viva-voce

Marks: 20

Note: The evaluation will be done by external and internal examiners.

Mapping of Paper No. MSc/Chem/1/CC6

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	M	S	M	S	M	M	S	S	S	M
CO2	S	S	M	S	M	S	S	M	S	S	S	S

CO3	S	S	M	S	M	S	S	M	S	S	S	S
CO4	S	S	M	S	M	S	S	M	S	S	S	S
CO5	M	M	S	S	W	M	M	M	S	S	S	M
CO6	S	S	S	S	S	S	M	S	S	S	S	S
CO7	M	S	S	S	S	S	W	W	S	S	S	S
CO8	M	M	M	M	M	S	W	W	S	S	S	S
CO9	S	S	S	S	M	M	W	S	M	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. A Handbook of Organic Analysis Qualitative and Quantitative by H.T. Clarke and revised by B. Maynes, Edward Arnold (Pub.) Ltd. London, 1975).
2. Systematic Qualitative Organic Analysis by H. Middleton, Edward Arnold (Publishers) Ltd., London 1959.
3. A Textbook of Practical Organic Chemistry including Qualitative Organic Analysis by Arthur I. Vogel, Longmans Green and Co., Ltd., London 1966.
4. Elementary Practical Organic Chemistry by Arthur I. Vogel, CBS Publishers & Distributors.
5. Vogel's Textbook of Practical Organic Chemistry by B.S. Furners et. al., Longman Group Ltd.

M.Sc. Chemistry (2nd Sem.)
MSc/Chem/2/CC7
Inorganic Chemistry-II

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Understand the MO Diagram of Diatomic molecules, especially of Carbonyl.
- CO2 Describe Magnetic and IR studies of Carbonyl complexes.
- CO3 Know the HSAB concept with their applications.
- CO4 Understand Mulliken symbols and describe applications of group theory in analysis of molecular structure of different molecules.
- CO5 Know the concepts of nuclear and radiochemistry and discuss the structure and functioning of various counters use in radiochemistry.
- CO6 Describe the radiotracer technique, activation analysis and its applications in various aspects.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Introduction to Metal Complexes

Metal carbonyls, M.O. diagram of CO, nitrosyls and dinitrogen complexes, Orbital diagrams of bi and trinuclear carbonyls, Semi-bridging in metal carbonyls and nitrosyls. Magnetic, IR evidence of their structures, π - acidity and softness in terms of HSAB principle, Symbiosis.

UNIT-II

Applications of group Theory

Mulliken symbols, Application of group theory in stereochemistry, Molecular vibrations-symmetry aspects of molecular vibrations, selection rules for vibrational absorption, complementary character of IR and Raman spectra (mutual exclusion principle), Application of group theory in analysis of vibrational spectra and prediction of IR and Raman active vibrational modes (H_2O , NH_3 , CH_4 , SF_6).

UNIT III

Nuclear Chemistry-I

Fundamental particles of nucleus (nucleons): Concept of nuclides, representation of nuclides. Isobars and isotopes (specific examples). The size concept of nucleus and atom. The possible forces operating between neutron-neutron, proton-proton and neutron-proton, The magnitude of nuclear forces (short range), Qualitative idea of the stability of nucleus (n/p ratio), Shell and liquid drop models (qualitative ideas), Natural and artificial radioactivity, Disintegration series; Radioactive disintegration rate, Half -life and average life.

UNIT-IV

Nuclear Chemistry-II

Nuclear binding energy, Mass defect, Einstein's mass energy relation, Calculation of mass defect and binding energy, Artificial transmutation, Nuclear reactions: Nuclear fissions, fusion and spallation, Radioactive isotopes, Tracer chemistry, Carbon dating, Some typical applications in industry, agriculture, medicine and bio-chemistry: Therapeutic uses of isotopes. Basic principles and types of nuclear reactors, Scintillation counters, Gieger Muller Counter. Radioactive waste disposal.

Mapping of Paper No. MSc/Chem/2/CC7

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	M	S	S	M	S	S	S	S
CO2	S	S	S	S	M	S	S	M	S	S	S	S
CO3	S	S	S	S	M	S	S	M	S	S	S	S
CO4	S	S	S	S	S	S	M	S	S	S	S	S
CO5	S	S	S	S	M	S	S	M	S	S	S	S
CO6	S	S	S	S	M	S	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Advanced Inorganic Chemistry, F. A Cotton & G. Wilkinson, 4th Edition.
2. Inorganic Chemistry, J. E. Huheey, 3rd Edition.
3. Inorganic Electronic Spectroscopy, A. B. P. Lever.
4. Introduction to Magnetochemistry, A. Earnshaw.
5. Chemical Application of group theory, F. A. Cotton.
6. Introduction to Ligand Fields, B. N. Figgis.
7. Essentials of Nuclear Chemistry, H. J. Arinikar, 4th edition.
8. Radiochemistry and Nuclear Chemistry, G. Choppin, J. Liljenzin and J. Rydberg.

M.Sc. Chemistry (2nd Sem.)
MSc/Chem/2/CC8
Physical Chemistry-II

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course Outcomes:

- CO1 Discuss scope of irreversible thermodynamics.
- CO2 Explain phenomenological laws.
- CO3 Describe specific laws of entropy production.
- CO4 Discuss coupled reactions & unimolecular reactions.
- CO5 Determination of partial molar volume, thermodynamic functions of mixing.
- CO6 Knowledge about fundamental concepts of phase equilibrium and their applications in studying one and two-component systems including eutectics.
- CO7 Understand the concept of fugacity and its determination.
- CO8 Basic information of photochemistry and laws of photochemistry.
- CO9 Learn about Phosphorescence and fluorescence.
- CO10 Discuss Debye-Hückel theory of ion-ion interaction and activity coefficient, its applicability, limitations and its modification for finite-sized ions, effect of ion-solvent interaction on activity coefficient.
- CO11 Derive D-H-O equation - its applicability and limitations, Pair-wise association of ions (Bjerrum treatment) and its modifications for ion-pair formation.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Non-Equilibrium Thermodynamics

General theory of non-equilibrium processes, Entropy production and entropy flow; Thermodynamic criteria for non-equilibrium states, Entropy production in heat flow, Mass flow, Electric current, Chemical reactions, Saxen's relation, Onsager's reciprocity relation, Thermomolecular pressure difference, Electro kinetic phenomenon, Coupled reactions.

Unimolecular Reactions

Dynamics of unimolecular reactions (Lindemann-Hinshelwood and Rice-Ramsperger-Kassel-Marcus [RRKM] theories of unimolecular reactions.

UNIT-II

Partial molar quantities- Chemical potential and Gibbs-Duhem equation, variation of chemical potential with temperature and pressure, chemical potential for an ideal gas, chemical potential of ideal gas mixture (s), determination of partial molar volume, thermodynamic functions of mixing (free energy, entropy, volume and enthalpy), concept of escaping tendency and chemical potential.

Phase rule, Fugacity and Activity Coefficient

Phase Rule, Phase diagram for two completely miscible component systems. Concepts of fugacity, fugacity of gases and its determination. Activity and activity coefficient, choice of standard states, dependence of activity on temperature and pressure, determination of activity (i) measurement of vapour pressure, (ii) distribution of solute between two immiscible solvents and (iii) emf measurement.

UNIT-III

Photochemistry

Laws of photochemistry, Frank Condon Principle, quantum yield, quantum efficiency, Jablonskii diagram, photophysical processes, phosphorescence and chemiluminescence, Kinetics of photophysical processes, relaxation time,

emission spectra, environment effect on absorption and emission spectra, Wigner's spin conservation rule. Modes of decay of excited states, quenching of fluorescence, delayed fluorescence, Stern–Volmer equation. Excimer and exciplex formation and decay.

Techniques for the study of transient species in photochemical reactions. Applications of Lasers in photochemical kinetics.

UNIT-IV

Electrochemistry

Debye-Hückel theory of ion-ion interaction and activity coefficient, applicability and limitations of Debye-Hückel limiting law, its modification for finite-sized ions, effect of ion-solvent interaction on activity coefficient. Physical significance of activity coefficients, mean activity coefficient of an electrolyte.

Debye-Huckel-Onsager (D-H-O) theory of electrolytic conductance, Debye-Falkenhagen effect, Wein effect. D-H-O equation - its applicability and limitations, Pair-wise association of ions (Bjerrum treatment), Modification of D-H-O theory to account for ion-pair formation.

Mapping of Paper No. MSc/Chem/2/CC8

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S	S	S	S	S
CO3	S	S	S	S	M	S	S	M	S	S	S	S
CO4	S	S	S	S	M	S	S	M	S	S	S	S
CO4	S	S	S	S	M	S	S	M	S	S	S	S
CO5	S	S	S	S	M	S	S	M	S	S	S	S
CO6	S	S	S	S	M	S	S	M	S	S	S	S
CO7	S	S	S	S	M	S	S	M	S	S	S	S
CO8	S	S	S	S	M	S	S	M	S	S	S	S
CO9	S	S	S	S	M	S	S	M	S	S	S	S
CO10	S	S	S	S	M	S	S	M	S	S	S	S
CO11	S	S	S	S	M	S	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Non-equilibrium Thermodynamics, C. Kalidas.
2. Physical Chemistry, P.W. Atkins, Oxford University Press.
3. Physical Chemistry, G.W. Castellan, Narosa.
4. Electrochemistry, S. Glasstone, Affiliated East-West Press.
5. Chemical Physics, J.C. Slater.

M.Sc. Chemistry (2nd Sem.)
MSc/Chem/2/CC9
Organic Chemistry-II

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Describe the concept of aliphatic electrophilic substitution reaction and illustrate the aliphatic electrophilic substitutions mechanisms - SE_2 , SE_1 .
- CO2 Understands and illustrate the neighbouring group participation, classical and non-classical carbocation and describe the role of non-bonding electrons, sigma, and π -bonds in NGP.
- CO3 Describes the concept of carbocations rearrangements and migratory aptitudes.
- CO4 Discuss the concept of Aromatic Nucleophilic Substitution by diazonium salts, arynes.
- CO5 Describes the mechanisms of Aromatic Electrophilic Substitution and their applications.
- CO6 Discuss about the generation, structure, stability, and reactivity of free radicals.
- CO7 Know mechanistic details of different types of elimination reactions, Saytzeff and Hoffman rules and application of these in prediction of product formation in various elimination reactions.
- CO8 Able to draw the mechanisms of addition to alkenes and alkynes.
- CO9 Describes the reactivity of carbonyl compounds in various reactions & addition to carbonyl group of aldehydes, ketones and acids.
- CO10 Describes various name reactions related to ketones and aldehydes.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Aliphatic Electrophilic Substitution

Bimolecular mechanisms: SE_2 and SE_1 . The SE_1 mechanism, Electrophilic substitution accompanied by double bond shifts. Effect of substrates, Leaving group and solvent polarity on the reactivity.

Neighbouring group participation and carbocation rearrangements

Anchimeric assistance, Neighbouring Group Participation by non-bonding electrons, sigma and σ -bonds and π bonds, Classical and non-classical carbocations, Carbocation rearrangements: Migratory aptitudes, Wagner-Meerwein rearrangement, Pinacol-pinacolone rearrangement, Dienone-phenol rearrangement, Demjanov rearrangement, Tiffeneau-Demjanov ring expansion.

UNIT-II

Nucleophilic Aromatic Substitution

Mechanism of Nucleophilic substitution in aromatic systems via diazonium ions, by addition-elimination and elimination-addition mechanism (involving arynes); von-Richter rearrangement, Sommelet-Hauser, Stevens rearrangements.

General aspects of generation, structure, stability and reactivity of arynes.

Aromatic Electrophilic Substitution

Theoretical treatment of aromatic substitution reactions, the arenium ion mechanism, orientation and reactivity, Structure-reactivity relationship in mono substituted benzene ring, Orientation in other ring systems, Vilsmeier-Haack reaction, Bischler - Napieralski reaction, Pechmann reaction, Houben-Hoesch reaction, Gattermann-Koch reaction.

UNIT-III

Free Radicals: General aspects of generation, structure, stability and reactivity of free radicals, Types of free radical reactions, free radical substitution mechanism, mechanism at an aromatic substrate, The effect of solvents on reactivity. Halogenations including Allylic halogenation (NBS), auto-oxidation, coupling of alkynes and arylation of aromatic compounds by diazonium salts, Sandmeyer reaction & Hunsdiecker reaction.

Addition to C-C multiple bond

Mechanism of addition of hydrogen halide, H₂O, halogens, HOX and mercuric salt to alkenes and alkynes. Hydroboration of acetylenes, Nucleophilic addition to alkenes, formation of C-C bonds via organoboranes.

UNIT-IV

Addition to Carbon-Hetero Multiple Bonds

General mechanistic considerations and reactivity, Hydration and Addition of Alcohols to Aldehydes, Ketones and Acids. Addition -Elimination Reactions of Ketones and Aldehydes, Reactivity of carbonyl compounds towards Addition.

Mechanism of LAH reduction of carbonyl compounds, acids & esters. Addition of Grignard reagents, organozinc and organolithium reagents to carbonyl compounds.

Mechanism of condensation reactions involving enolates – Wittig reaction, Aldol, Knoevenagel, Claisen, Mannich, Benzoin, Perkin, Stobbe reactions, Reformatsky reaction, Michael addition reaction, Dieckmann reaction, Robinson annulation reaction, Cannizzaro reaction, Hydrolysis of esters and amides.

Mapping of Paper No. MSc/Chem/2/CC9

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	M	M	M	S	M	M	S	S	S	S
CO2	S	S	M	M	M	S	M	M	S	S	S	S
CO3	S	S	M	S	M	S	M	M	S	S	S	S
CO4	S	S	M	S	M	S	M	M	S	S	S	S
CO5	S	S	M	S	M	S	M	M	S	S	S	S
CO6	S	S	M	S	M	S	M	M	S	S	S	S
CO7	S	S	M	S	M	S	M	M	S	S	S	S
CO8	S	S	M	S	M	S	M	M	S	S	S	S
CO9	S	S	M	S	M	S	M	M	S	S	S	S
CO10	S	S	M	S	M	S	M	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Advanced Organic Chemistry: Reactions, Mechanisms and Structure, Jerry March.
2. A Guidebook to Mechanism in Organic Chemistry, Peter Sykes.
3. Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner.
4. Organic Chemistry, Benjamin/Cummings, 2nd edition.
5. Organic Chemistry, McMurry, 2nd edition.
6. Organic Chemistry, Solomons, 5th edition.
7. Organic Chemistry, Vollhard, W. H. Freeman.
8. Name Reactions: A Collection of Detailed Mechanisms and Synthetic Applications by Jie Jack Li from Springer.
9. Reaction Mechanism in Organic Chemistry, S. M. Mukherji and S. P. Singh, Macmillan.

M.Sc. Chemistry (2nd Sem.)
MSc/Chem/2/SEC1
Computer for Chemists

Credits-2
Time: 2 Hrs.

Total Marks = 50
40 (EM) + 10 (IA)

Course outcomes:

- CO1 Describe about the basic functioning of computer, memory devices, storage devices and different generations of computer.
- CO2 Get the knowledge of MS-word and apply it.
- CO3 Demonstrate how to use MS-Excel, MS-Power Points & making slides and how to apply the formulas.
- CO4 Learn about the presentations, chem draw tools and Plotting tools.

Note for the paper setter: The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions selecting at least one question from each unit.

UNIT I

Introduction to Computers and Computing

Basic structure and functioning of computers with a PC as an illustrative example. Memory, I/O devices, secondary storage. Computer languages. Different types of software, Algorithms and flow charts, Computer Generations.

Word Processing

Page setting, formatting a document, searching in document, Bullets and Numbering, Text wrapping, Page break, Insert: table, picture, shapes, smart art, water mark, chart, hyperlink, bookmark, cross reference, header, footer, end note, foot note, page number, text box, table of contents, mathematical and other symbols.

UNIT-II

Spreadsheet

Worksheet and Workbooks, creating a worksheet, Cell formatting, Text wrapping, Merge and Centre, Table formatting, Sorting, Filtering, Searching, insert picture, shapes, graphs, chart, symbols, applying formula and function, Importing data from other sources.

Power Point Presentation

Create new slides, setting layout of new slide, insert slide, delete slide, insert table, pictures, shapes, chart, hyperlink, header, footer, slide number, text box, signature and line, data and time, mathematical and other symbols, sound and video, transition and animations, set and present a slide show.

Practical purpose-

1. Microsoft package including MS-Word, MS- Power Point, MS-Excel.
2. Plotting/Drawing software: Introduction to Chem Draw & Origin Software & their basic applications in Chemistry: - Linear Plot & Fit, drawing of simple organic molecules & Prediction of $^1\text{H-NMR}$ spectra of some organic molecules.

Note- IA will be given based on practical performance of the students. No external assessment for the practical purpose. Only theory paper will be sety from the two units and no practical paper will be conducted.

Mapping of Paper No. MSc/Chem/2/SEC1

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	M	W	S	W	W	S	W	W	W	W	W
CO2	S	S	S	S	M	W	S	W	W	W	S	M
CO3	S	S	S	S	M	W	S	W	W	W	S	M
CO4	S	S	S	S	M	W	S	W	W	W	S	M

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Computers and Common Sense, R. Hunt and J. Shelley, Prentice Hall
2. Computational Chemistry, A.C. Norris.
3. An Introduction to Digital Computer Design, V. Rajaraman, T. Radhakrishnan.
4. Computer fundamentals, P.K Sinha and Priti Sinha.
5. A complete guide to Computer Fundamentals, Sudipto Das, Science Press.
6. Computer Fundamentals, Anita Goel, Pearson Education.
7. Computer Fundamentals and Information Technology, Ramesh Bangia, Firewall Media.
8. Computer Fundamentals and Applications, Ashok Arora, Vikas Publishing.

CO2	S	S	S	S	S	S	S	S	S	S	S	S
CO3	S	S	S	S	S	S	S	S	S	S	S	S
CO4	S	S	S	S	S	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. Inorganic Synthesis, Book Series Vol 5, Wiley.
2. Practical Inorganic Chemistry, G. Marr, B. W. Rockett Bull. Chem. Soc., Japan 29, (1956) 852.
3. J. Chem. Soc 84, (1962) 3404.
4. P. H. Merrell, F. L. Urbach, M. Arnold, J. Chem. Edu. 54(9), (1977) 580.
5. Practical Inorganic Chemistry: Preparations, reactions and instrumental methods, G. Pass, H. Sutcliffe, springer.

M.Sc. Chemistry (2nd Sem.)
MSc/Chem/2/CC11
Physical Chemistry Practical-II

Credits-4

Time: 8 Hrs./week

Max. Marks: 100

Course outcomes:

- CO1 Determine the molar refractivity of given compounds.
- CO2 Study and conduct experiments related to chemical kinetics for the determination of the order and rate constant of the reaction.
- CO3 Determine the solubility of an inorganic salts.
- CO4 Understand and master the fundamentals of potentiometric experiments.

Syllabus-

Refractometry

1. Determination of refractive index of simple organic liquids.
2. Variation of refractive index with composition for a mixture of two organic liquids.
3. To determine the molar refractivity of CH_3OH , CH_3COOH , $\text{CH}_3\text{COOC}_2\text{H}_5$ and CCl_4 and calculate the refractive equivalent of C, H and Cl atoms.
4. Find out molar refractivity of benzene, toluene, propyl alcohol, butyl alcohol etc. and $-\text{CH}_2-$ group of homologous series.

Chemical Kinetics

1. Determination of the rate constant of an ester catalysed by an acid or a base.
2. Study of a second order reaction.
3. Determine the velocity constant of hydrolysis of ethyl acetate using sodium hydroxide solution.

Solution Chemistry

1. To determine the solubility of an inorganic salt like KCl , NaCl , KNO_3 , NaNO_3 , K_2SO_4 etc. in water at different temperature and hence to obtain the solubility curve.
2. To determine the heat of solution of given substance like oxalic acid and benzoic acid by solubility method.

pH Metry

1. To determine the strength of strong acid versus strong base using a pH meter.
2. To determine the strength of weak acid versus strong base using a pH meter.
3. Determination of the strength of strong and weak acids in a given mixture using a pH meter.

Potentiometry

1. To determine the strength of strong acid versus strong base using a potentiometer.
2. To determine the strength of weak acid versus strong base using a potentiometer.
3. Determination of the strength of strong and weak acids in a given mixture using a potentiometer.
4. To prepare and test the standard reference electrode i.e., calomel electrode or silver chloride electrode.
5. Titrate Mohr's salt against KMnO_4 potentiometrically and carry out the titration in reverse order.

Note: Any experiment can be introduced or deleted in the practical class on the basis of availability of instruments/chemicals.

Experiment & Written part

Marks: 70

Lab record

Marks: 10

Viva-voce

Marks: 20

Note: The evaluation will be done by external and internal examiners.

Mapping of Paper No. MSc/Chem/2/CC11

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	M	-	S	S	S	S
CO2	S	S	S	S	S	S	M	-	S	S	S	S
CO3	S	S	S	S	S	S	M	-	S	S	S	S
CO4	S	S	S	S	S	S	M	-	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings

1. Zindley's Practical Physical Chemistry, B. P. Levitt, Longman.
2. Experimental Physical Chemistry, R. C. Das, B. Behara, Tata McGraw Hill.
3. Practical Physical Chemistry, A. M. James, F. E. Prichard, Longman.
4. Practical Physical Chemistry, S. R. Palit, S. K. De, Science Book agency.
5. Experiments in Physical Chemistry, Shoemaker and Gailand, McGraw Hill.
6. Practical Physical Chemistry, B. Viswanathan, P. S. Raghavan.

M.Sc. Chemistry (2nd Sem.)
MSc/Chem/2/CC12
Organic Chemistry Practical-II

Credits-4

Time: 8 Hrs./week

Max. Marks: 100

Course outcomes:

- CO1 Describes the concept of stepwise synthesis of a product and their purification.
- CO2 Explore various combinations of reactions that can be exploited to form a product.
- CO3 Perform experimentation and evaluate the results.
- CO4 Develops the ability to compile interpreted information in the form of lab record.
- CO5 Prepare mentally to face viva-voce.

Syllabus -

Preparations of Organic compounds involving one, two and three stages:

1. p-nitroacetanilide from aniline
2. p-bromoacetanilide from aniline
3. Anthranilic acid from phthalic anhydride
4. Eosin from phthalic anhydride
5. m-nitroaniline from Nitrobenzene
6. Sym-tribromobenzene from aniline
7. 2,4-dinitrophenylhydrazine from chlorobenzene
8. 2,5-dihydroxy acetophenone from hydroquinone
9. Benzanilide from Benzophenone
10. Any other multi step reaction as per requirement

Note: Purification after each step should preferably be done by using Recrystallization or by TLC.

Experiment & Written part

Marks: 70

Lab record

Marks: 10

Viva-voce

Marks: 20

Note: The evaluation will be done by external and internal examiners.

Mapping of Paper No. MSc/Chem/2/CC12

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	S	M	S	S	S	S
CO2	S	S	M	S	M	S	M	M	S	S	S	S
CO3	S	S	M	S	M	S	M	M	S	S	S	S
CO4	S	S	M	S	M	S	M	M	S	S	S	S
CO5	S	S	S	S	S	S	S	S	S	S	S	S
CO6	S	S	S	S	S	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. A Handbook of Organic Analysis Qualitative and Quantitative by H.T. Clarke and revised by B. Maynes, Edward Arnold (Pub.) Ltd. London, 1975).
2. Systematic Qualitative Organic Analysis by H. Middleton, Edward Arnold (Publishers) Ltd., London 1959.
3. A Textbook of Practical Organic Chemistry including Qualitative Organic Analysis by Arthur I. Vogel, Longmans Green and Co., Ltd., London 1966.
4. Elementary Practical Organic Chemistry by Arthur I. Vogel, CBS Publishers & Distributors.
5. Vogel's Textbook of Practical Organic Chemistry by B.S. Furners et. al., Longman Group Ltd.
6. Experiments in Organic Chemistry by Louis, F. Fieser, D.C. Heath and Company Boston, 1955.
7. Practical Organic Chemistry by Mann and Saunders.

M.Sc. Chemistry (3rd Sem.)

MSc/Chem/3/CC13

Cardinal Principles of Academic Integrity and Publications Ethics

Credits-2

Time: 2 Hrs.

Total Marks = 50

30 (EM) + 20 (IA)

Course outcomes:

CO1 Academic Integrity, Plagiarism (prevention and detection) and UGC regulations.

CO2 Research and Publications ethics and best practices.

Note for the paper setter: The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions selecting at least one question from each unit.

Unit I

Academic Integrity: Introduction, Academic Integrity Values- Honesty and Trust, Fairness and Respect, Responsibility and Courage, Violations of Academic Integrity-types and consequences, Plagiarism -definition, Plagiarism arising out of misrepresentation-contract cheating, collusion, copying and pasting, recycling, Avoiding Plagiarism through referencing and writing skills, UGC Policy for Academic Integrity and prevention, Some Plagiarism detection tools

Unit II

Research and Publication ethics: Scientific misconducts- Falsifications, Fabrication and Plagiarism (FPP), Publication ethics- definition, introduction and importance, Best practices/standard setting initiatives and guidelines-COPE, WAME etc., Violation of publication ethics, authorship and contributor-ship, Identification of publications misconduct, complains and appeals, Conflicts of Interest, Predatory publisher and journals.

Mapping of Paper No. MSc/Chem/3/CC13

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	M	S	M	S	W	M	S	S	S	S
CO2	S	M	S	S	M	S	W	S	S	M	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. MacIntyre A: A short History of Ethics, London (1967).
2. Chaddah P: Ethics in Competitive Research: Do not get scooped; do not get plagiarized. ISBN: 978-9387480865(2018).
3. National Academy of Sciences, National Academy of Engineering and Institute of Medicine; On being a Scientist: A guide to Responsible Conduct in research: Third Edition. National Academics press (2009).

4. Resnik D. B.: What is ethics in research & why is it important. National Institute of Environmental Health Sciences, 1-10(2011).
5. Beall J: Predatory publishers are corrupting open access, Nature, 489 (7415), 179(2012).
6. Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance ISBN: 978-81-939482-1-7(2019).
7. UGC regulations for Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutes (2018).
8. Ulrike Kestler, Academic Integrity, Kwantlen Polytechnic University.

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/CC14
Spectroscopy

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course Outcomes:

- CO1 Describes the basic concept of microwave spectroscopy and able to interpret the rotational spectra of rigid diatomic and polyatomic linear molecules and symmetric top molecules.
- CO2 Explains the principle of Vibrational spectroscopy and able to solve numerical problems.
- CO3 Know about NQR and ESR spectroscopy and illustrate their applications in chemistry.
- CO4 Discuss the Raman spectroscopy and its application in physical chemistry.
- CO5 Explains the principle of AAS and calculate percentage of alkali and alkaline earth metals.
- CO6 Understand the basic concept of reciprocal lattice related to X-ray crystallography and interpretation of powder X-ray diffraction patterns.
- CO7 Able to determine interplanar spacing for different crystal systems and structure factors for different types of lattices.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT I

Rotational (microwave) Spectroscopy

Rotational energies of linear molecules, Energy level populations, Merits and demerits of microwave spectroscopy, Rotational spectra of rigid linear molecules, non-rigid rotators. Determination of moment of inertia and bond length from rotational spectra, Relative intensities of spectral lines. Rotational spectra of non-linear molecules (brief mention).

Vibrational Spectroscopy

Harmonic and anharmonic Oscillators, Hooks law, vibrational energies of diatomic molecules, Absorption of radiations by molecular vibration. Vibrational energy levels, Selection rules, force constant, hot bands, Fundamental vibrational frequencies, Sampling techniques, Finger-print regions. Vibrations in polyatomic molecules.

UNIT-II

Nuclear Quadrupole Resonance Spectroscopy

Introduction, energies of quadrupole transitions, effect of magnetic field on the spectra, relationship between electric field gradient and molecular structure, applications, interpretations of structural information from NQR spectra.

Electron Spin Resonance Spectroscopy

Features of ESR spectra, Measurement technique, Hyperfine coupling in isotropic system, Anisotropic splitting.

Electron-electron interaction, g-value and factors affecting g-value in transition metal complexes, Zero-field splitting, Kramer's degeneracy, Spin hamilton, Linewidth in ESR. Application to p-benzoisoquinone, DPPH and pyrazine.

UNIT-III

Raman Spectroscopy

Polarization of light, Theories of Raman Effect, merits and demerits of Raman Spectroscopy. Pure rotational Raman spectra of linear molecules, Vibrational Raman spectra, selection rules, Rule of mutual exclusion. Factors affecting absorption frequencies. Interpretation and finger printing regions, Applications of Raman Spectroscopy.

Atomic Absorption Spectroscopy

General principles, resonance line, its natural width, Doppler effect, broadening due to pressure, Hollow cathode lamp. Application to alkali and alkaline earth metals.

UNIT-IV

X-Rays Crystallography

Use of X-ray diffraction to find atomic arrangements. Point groups, Space groups and unit cell. Concept of reciprocal lattice. Braggs law in reciprocal space. Combining waves to obtain an image, Elementary treatment of structure factor and fourier synthesis. Anomalous scattering and its effect.

Representation of structural results, Chirality and absolute structure, Packing in crystals, Thermal and photochemical reactions in solids state.

Mapping of Paper No. MSc/Chem/3/CC14

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	M	S	S	M	S	S	S	S
CO2	S	S	M	S	S	S	S	M	S	S	S	S
CO3	M	M	M	S	W	S	S	W	S	S	S	S
CO4	S	S	M	S	S	S	S	M	S	S	S	S
CO5	S	S	S	S	M	S	S	M	S	S	S	S
CO6	S	S	S	S	M	S	S	M	S	S	S	S
CO7	S	S	S	S	S	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings

1. Organic Spectroscopy, W. Kemp, ELBS, London.
2. Spectroscopic Methods in Organic Chemistry, D. H. Williams and I. Fleming.
3. Spectrometric Identification of Organic compounds, R. M. Silverstein and G. C. Bassler.
4. Molecular Spectroscopy, H. S. Randhawa.
5. Structural Methods in Inorganic Chemistry, E. A. V. Ebsworth, D. W. H. Rankin, S. Cradock.
6. Physical Methods in Chemistry, R. S Drago.
7. Fundamentals of Molecular Spectroscopy, C. N. Banwell.
8. Atomic Absorption Spectrometry, Bernhard Welz, Michael Sperling.

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/DSC1-I
Inorganic Chemistry Special-I

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Explain basic concepts of photochemistry viz photochemical laws, quantum yield, electronically excited states, lifetime –measurements.
- CO2 Describes the Energy dissipation by radiative and non-radiative processes along with Franck Condon principle, photochemical kinetics.
- CO3 Demonstrates chemiluminescence and electronically excited states of metal complexes.
- CO4 Give details about Metal complex sensitizer and explains photosensitized reactions in metal complexes.
- CO5 Elaborate photo substitution, photoreduction etc.
- CO6 Discuss the Kinetics and draw mechanism of coordination reactions in non-aqueous media.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT I

Photo Inorganic Chemistry

Basis of Photochemistry: Absorption, Excitation, Photochemical laws, Quantum yield, electronically excited states, lifetime measurements. Flash photolysis, Stop flow techniques. Energy dissipation by radiative and non-radiative processes, Absorption spectra, Franck Condon principle, Photochemical stages: Primary and Secondary processes.

UNIT-II

Excited States of Metal Complexes

Excited states, Photochemical kinetics, Calculations of rates of radiative processes. Bimolecular deactivation: quenching. Electronically excited state of metal complexes, Comparison with organic compounds, Charge transfer spectra.

UNIT-III

Ligand Field Photochemistry

Photo substitution, Photo-oxidation, Photo-reduction, Lability, and selectivity. Metal complex sensitizers (photosensitized reactions in metal complexes, water photolysis, carbon dioxide reduction). Chemical energy into light (chemiluminescence), Redox behaviour of Ruthenium. Excimer and Exciplex formation.

UNIT-IV

Non aqueous Solvents

Basic Introduction, role of solvents in chemical reactions, Physical properties of a solvent, types of solvents and their general characteristics. Kinetics and mechanism of coordination reactions in

non-aqueous media, Electrode potential and its relation to spontaneity and application in the prediction of chemical reactions, Reaction in non-aqueous media with reference to H_2SO_4 , BrF_3 , CH_3COOH , HCN and N_2O_4 . Reactions in molten salts.

Mapping of Paper No. MSc/Chem/3/DSC1-I

Course Outcomes	P01	P02	P03	P04	P05	P06	P07	P08	PSO1	PSO2	PSO3	PSO4
CO1	S	S	W	S	M	S	S	S	S	S	S	S
CO2	S	S	W	S	M	S	S	S	S	S	S	S
CO3	S	S	W	S	M	S	S	S	S	S	S	S
CO4	S	S	W	S	M	S	S	S	S	S	S	S
CO5	S	S	W	S	M	S	S	S	S	S	S	S
CO6	S	S	S	W	M	M	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings

1. Concepts of Inorganic Photochemistry, A. W. Adamson, P. D. Fleischauer.
2. Photochemistry of Coordination Compounds, V. Balzani, V. Carassiti.
3. Elements of Inorganic Photochemistry, G. J. Ferraudi.
4. Inorganic Chemistry, J. E. Huheey, 3rd Edition.
5. Selected Topics in Inorganic Chemistry, W. U. Malik, G. D. Tuli, R. D. Madan.

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/DSC2-I
Inorganic Chemistry Special-II

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Describe Silicates, minerals, and its types in detail.
- CO2 Discuss and draw structures and properties of Oxoacids of Nitrogen, Phosphorus, and sulphur.
- CO3 Explains Metal Carbides & Xenon compounds - its types, Structure, preparation, and properties of.
- CO4 Give details about the preparation, properties and characterisation of hydride complexes.
- CO5 Explain different complexes of lanthanides and actinides with focus on spectral & magnetic properties.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Main group elements

Silicates minerals and its types, Silicones, Zeolites,
Oxoacids of Nitrogen, Phosphorus and Sulphur: structure, preparation and properties, Oxides of Nitrogen, Phosphorus and sulphur: structure, preparation and properties, Metal Carbides and its types: Structure, preparation and properties of Xenon compounds.

UNIT-II

Transition Metal Compounds with bonds to Hydrogen

Characterization of hydride complexes, Synthetic methods, Chemical behaviour of hydride compounds, Mononuclear poly-hydrides, Homoleptic polyhydrides anions, Carbonyl hydrides and hydride anions. Molecular hydrogen compounds. M-H interactions, Synthetic applications of metal hydrides, Monohydrido compounds.

UNIT-III

Chemistry of Lanthanides

Electronic structure, Oxidation state and ionic radii, magnetic properties, colour and spectra Lanthanide contraction and its consequences, Extraction of Lanthanoids, Binary and Ternary compounds, Oxo salts (Not special focus on individual elements), Cyclopentadienyl compounds (Not special focus on individual elements), Use of lanthanides as shift reagents.

UNIT-IV

Chemistry of Actinides

Electronic structure, Oxidation state and ionic radii, magnetic properties, colour and spectra of Actinoids, Actinide contraction. Chemistry of actinium, thorium, protactinium, uranium,

Similarities between later actinides and lanthanides. Differences between actinides and lanthanides. Trans-uranic elements, Cyclopentadienyl compounds (Not special focus on individual elements).

Mapping of Paper No. MSc/Chem/3/DSC2-I

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	M	S	S	S	S	M	S	S	S	S
CO2	S	S	S	S	M	S	S	M	S	S	S	S
CO3	S	S	S	S	M	S	S	M	S	S	S	S
CO4	M	M	M	S	W	S	S	W	S	S	S	S
CO5	S	S	M	S	M	M	S	S	S	S	S	M

S = Strong, M = Medium, W = Weak

Suggested Readings

1. Selected Topics in Inorganic Chemistry, W. U. Malik, G. D. Tuli, R. D. Madan.
2. Inorganic Chemistry, J. E. Huheey, 3rd edition.
3. Advanced Inorganic Chemistry, F. A. Cotton, G. Wilkinson 5th Edition.
4. Principles of Organometallic Chemistry, G. F. Coates, M. L. H. Green, P. Powel and K. Wade.
5. Inorganic Chemistry, K. P. Purcell, J. V. Kotz.
6. Chemistry of Elements, N. N. Greenwood, A. Earnshaw.
7. Inorganic Chemistry, K. P. Purcell, J.V. Kotz.
8. Chemistry of Elements, N. N. Greenwood, A. Earnshaw.

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/DSC3-I
Inorganic Chemistry Special-III

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Explain various rings, cages and chains.
- CO2 Describe the concept and language of supramolecular Chemistry.
- CO3 Demonstrate the various supramolecules and their role in catalysis.
- CO4 Give details about Metal Storage, their Transportations in living organisms and Biomineralization.
- CO5 Discuss the role of iron in biological systems.
- CO6 Elucidate the structural characteristics and role of vitamin B₁₂ in living systems.
- CO7 Describes the types of zinc containing metalloenzymes, their structure and mechanistic approach in involving various reactions occurring in living organisms.
- CO8 Able to draw the structure and role of copper and molybdenum enzymes in biological systems.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT I

Inorganic Chains, Rings and Cages

Chains: Catenation, Intercalation chemistry, Isopolyanions and Heteropolyanions.

Rings: Borazines, phosphazenes and other heterocyclic inorganic ring systems, homocyclic inorganic systems.

Cages: Oxides and sulphides of phosphorus, Arsenic sulphides

UNIT II

Supramolecular Chemistry: Concepts and language

Molecular recognition: Design Principles, Recognition of Tetrahedral and Ammonium Ions and Related Substrates, design and synthesis of co-receptor molecules and multiple recognition. Supramolecular reactivity and catalysis. Transport processes and carrier design. Supramolecular devices. Some examples of self-assembly in supramolecular Chemistry.

UNIT-III

Bioinorganic Chemistry-I

Energy sources for life, Metalloporphyrin's, Photosynthesis and respiration, Chlorophyll: Structure, function and synthetic model, Cytochromes: Structure and function, CN and CO poisoning. Ferredoxins and Rubredoxin, Bio-redox agents and mechanisms, Hemoglobin and myoglobin: Structure and mechanism of function, Cooperativity. Vitamin B₁₂, Enzymes, Coenzymes: Structure and functions, Synthetic model of enzyme action, Inhibition and poisoning by ligands and metal ions, Xanthine oxidase, carbonic anhydrase, carboxypeptidase, superoxide dismutase, Nitrogen fixation.

UNIT-IV

Bioinorganic Chemistry-II

Biochemistry of Iron: Availability of iron, competition for iron, iron toxicity and nutrition. Essential and trace elements in biological systems, Periodic survey of essential and trace elements, biological importance and relative abundance. Biochemistry of the non-metals: Structural uses. Antibiotics and related compounds, Chelate therapy. Problems in biological systems, Agriculture, Gaseous air pollution, Acid rain, Nitrogen oxides, Chlorofluorocarbons and upper atmosphere, Particulate pollution, mixing problems.

Mapping of Paper No. MSc/Chem/3/DSC3-I

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	M	S	S	S	S	M	S	S	S	S
CO2	M	M	S	M	S	S	M	M	S	S	M	M
CO3	S	S	S	M	S	M	S	S	S	M	M	M
CO4	S	M	S	S	S	S	M	S	S	S	S	M
CO5	M	S	S	M	S	M	S	S	M	M	S	M
CO6	S	S	M	S	M	M	S	S	S	S	S	S
CO7	M	S	S	S	S	M	S	S	S	S	M	M
CO8	S	S	M	S	M	M	S	S	S	S	S	M

S = Strong, M = Medium, W = Weak

Suggested Readings

1. Inorganic Chemistry: A Unified Approach, W.W. Porterfield.
2. Advanced Inorganic Chemistry, F. A. Cotton, G. Wilkinson 5th Edition.
3. Inorganic Chemistry, 3rd edition J. E. Huheey.
4. Supramolecular Chemistry, J.M. Lehn, VCH.
5. Bioinorganic Chemistry, Ivano Bertini, Harry B. Gray, Stephen J. Lippard.
6. Chemistry of Elements, N. N. Greenwood, A. Earnshaw.

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/DSC4-I
Inorganic Chemistry Special Practical-I

Credits-4

Time: 8 Hrs./week

Max. Marks: 100

Course outcomes:

- CO1 Discuss the basic concept about the qualitative analysis.
 CO2 Analyse the given mixture for the presence of one acidic radical, two rare earth metal ions and one insoluble salt.
 CO3 Prepare a sample of various coordination complexes.
 CO4 Prepare mentally to face viva-voce.

Syllabus -

1. Qualitative analysis:

Total four radicals to be given containing two less common metal ions, one insoluble and one acid radicals:

- Less common metal ions: Tl, Mo, W, Ti, Zr, Th, V, U (two metal ions in cationic/anionic forms)
- Insoluble oxides (Al_2O_3 , Cr_2O_3 , SnO_2 , TiO_2 , SiO_2), Sulphates (PbSO_4 , BaSO_4) and Halides (AgCl , AgBr , AgI)
- Acid radicals: CO_3^{2-} , HCO_3^- , CH_3COO^- , PO_4^{3-} , $\text{C}_2\text{O}_4^{2-}$, NO_2^- , NO_3^- , Cl^- , Br^- , I^- , S^{2-} , SO_3^{2-} , SO_4^{2-} , $\text{S}_2\text{O}_3^{2-}$.

2. Preparations of Complexes

- Preparations of tetraminezinc(II) flouoroborate $[\text{Zn}(\text{NH}_3)_4][\text{BF}_4]_2$
- Preparations of dinitrotetraminenickel(II) $[\text{Ni}(\text{NH}_3)_4(\text{NO}_2)_2]$
- Preparations of hexaimnenickel(II) chloride $[\text{Ni}(\text{NH}_3)_6]\text{Cl}_2$
- Preparations of nitropentaminechromium(III) chloride $[\text{Cr}(\text{NH}_3)_5(\text{NO}_2)]\text{Cl}_2$
- Bis-(tetraethylammonium) tetrachlorocuprate (II)
- Preparations of bis-(ethylenediamine)copper(II) diiodocuprate (I) $[\text{Cu}\{\text{C}_2\text{H}_4(\text{NH}_2)_2\}_2][\text{CuI}_2]$

Note: Demonstration of different software useful in Chemistry for drawing the structure of compounds.

Draw the Scheme used for the preparation using any structural drawing tool.

Experiment & Written part

Marks: 70

Lab record

Marks: 10

Viva-voce

Marks: 20

Note: The evaluation will be done by external and internal examiners.

Mapping of Paper No. MSc/Chem/3/DSC4-I

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	M	S	M	M	M	S	S	S	M	S
CO2	S	M	S	M	S	S	M	M	S	M	S	M

CO3	S	S	S	S	S	S	S	S	S	S	S	S
CO4	S	S	S	S	S	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. Vogel's Textbook of Quantitative Analysis, revised edition, J. Bassett, R. C. Denney, G. H. Jeffery, J. Mendham, ELBS.
2. Synthesis and Characterization of Inorganic Compounds, W. L. Jolly.
3. Inorganic Synthesis, Vol. 5 & 9, McGraw Hill.
4. Practical Inorganic Chemistry, G. Marr, B. W. Rockett.
5. Experimental inorganic, physical chemistry, M. A. Malati, Woodhead Publishing (1999).

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/DSC1-P
Physical Chemistry Special-I

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Describe types of ensembles.
- CO2 Discuss corresponding distribution laws.
- CO3 Explain Maxwell-Boltzmann statistics and discuss Maxwell distribution law of velocities.
- CO4 Describe Bose-Einstein and Fermi-Dirac statistics and their comparison.
- CO5 Know about partition function and its factorization.
- CO6 Discuss translational thermodynamic function.
- CO7 Explain rotational and vibrational partition functions and evaluate thermodynamics properties.
- CO8 Know the Concept of electrical double layer and its structure.
- CO9 Know about Helmholtz-Perrin, Gouy-Chapman, and Stern models, electrokinetic phenomena, and the determination of zeta potential.
- CO10 Discuss the Contact adsorption on the electrode and its water Flip-Flop model.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Statistical Mechanics

Concept of distribution, Thermodynamic probability and most probable distribution, Canonical, grand canonical and micro canonical ensembles. Maxwell-Boltzmann statistics, Boltzmann distribution, Derivation of the Boltzmann distribution expression, Determination of the Boltzmann constant, Maxwell distribution law of velocity from Boltzmann distribution expression, The Bose-Einstein statistics, Statistics of a photon gas, Fermi-Dirac statistics, and comparison of three statistics.

UNIT-II

Statistical Thermodynamics

Partition function and thermodynamic properties, Factorization of partition function, Relationship of atomic and molar partition function to thermodynamic properties, Translational partition function, Calculation of absolute entropy of an ideal monoatomic gas, Sackur-Tetrode equation. Diatomic molecules, Separation of internal partition function. Vibrational and rotational partition function of diatomic molecules. Calculation of contribution of vibrational, rotational partition functions towards various thermodynamic properties. Electronic partition function, Effect of change of zero-point energy on partition function. Chemical equilibrium and equilibrium constant in terms of partition functions.

UNIT-III

Electrochemistry-I

Electrified Interfaces: Thermodynamics of electrified interfaces, Electrocapillary thermodynamics, non-polarizable interface, and Thermodynamic equilibrium. Fundamental thermodynamic equation of polarizable interfaces. Determination of excess charge density on the

electrode, electrical capacitance and surface excess of the interface, potential of zero charge, Helmholtz-Perrin model, Gouy-Chapman model, and Stern model.

UNIT-IV

Electrochemistry-II

Contact adsorption on the electrode, Free energy of contact adsorption, The degree of contact adsorption and the measurement of contact adsorption, The influence of the contact adsorption on the capacity of the interface, Capacity-potential curve, The position of the OHP and the constant capacity, The capacitance hump, Variation of the population of contact-adsorbed ions with electrode charge, The lateral-repulsion model and the water Flip-Flop model of contact adsorption, The contribution of adsorbed water dipoles to the capacity of the interface.

Mapping of Paper No. MSc/Chem/3/DSC1-P

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	M	S	S	M	S	S	S	S
CO2	S	S	S	S	M	S	S	M	S	S	S	S
CO3	S	S	S	S	M	S	S	M	S	S	S	S
CO4	S	S	S	S	M	S	S	M	S	S	S	S
CO5	S	S	S	S	M	S	S	M	S	S	S	S
CO6	S	S	S	S	M	S	S	M	S	S	S	S
CO7	S	S	S	S	M	S	S	M	S	S	S	S
CO8	S	S	S	S	M	S	S	M	S	S	S	S
CO9	S	S	S	S	M	S	S	M	S	S	S	S
CO10	S	S	S	S	M	S	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. An Introduction to Chemical Thermodynamics, R. P. Rastogi, R. R. Mishra.
2. Introduction to Statistical Thermodynamics, M. Dole.
3. Chemical Physics, J. C. Slater.
4. Theoretical Chemistry, S. Glasstone.
5. Modern Electrochemistry, J. O. M Bockris, A. K. N Reddy, Plenum Publishing Corp.
6. An Introduction to Electrochemistry, S. Glasstone.

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/DSC2-P
Physical Chemistry Special-II

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Discuss about the various defects present in solids and to discuss about the Metals, insulators and semiconductors.
- CO2 Procedure of scientific development/understanding through various theories proposed to explain the properties of solids.
- CO3 Know about Bloch theorem, Brillouin zones, effective mass of charge carriers, hole concept.
- CO4 Classify semiconductors as direct and indirect band gap materials.
- CO5 Discuss free carrier concentration in different types of semiconductors and effect of temperature on electrical conductivity of semiconductors.
- CO6 Discuss the Variation and Perturbation theorem.
- CO7 Discuss VB and MO treatments and extension of MO theory to homonuclear and heteroatoms.
- CO8 Discuss Huckel theory of conjugated systems and apply it to various organic molecules.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Solid State-I

Perfect and imperfect crystals, intrinsic and extrinsic defects, point defects, line and plane defects, vacancies- schottky defects and Frankel defects, colour centers, non-stoichiometry and defects.

Classification of solids, Lattice energy, Evaluation of Madelung constant (NaCl), Calculation of repulsive potential exponent: Lattice heat capacity. Einstein and Debye model of lattice heat capacity, Debye T^3 law.

UNIT-II

Solid State-II

Free electron theory of metals, Quantum mechanical treatment explaining the origin of band gaps, density of states, Band theory, Bloch theorem, Brillouin zones, effective mass of charge carriers, Semiconductors: Direct and indirect band gap semiconductors, hole concept, temperature dependence of mobility and electrical conductivity, free carrier concentration in intrinsic and extrinsic semiconductors, mass active law, Generation of carriers and their recombination in semiconductors. Types of junctions (metal-semiconductor, semiconductor-semiconductor, junctions in organic materials).

UNIT-III

Quantum Mechanics-I

Problem of two electrons, exchange interactions. Approximate methods: First order time-independent perturbation theory for non-degenerate states. Variation theorem and variational

methods. Ground and excited state of helium atom. Coupling of angular momentum for many electron system, spin-orbit coupling, Molecular Term symbols. Born-Oppenheimer approximation, the hydrogen molecule ion, the hydrogen molecule, their symmetric and antisymmetric solution (without actual evaluation of various integrals).

Unit-IV

Quantum Mechanics-II

Valence bond and MO (LCAO) treatment of hydrogen molecule. Comparison of the MO and VB treatments and their equivalence limit. Configuration Interaction. Extension of MO theory to other systems- Homonuclear and heteronuclear diatomics, simple polyatomic molecules.

The pi-electron approximation, Huckel theory of conjugated systems. Applications to ethylene, butadiene, cyclobutadiene and cyclopropenyl molecules. Calculation of properties- Delocalization energy, electron density, bond order.

Mapping of Paper No. MSc/Chem/3/DSC2-P

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	W	S	M	S	-	-	S	S	S	S
CO2	S	S	S	S	M	S	-	-	S	S	S	S
CO3	S	S	S	S	M	S	-	-	S	S	S	S
CO4	S	S	S	S	M	S	-	-	S	S	S	S
CO5	S	S	S	S	M	S	-	M	S	S	S	S
CO6	S	S	S	S	M	S	-	M	S	S	S	S
CO7	S	S	S	S	M	S	-	M	S	S	S	S
CO8	S	S	S	S	M	S	-	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Principles of the Solid State, H.V. Keer, Wiley Eastern.
2. Solid State Chemistry and its Applications, A. R. West, Plenum
3. Solid State Chemistry, N. B. Hannay.
4. Solid State Chemistry, D. K. Chakrabarty, New age International.
5. Solid State Chemistry, W. E. Garner.
6. Physical Chemistry, Puri, Sharma and Pathania.
7. Quantum Chemistry, I. M. Levine, Prentice-Hall.
8. Introduction to Quantum Chemistry, A. K. Chandra, Tata Mc Graw Hill.

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/DSC3-P
Physical Chemistry Special-III

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Explain the basic concepts of polymers and polymerization.
- CO2 Discuss the Mechanism and Kinetics of chain growth and step growth polymerization.
- CO3 Discuss applications of biodegradable polymers and Glass Transition temperature and its factors.
- CO4 Determine the molecular mass by osmometry and ultracentrifugation methods.
- CO5 Discuss the thermal analytical techniques like TGA, DTA, DSC and importance of commercial polymers.
- CO6 Describe thermodynamic properties of mixing.
- CO7 Know about thermodynamic relations for dilute polymer solutions.
- CO8 Know the concept of nephelometry and turbidimetry and its use in the quantitative inorganic analysis.
- CO9 Determining the percentage of optically active substance in a mixtures and finding out the relative strength of acids.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Polymer Chemistry

Classification of polymers, Polymerization: Condensation, Addition, Radical chain, Ionic, Coordination and Co-polymerization. Polymerization conditions and polymer reactions. Polymerization in homogeneous and heterogeneous systems. Kinetics of polymerization. Polydispersion-average molecular weight concept. Number, weight and viscosity average molecular weights. Polydispersity and molecular weight distribution.

Applications of biodegradable polymers, Hyperbranched–star polymers, Dendrimers, Plasticizers, Polymer composites.

Glass transition temperature (T_g), factors influencing the glass transition temperature, effect of molecular weight and melting point on glass transition temperature, importance of glass transition temperature.

UNIT-II

Polymer Characterization

The practical significance of molecular weight. Measurement of molecular weights: End group, Osmotic and Ultracentrifugation methods. Analysis and testing of polymers: Chemical analysis of polymers, Spectroscopic methods and Microscopy. Thermal analysis (TGA, DTA, DSC) and physical testing: Tensile strength, Fatigue, Impact, Tear resistance and Hardness & Abrasion resistance.

Commercial Polymers

Polyethylene, Polyvinyl chloride, Polyamides, Polyesters, Phenolic resins, Epoxy resins and Silicone polymers. Functional polymers: Fire retarding polymers and electrically conducting polymers.

UNIT-III

Thermodynamics of Polymer Solutions

Radius of gyration of polymer chains, statistical distribution of end-to-end dimensions, freely jointed chain in three dimensions, influence of bond angle restrictions.

Entropy of mixing and enthalpy of mixing by lattice model, Flory Huggins lattice theory, limitations of lattice model, entropy of mixing by free volume theory, heat and free energy of mixing, partial molar quantities i.e., chemical potential, heat of dilution and partial molar entropy of mixing, excluded volume, thermodynamic relations for dilute polymer solutions.

UNIT-IV

Turbidimetry, Refractometry and Polarimetry

Nephelometry and Turbidimetry, Theory of Nephelometry and Turbidimetry, Instruments, Applications of scattering methods, Refractometry, Measurement of refractive index. Specific and molar refraction, Variables that affect refractive index measurements, Instruments for measuring refractive index, Applications of refractometry, Polarimetry, optically active compounds, Variables that affect optical rotation, Mechanism of optical rotation, Polarimeters, Applications of optical polarimetry.

Mapping of Paper No. MSc/Chem/3/DSC3-P

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	M	S	S	M	S	S	S	S
CO2	S	S	S	S	M	S	S	M	S	S	S	S
CO3	S	S	S	S	M	S	S	M	S	S	S	S
CO4	S	S	M	S	M	S	W	M	S	S	S	S
CO5	S	S	S	S	S	S	S	M	S	S	S	S
CO6	S	S	S	S	M	S	S	M	S	S	S	S
CO7	S	S	S	S	M	S	S	M	S	S	S	S
CO8	S	S	S	S	M	S	S	M	S	S	S	S
CO9	S	S	S	S	M	S	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Polymer Chemistry, Billmeyer.
2. Polymer Chemistry, Gowarikar.
3. Principles of Polymerization, Geroge Odian.
4. Fundamentals of Analytical Chemistry; D.A. Skoog, O.M. West and F.J. Holler; W.B. Saunders.
5. Fundamental of polymer Science; Springer.

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/DSC4-P
Physical Chemistry Special Practical-I

Credits-4

Time: 8 Hrs./week

Max. Marks: 100

Course outcomes:

CO1 Understand and master the fundamentals of conductometric titrations in aqueous media.

CO2 Apply pH-metry in-

- Determining buffer solutions and determining their pH values.
- Performing acid-base titrations.
- Determining degree of hydrolysis and dissociation constants.

CO3 Apply the technique of spectrophotometry for:

- Verifying Lambert-Beer's law.
- Determining composition of various mixtures.

CO4 Apply the technique of polarimetry for:

- Determining the percentage of optically active substance in a mixture.
- Finding out the relative strength of acids.
- Studying the effect of substituents on rate constant of inversion kinetics.

Syllabus -

Conductometry

1. Determination of the equivalent conductance of strong electrolytes such as HCl, KCl, KNO₃, AgNO₃ and NaCl and the validity of Onsager equation.
2. Determination of the solubility of lead sulphate and silver halides.
3. Conductometric titration of Strong acid vs. strong base using conductivity meter.
4. Conductometric titration of weak acid vs. strong base using conductivity meter.
5. Conductometric titration of Strong acid vs. weak base using conductivity meter.
6. Conductometric titration of weak acid vs. weak base using conductivity meter.

pH Metry

1. Acid base titration of a non-aqueous media using pH meter.
2. Determination of dissociation constant of acetic acid in DMSO, DMF, acetone and dioxane by titrating it with KOH.

Colorimetry/Spectrophotometry

1. Determine the concentration of Crystal violet and Aurine in mixture of (Crystal violet + Aurine) solution.
2. To determine the absorption maxima of a compound using a UV-Visible spectrophotometer.
3. To determine the dissociation constant (K_a) of Methyl red using absorption spectrophotometer.
4. Verification of Lambert's-Beer law using solutions such as I₂ in CCl₄, and K₂Cr₂O₇, CuSO₄ and KMnO₄ in water.

Polarimetry

1. To determine the concentration of an optically active substance.
2. To determine the percentage of two optically active substances in a given mixture.

Solution Chemistry

1. Determination of Solubility by evaporation method.
2. Determination of Solubility by gravimetric method.
3. Determination of transition temperature by thermometric method.

Data-Handling/Representation

Using origin-Lab draw/ EXCEL data in different styles of graphs.

Experiment & Written part

Marks: 70

Lab record

Marks: 10

Viva-voce

Marks: 20

Note: The evaluation will be done by external and internal examiners.

Mapping of Paper No. MSc/Chem/3/DSC4-P

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	M	M	S	S	S	S
CO2	S	S	S	S	S	S	S	M	S	S	S	S
CO3	S	S	S	S	S	S	S	M	S	S	S	S
CO4	S	S	S	S	S	S	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. Practical Chemistry, A. M. James, F. E. Prichard, Longman.
2. Practical Physical Chemistry, B. P. Levitt and Findley's, Longman.
3. Practical Physical Chemistry, S. R. Palit, S.K. De, Science Book Agency.
4. Experimental Physical Chemistry, R. C. Das, B. Behra, McGraw Hill.
5. Experiments in Physical Chemistry, Shoemaker and Gailand McGraw.

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/DSC1-O
Organic Chemistry Special-I

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Demonstrate the principle of oxidation, oxidative processes related to Hydrocarbons-alkenes, aromatic rings, activated and unactivated saturated C-H groups, alcohols, diols, aldehydes, ketones, ketals and carboxylic acids. Amines, hydrazines, and sulphides
- CO2 Describe the applications of ruthenium tetraoxide and thallium (III) nitrate in oxidation of various types of compounds.
- CO3 Describe the general pathways of reduction reactions. Reduction of Hydrocarbons – alkanes, alkenes, alkynes, substituted and unsubstituted aromatic rings.
- CO4 Understand & apply the reduction of carbonyl compounds – aldehydes, ketones, acids and their derivatives, Epoxides. Reduction of compounds containing nitro, nitroso, azo and oxime groups.
- CO5 Describe the principle of Organometallic Reagents and their applications in organic synthesis.
- CO6 Illustrate the role of various Organometallic Reagents of Li, Mg, Cd, Zn, Cu, S, Si, B, Sn I, Pd, Co, Cr and Ti compounds in organic synthesis along with their preparations, properties and applications of these reagents with mechanistic details.
- CO7 Discuss about the preparation & applications of DCC, LDA, DDQ, NBS.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT – I

Oxidation

Introduction to Different oxidative processes: Hydrocarbons- Alkenes, aromatic rings, saturated C-H groups (activated and unactivated), alcohols, Diols, Aldehydes, Ketones, Carboxylic acids, amines, hydrazines and sulfides.

Oxidation with ruthenium tetraoxide, Iodobenzene diacetate and thallium (III) nitrate.

UNIT – II

Reduction

Hydrogenolysis, Hydrogenation. Introduction to Different reductive processes: Hydrocarbons-Alkenes, alkynes and aromatic rings, Carbonyl compounds: aldehydes, ketones, acids and their derivatives. Epoxides, nitro, nitroso, azo and oxime groups.

UNIT – III

Organometallic Reagents I

Principle, preparations, properties and applications of the reagents of the following metals/non-metals in organic synthesis with mechanistic details:

Organolithium, Organomagnesium, Organocadmium, lithiumcuprates, Organozinc, Organosulphur, Organosilicon, organoboranes and Organoiodides (III).

UNIT - IV

Organometallic Reagents II

Principle, preparations, properties and applications of the reagents of the following metals in organic synthesis with mechanistic details:

Organotin, Organopalladium (Heck, Stille, Suzuki, Negishi and Sonogashira), Organocobalt, Organo chromium compounds and Organo titanium (Tebbe olefination).

General Reagents: Principle, preparation, properties and applications of the following in organic synthesis with mechanistic details: DCC, LDA, DDQ, NBS.

Mapping of Paper No. MSc/Chem/3/DSC1-O

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	M	M	S	S	S	S	S
CO2	S	S	S	S	S	S	M	S	S	S	S	S
CO3	S	S	S	S	S	S	M	S	S	S	S	S
CO4	S	S	S	S	S	S	M	S	S	S	S	S
CO5	S	S	S	S	S	S	M	S	S	S	S	S
CO6	S	S	S	S	S	S	M	S	S	S	S	S
CO7	S	S	S	S	S	S	M	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Some Modern Methods of Organic Synthesis, W. Carruthers, Cambridge Univ. Press
2. Modern Synthetic Reactions, H. O. House, W. A. Benzamin
3. Advanced Organic Chemistry, Part B., F. A. Carey, R. J. Sundberg
4. Principles of Organic Synthesis, R. O. C. Normon, J. M. Coxon
5. Some Modern Method of Organic Synthesis, W. Carruther, Cambridge Univ. Press.
6. Advanced Organic Chemistry, Reactions Mechanism and Structure, J. March, John Wiley.
7. Advanced Organic Chemistry and Reaction Mechanisms, Reinhard Bruckner, Academic Press.
8. Organic Chemistry, Jonathan Clayden, Nick Greeves, and Stuart Warren, Oxford University Press.

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/DSC2-O
Organic Chemistry Special-II

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Appreciate the role of Molecular Orbitals in analyzing Pericyclic Reactions.
- CO2 Interpret the stereochemical course of a Pericyclic Reaction – Electrocyclic, cycloaddition and sigmatropic reactions and identify the product.
- CO3 Predict the course of an organic photochemical reaction and identify the product with the type of functional group present on the molecule.
- CO4 Predict the course of photochemical reaction - Photolysis of hypohalites, Barton reaction, Hoffman-Loeffler-Freytag reaction, Di- π methane rearrangement, Photodegradation of polymers.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT – I

Pericyclic Reactions-I

Molecular orbital symmetry, Frontier orbital of ethylene, 1,3-butadiene, 1,3,5-hexatriene and allyl system, Classification of pericyclic reactions, Woodward-Hoffmann correlation diagram method, FMO and PMO approach.

Electrocyclic reaction: conrotatory and disrotatory motions. $4n$, $4n + 2$, allyl systems.

Cycloadditions: antarafacial and suprafacial additions, $4n$ and $4n+2$ systems, Stereochemistry of Cycloaddition Reactions with focus on Endo/Exo stereoselectivity, stereochemistry of products due to stereochemistry of diene, Orientation effects in Diels Alder reaction, 2+2 addition of ketenes, 1,3-Dipolar cycloadditions and Chelotropic reactions.

UNIT – II

Pericyclic Reactions-II

Sigmatropic rearrangements: suprafacial and antarafacial shifts of H & Sigmatropic shifts involving carbon moieties with special focus on 1,3 & 1,5 moieties. Retention and inversion of configuration, [3,3] and [5,5] sigmatropic rearrangements, Detailed treatment of Sommelet-Hauser, Claisen and Cope rearrangements.

Introduction to Ene reactions. Simple problems on pericyclic reactions. Group transfers and eliminations.

UNIT – III

Photochemistry-I

Photochemical Reactions: Excitation & Excited states, types of excitations, Franck-Condon Principle, Jablonski diagram, Energy transfer Photosensitization, Quenching, Quantum efficiency and quantum yield.

Photochemistry of Carbonyl Compounds:

Photochemistry of carbonyl compounds (Norrish type I and type II changes, photoreaction of cyclic ketones, Paterno-Buchi reaction and Photoreduction, Photochemistry of olefins and 1, 3-Butadiene (cis-trans isomerization, dimerization and cycloadditions).

UNIT – IV**Photochemistry-II**

Photochemistry of Aromatic Compounds: Isomerisations, cyclization, additions and substitutions reactions.

Miscellaneous Photochemical Reactions: Photolysis of hypohalites, Barton reaction, Hoffman-Loeffler-Freytag reaction, Di- π methane rearrangement, Photodegradation of polymers.

Mapping of Paper No. MSc/Chem/3/DSC2-O

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	M	S	M	M	S	S	S	S
CO2	S	S	S	S	S	S	M	M	S	S	S	S
CO3	S	S	S	S	S	S	M	M	S	S	S	S
CO4	S	S	S	S	S	S	M	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Organic photochemistry, J. Coxan, B. Halton, Cambridge University Press.
2. Introductory Photochemistry, A. Cox, T. Camp Mc Graw Hill.
3. Organic Reactions and Orbital Symmetry, T. L Gilchrist, R. C. Storr, Cambridge University Press. Cambridge, 2nd Ed. 1979.
4. Organic photochemistry, Chapman and Depuy.
5. Organic Photochemistry, W. H. Horspool.
6. Photochemistry of excited states, J. D. Coyle.
7. Pericyclic Reactions, S. M. Mukherji.
8. Aspects of Organic Photochemistry by Horspool, W. M.
9. Pericyclic Reactions by Marchand, A. P. & Lehr, R. E.
10. Organic Photochemistry and Pericyclic Reactions, M G Arora.

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/DSC3-O
Organic Chemistry Special-III

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Understand, define and classify terpenoids, isoprene and special isoprene rule, general methods of structure elucidation of terpenoids.
- CO2 Apply the acquainted knowledge for structure elucidation and synthesis of Geraniol, α -terpineol, α -pinene, camphor, farnesol, citral, α -carotene, β -carotene and γ -carotene and biosynthesis of terpenoids.
- CO3 Illustrate steroids and their classification, Isolation and nomenclature, structure elucidation, synthesis and stereochemistry of cholesterol.
- CO4 Describe synthetic pathways of testosterone, progesterone, 5 α - and 5 β -cholanic acids from Cholesterol. Johnson's hydrochrysene approach for the synthesis of androsterone.
- CO5 Appreciate general aspects of isolation and structure elucidation of alkaloids for application in structure elucidation, synthesis and biosynthesis of listed alkaloids.
- CO6 Understand general aspects of isolation and degradative and synthetic aspects of structure elucidation of flavonoids.
- CO7 Apply this knowledge for structure elucidation and synthesis of Cyanin, Quercetin, Diadzein and Chrysin.
- CO8 Understand the biosynthetic Acetate and Shikimic acid pathway leading to production of Flavonoids.
- CO9 Describe about the nomenclature and biological roles of prostaglandins, synthesis PGE₂ and PGF_{2 α} .

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Terpenoids

General aspects of structure determination of terpenoids, isoprene rule & special isoprene rule. Structure elucidation and synthesis of Geraniol, α -terpineol, α -pinene, camphor, farnesol and citral. Biosynthesis of terpenoids.

Carotenoids

Structure elucidation and synthesis of α -carotene, β -carotene and γ -carotene.

UNIT – II

Steroids

Isolation and nomenclature of steroids. Structure elucidation, Woodward synthesis and stereochemistry of cholesterol.

Methods for the following conversions.

1. Cholesterol \rightarrow Testosterone
2. Cholesterol \rightarrow Progesterone
3. Cholesterol \rightarrow 5- α and 5- β cholanic acids.

Johnson's hydrochrysene approach towards the synthesis of Androsterone.

UNIT – III

Alkaloids: Definition, Classification (based on N-heterocyclic ring), Nomenclature and physiological action, occurrence, general methods of structure elucidation.

Structure, Stereochemistry, synthesis and biosynthesis of following: Nicotine, Quinine, morphine and Ephedrine and (+)- Coniine, role of alkaloids in plants.

UNIT – IV

Plant Pigments: Occurance, nomenclature and methods of structure determination and synthesis of the following: Quercetin, Cyanine, Diadzein, Chrysin. Biosynthesis of Flavonoids.

Prostaglandins

General Introduction, nomenclature and biological roles of prostaglandins, Synthesis of PGE₂ and PGF_{2 α} .

Mapping of Paper MSc/Chem/3/DSC3-O

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	W	S	S	S	S	S	S	S
CO2	S	S	S	S	W	S	S	S	S	S	S	S
CO3	S	S	S	S	W	S	M	S	S	S	S	S
CO4	S	S	S	S	S	S	M	S	S	S	S	S
CO5	S	S	S	S	S	S	M	S	S	S	S	S
CO6	S	S	M	S	M	S	M	M	S	S	S	S
CO7	S	S	M	S	M	S	M	M	S	S	S	S
CO8	S	S	M	S	M	S	M	M	S	S	S	S
CO9	S	S	S	S	S	S	M	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Natural Products: Chemistry and Biological Significance, J. Mann, R. S. Davidson, J. B. Hobbs, D. V. Banthrope, J. B. Harborne, Longman, Essex.
2. Organic Chemistry, Vol-2, I. L. Finar, ELBS.
3. New Trends in Natural Products Chemistry, A. Rahman, M. I. Choudhary, Harwood Academic Publishers.

M.Sc. Chemistry (3rd Sem.)
MSc/Chem/3/DSC4-O
Organic Chemistry Special Practical-I

Credits-4

Time: 8 Hrs./week

Max. Marks: 100

Course outcomes:

- CO 1 Understand the concept of stepwise synthesis of a product and their purification.
- CO 2 Explore various combinations of reactions that can be exploited to form a product.
- CO 3 Able to understand the application of structural drawing tools such as Chem Axon, Chem Draw etc. for sketching the organic compounds, finding IUPAC nomenclature, ¹H NMR prediction and some useful physical properties of small organic compounds.
- CO 4 Perform experimentation and evaluate the results.
- CO 5 Demonstrate the ability to compile interpreted information in the form of lab record.
- CO 6 Prepares mentally to face viva-voce.

Syllabus –

Preparations of Organic compounds involving two and three stages:

1. Hydroquinone — Benzoquinone — 5- Hydroxy benzothiole-2-one
2. Acetophenone — Acetophenone oxime — Acetanilide
3. Benzaldehyde — Benzoin — Benzil — Benzillic acid
4. Nitrobenzene — m-dinitrobenzene — m-nitroaniline — m-nitrophenol
5. Phthalic acid — phthalic anhydride – phthalimide — Anthranilic acid
6. Phthalic anhydride – o-Benzoylbenzoic acid – Anthraquinone – Anthrone
7. Ethyl acetate – Ethylacetoacetate — 4-methyl-7-hydroxycoumarin — 6 and 8- nitro-4-methyl-7-hydroxycoumarin
8. Aniline — 2,4,6-tribromaniline — 1,3,5-tribromobenzene
9. O - Chlorobenzoic acid —N-phenylanthranilic acid —acridone
10. Aniline — 2,4,6-tribromaniline — 1,3,5-tribromobenzene
11. Chlorobenzene—2,4-dinitrochlorobenzene —2,4-dinitrophenol
12. Any other multi step reaction as per requirement

Note:

1. All the students must check the progress of reaction and purity of Final products for all the stages of preparation by either recrystallisation or Thin layer Chromatography.
2. Demonstration of different software useful in Chemistry for drawing the structure of Organic compounds as well as for the computational studies of small organic molecules.
3. Draw the Scheme used for a multi-step preparation (two or three) using any structural drawing tool & get the IUPAC name and predicted ¹H-NMR spectrum for each compound involved in multi-step preparation.

Experiment & Written part

Marks: 70

Lab record

Marks: 10

Viva-voce

Marks: 20

Note: The evaluation will be done by external and internal examiners.

Mapping of Paper No. MSc/Chem/3/DSC4-O

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	S	M	S	S	S	S
CO2	S	S	M	S	M	S	M	M	S	S	S	S
CO3	S	S	M	S	M	S	M	M	S	S	S	S
CO4	S	S	M	S	M	S	M	M	S	S	S	S
CO5	S	S	S	S	S	S	S	S	S	S	S	S
CO6	S	S	S	S	S	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. "Elementary Practical Organic Chemistry by Arthur I. Vogel Longmans, Green and Co. 1958.
2. "An Introduction to Practical Biochemistry", by David T. Plummr, Tata McGraw Hill Publishing Company, Ltd., N. Delhi, 1988.
3. Practical Organic Chemistry' by Mann and Saunders.
4. Text Book of Vogel's Practical Organic Chemistry by Longman Group, B.S. Furness et al., Ltd.
5. "Experiments in Organic Chemistry" Louis F. Fieser O.C. Heath and Company Boston, 1955.
6. "Organic Synthesis" Collective Vol. I.
7. "Laboratory Manual in Organic Chemistry' by R.K. Bansal, Wiley Eastern Ltd., New Delhi-1980.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/SEC2
Applied Spectroscopy

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course Outcomes:

- CO1 Describes the basic concept of Ultraviolet and Visible Spectroscopy.
- CO2 Elaborates the Beer-Lambert law, effect of solvent on electronic transitions & apply Fieser-Woodward rules for calculating λ_{\max} for conjugated dienes and carbonyl compounds.
- CO3 Discuss the methods of fragmentation of organic compounds - EI, CI, FD and FAB, factors affecting fragmentation, ion analysis, ion abundance.
- CO4 Able to apply the concept of mass spectrometry for the determination of structure of organic compounds based on fragmentation.
- CO5 Give details about principle of IR spectroscopy and various absorption bands and apply the knowledge in interpreting organic compounds.
- CO6 Describes the basic concept behind NMR spectroscopy and its application for the structure elucidation.
- CO7 Discuss the chemical shift and coupling constant of ¹H-NMR in relation to stereochemical structure of the organic compound.
- CO8 Explains the difference between First order & non-first order NMR spectra and Tools used for simplification of complex NMR spectrum (instrumental and chemical).
- CO9 Give the details, chemical shifts of ¹³C-NMR and their applications in structure determination of organic compounds.
- CO10 Demonstrate NOSY, COSY and NOE.
- CO11 Able to solve the composite problems of IR, NMR, Mass and UV spectroscopy.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT I

Ultraviolet and Visible Spectroscopy

The energy of electronic excitation, Measurement techniques, Beer-lambert law, Molar extinction coefficient. The Frank-Codon principle. Different types of transition in UV spectrum of organic functional groups and their relative energies, Chromophore, Auxochromes, Factors affecting extinction coefficient (λ_{\max}). Effect of steric hindrance to coplanarity, Solvent effects. Absorption spectra of charge transfer complexes. Woodward Fieser rules for conjugated dienes and carbonyl compounds. Applications of UV-Vis spectroscopy.

Mass Spectrometry

Elementary theory, Measurement techniques (EI, CI, FD, FAB), Resolution, Exact masses of nuclides, Molecular ions, Isotopic ions, Rearrangement of ions. Factors affecting cleavage, cleavage patterns, simple cleavage, cleavages at heteroatoms, Multicentre fragmentations rearrangements, Retro Diels-Alder fragmentations. Cleavage associated with common functional groups (aldehydes, ketones, acyclic esters, alcohols, olefins, aromatic amine compounds).

Special methods of GC-MS, High resolution MS, Interpretation of the spectrum of an unknown compound.

UNIT-II

Infrared Spectroscopy

Principle and Theory, Characteristic vibrational frequencies of alkanes, alkenes, alkynes, aromatic compounds, alcohols, ethers, phenols and amines, nitriles and isonitriles. Detailed study of vibrational frequencies of carbonyl compounds (ketones, aldehydes, esters, amides, acids, anhydrides, lactones, lactams and conjugated carbonyl compounds). Effect of hydrogen bonding and solvent effect on vibrational frequencies, overtones, combination bands and Fermi resonance. FT-IR. Effects giving rise to absorption bands. Group vibrations and limitations of group vibration concept.

UNIT-III

Nuclear Magnetic Resonance

General introduction and definition, chemical shift, spin-spin interaction, shielding and deshielding mechanism, chemical shift values and correlation for protons bonded to carbon (aliphatic, olefinic, aldehydic and aromatic) and other nuclei (alcohols, phenols, enols, carboxylic acids, amines, amides & mercapto), complex spin-spin interaction between two, three, four and five nuclei (first order spectra), virtual coupling. Stereochemistry, concept of topicity, effect of enantiomeric and diastereomeric protons, hindered rotation, Karplus curve - variation of coupling constant with dihedral angle. Fourier transform technique and its advantages.

Tools for simplification of complex NMR spectrum (chemical and instrumental): - Deuteration, changing solvent, trifluoroacetylation, basification and acidification, lanthanide shift reagents, increased magnetic field strength, double resonance and nuclear overhauser effect (NOE), variable temperature probe. Concept of ²D-NMR spectroscopy-NOSY, COSY.

UNIT-IV

Carbon-13 NMR Spectroscopy

General considerations, Comparison of ¹H-NMR and ¹³C-NMR, Proton coupled and proton decoupled ¹³C-NMR, chemical shift (aliphatic, olefinic, alkyne, aromatic, heteroaromatic and carbonyl carbon), coupling constants. Nuclear Overhauser effect.

Composite Problems

Problems involving the application of the above spectroscopic techniques (UV/Visible, IR, NMR and Mass) for structural elucidation of organic molecules.

Mapping of Paper No. MSc/Chem/4/SEC2

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	M	S	M	S	S	W	S	S	S	S
CO2	S	S	M	S	M	S	S	W	S	S	S	S
CO3	S	S	S	S	S	S	S	S	S	S	S	S
CO4	S	S	M	S	S	S	S	M	S	S	S	S
CO5	S	S	M	S	S	S	S	M	S	S	S	S
CO6	S	S	M	S	S	S	S	M	S	S	S	S

CO7	M	S	M	S	M	S	M	W	S	S	S	M
CO8	M	M	M	S	W	S	S	W	S	S	S	S
CO9	S	S	M	S	S	S	S	M	S	S	S	S
CO10	S	S	M	S	S	S	S	M	S	S	S	S
CO11	S	S	S	S	S	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings

1. Organic Spectroscopy, W. Kemp, ELBS, London.
2. Spectroscopic Methods in Organic Chemistry, D. H. Williams and I. Fleming.
3. Spectrometric Identification of Organic compounds, R. M. Silverstein and G. C. Bassler.
4. Introduction to Spectroscopy, Donald L Pavia.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/DSC5-I
Inorganic Chemistry Special-IV

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Discuss the synthesis, structure characteristic and chemical properties of metal carbonyls, metal nitrosyls.
- CO2 Understand the synthesis and structural characteristics and important reactions of dinitrogen and dioxygen complexes.
- CO3 Describe the various classifications of metal cluster compounds.
- CO4 Understand various characteristics of metal boranes carboranes, metalloboranes and metallo-carboranes and learn about their various aspects.
- CO5 Discuss the existence, stability and formation of metal-metal multiple bonds.
- CO6 Understand the basics of organometallics and their applications.
- CO7 Understand the classification of inorganic polymers and their comparison with organic polymers.
- CO8 Know about boron-nitrogen polymers, silicones, coordination polymers, phosphorus-nitrogen compounds.
- CO9 Describe the concept of Fluxionality and its dynamic equilibria in compounds such as η^2 -olefin, η^3 -allyl and dienyl complexes.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Metal π -Complexes

Metal carbonyls: structure and bonding, vibrational spectra of metal carbonyls for bonding and structural elucidation, important reactions of metal carbonyls; preparation, bonding, structure and important reactions of transition metal nitrosyl, dinitrogen and dioxygen complexes; tertiary phosphine as ligand, reactions of binuclear carbonyl.

UNIT II

Metal Clusters

The isolobal analogy, isolobal fragments, Zintl ions; Higher boranes, carboranes, metalloboranes and metallocarboranes; Metal carbonyl and halide clusters, compounds with metal-metal multiple bonds (quadrupole bonding in $[\text{Re}_2\text{Cl}_8^{2-}]$).

UNIT-III

Basics of Organometallics

Nature of M–C bond in alkali/alkaline earth metal complexes, Metal carbenes and carbynes, Transition metal pi complexes with unsaturated molecules: Olefinic, Acetylenic, allyl and dienyl

(butadiene's, cyclobutadiene) complexes: Synthesis, structures and properties, η^5 - complexes of cyclohexadienyl complexes.

Ferrocene: M.O. treatment, synthesis, structure and properties, η^6 complexes of benzene and its derivatives, Multidecker sandwich compounds.

UNIT-IV

Inorganic Polymers

Classification, types of inorganic polymerization, comparison with organic polymers, boron-nitrogen polymers, silicones, coordination polymers, phosphorus-nitrogen compounds.

Fluxional Organometallic compounds

Fluxionality and dynamic equilibria in compound such as η^2 -olefin, η^3 -allyl and dienyl complexes, Carbonyl scrambling.

Mapping of Paper No. MSc/Chem/4/DSC5-I

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	M	M	S	M	S	S	M	M	S	S	M	M
CO2	S	S	S	M	S	M	S	S	S	M	M	M
CO3	S	S	S	S	M	M	S	M	S	S	S	M
CO4	M	M	S	M	S	S	M	M	S	M	S	M
CO5	S	M	S	S	S	S	M	S	S	M	M	M
CO6	M	S	S	M	S	M	S	S	S	S	S	S
CO7	S	S	M	S	M	M	S	S	S	S	M	M
CO8	S	S	S	S	M	S	S	S	S	S	S	S
CO9	S	S	S	S	M	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Organometallic Chemistry; R.C.Mehrotra and A.Singh, New Age International.
2. Concepts and Models of Inorganic Chemistry; B. Douglas, D.H.McDaniel and J.J. Alexander; John Wiley.
3. The Organometallic Chemistry of the Transition Metals; R.H. Crabtree, John Wiley.
4. Inorganic Chemistry, A Modern Introduction; T. Moeller; John Wiley and Sons.
5. Coordination Chemistry; Banerjee; Tata McGraw Hill.
6. Inorganic Chemistry, A Modern Introduction; T. Moeller; John Wiley and Sons.
7. Concepts and Models of Inorganic Chemistry; B. Douglas, D.H. Mc Daniel and J.J. Alexander; John Wiley and Sons Inc.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/DSC6-I
Inorganic Chemistry Special-V

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Discuss the Reaction Mechanism of Transition Metal Complexes.
- CO2 Know the kinetics of octahedral substitution, acid hydrolysis, factors affecting acid hydrolysis, base hydrolysis, and conjugate base mechanism.
- CO3 Describe the Substitution reactions in square planar complexes, with reference to Trans effect and their mechanism.
- CO4 Describe electron transfer reactions and mechanism of one electron transfer reactions, outer-sphere type reactions, cross reactions.
- CO5 Learn about ESR spectroscopy and its application in inorganic analysis.
- CO6 Know about basic concept of NMR and its utilization in the structural determination of inorganic compounds.
- CO7 Discuss the basic principles, spectral parameters and display in Mossbauer spectroscopy to explain the oxidation states, coordination number and nature of metal ligand bond.
- CO8 Understand Mossbauer technique for the determination of structure and bonding in iron and tin complexes.
- CO9 Understand the Fundamental concepts, instrumentation application of absorption spectroscopy to analysis of inorganic substances.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Reaction mechanisms of Transition Metal Complexes-I

Introduction, Classifications of mechanisms, Kinetics of octahedral substitution, Water exchange rates, Formation of complex aqueous ions, Anation reactions, Acid hydrolysis, Base hydrolysis, conjugate base mechanism. Substitution Reactions of square planar complexes, Mechanisms of substitution reactions, Trans Effect, Species with 17 electrons.

UNIT-II

Reaction mechanisms of Transition Metal Complexes-II

Redox reactions, electron transfer reactions, general discussion and kinetic rate laws., mechanism of one electron transfer reactions, outer-sphere type reactions, cross reactions and Marcus-Hush theory, inner sphere type reactions, two electron transfer reactions, metal ion catalysed reactions, mixed valence complexes and their electron transfer.

UNIT-III

Electron Spin Resonance Spectroscopy

Hyperfine coupling, spin polarization for atoms and transition metal ions, spin-orbit coupling and significance of g-tensor, application to transition metal complexes (having one unpaired electron) and inorganic free radicals such as PH_4 , F^{2-} and $[\text{BH}_3]^-$, Double resonance in EPR.

Nuclear magnetic Resonance

Nuclear relaxation, Factors affecting nuclear relaxation, effect of chemical exchange on spectrum and evaluation of reaction rate of fast reactions, Double resonance, Lanthanide shift reagents, an overview of NMR of other nuclides with emphasis on ^{31}P , ^{19}F , ^{195}Pt and ^{119}Sn NMR, Applications in inorganic chemistry.

UNIT-IV

Mossbauer Spectroscopy

Basic principles, spectral parameters and spectrum display. Application of the technique to the studies of (1) bonding and structures of Fe^{2+} and Fe^{3+} compounds including those of intermediate spin, (2) Sn^{2+} and Sn^{4+} compounds – nature of M-L bond, coordination number, structure and (3) detection of oxidation state.

Spectrophotometry and Colorimetry

Fundamental concepts, instrumentation for absorption measurements, interferences, application of absorption spectroscopy and Colorimetry to analysis of inorganic substance.

Mapping of Paper No. MSc/Chem/4/DSC6-I

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	M	S	S	S	M	S	S	S	S
CO2	S	S	S	S	S	S	S	S	S	S	S	S
CO3	S	S	S	S	S	S	S	S	S	S	S	S
CO4	S	S	M	S	S	S	S	M	S	S	S	S
CO5	S	S	S	S	M	S	S	M	S	S	S	S
CO6	S	S	S	S	M	S	S	M	S	S	S	S
CO7	S	S	S	S	M	S	S	M	S	S	S	S
CO8	S	S	S	S	M	S	S	S	S	S	S	S
CO9	S	S	S	S	M	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Mechanism of Inorganic Reactions; F.Basolo and R.G. Pearson, John Wiley and Sons, New York.
2. Inorganic Reaction Mechanism; M.L. Tobe; Nelson, Wlaton and Thames.

3. Inorganic Chemistry; K.F. Purcell, J.C. Kotz; Holt-Sanders International Editions; Philadelphia.
4. Fundamentals of Analytical Chemistry; D.A. Skoog, O.M. West and F.J. Holler; W.B. Saunders.
5. Instrumental methods of Analysis; L.L. Merrit, R.H. Willard and J.A. Dean; Van Nostrand-Reinhold.
6. NMR, NQR, EPR and MB Spectroscopy in inorganic Chemistry, R.V. Parish, Ellis Horwood.
7. Fundamentals of Molecular Spectroscopy; C. N. Banwell; McGraw Hill.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/DSC7-I
Inorganic Chemistry Special-VI

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Know about use of alkene and alkynes as ligands in organometallics.
- CO2 Understand the synthesis and reactions of carbene and carbynes in organometallic chemistry.
- CO3 Describe the oxidative addition, reductive elimination and migratory reactions in organometallics.
- CO4 Know about various types of homogenous catalysis reactions and their utility in organic synthesis.
- CO5 Know about use of organometallic polymers.
- CO6 Understand about various types of organometallic compounds as drugs.
- CO7 Know about radiopharmaceuticals, ionophores and sensors.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Organometallics –I

Alkenes and Alkynes as ligands: Synthesis of metal-alkene complexes, the concept of Umpolung, reactions of metal complexes of alkenes and alkynes, Pauson -Khand reaction.

Carbene: synthesis, nature of bond, structural characteristics, nucleophilic and electrophilic reactions on the ligands, role in organic synthesis.

Carbynes: synthesis and reactions

UNIT-II

Organometallics –II

Oxidative addition: Agostic and anagostic interactions, oxidative addition involving C-H bonds and cyclometallation, oxidative coupling, addition reactions of Si-H bond, C-C, C-Si and Si-Si bonds.

Reductive elimination in mononuclear and binuclear systems.

Migratory insertion reactions: General features, Insertion of alkenes and Alkyne.

UNIT-III

Applications of Transition metal Organometallics as Catalysts

Zeigler-Natta polymerization; homogeneous catalytic hydrogenation; alkene hydrogenation-Wilkinson Catalyst; Oxidation of olefins-Wacker's process; hydroformylation of olefins – the oxo process; Monsanto acetic acid process; Cativa Process; alkene (olefin) metathesis and Grubb's catalyst.

UNIT-IV

Applications of Transition metal Organometallics as polymers, drugs

Organometallic Polymers: Ferrocene based condensation polymers, rigid rod polymers.

Organometallic compounds as drugs: ruthenium compounds as general anticancer drugs, ferroquine as antimalarial drug and ferrocifen as breast cancer drug.

Organometallics as radiopharmaceuticals, ionophores and sensors.

Mapping of Paper No. MSc/Chem/4/DSC7-I

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	M	S	S	M	S	S	S	S
CO2	S	S	S	S	M	S	S	M	S	S	S	S
CO3	S	S	S	S	M	S	S	M	S	S	S	S
CO4	S	S	S	S	M	S	S	M	S	S	S	S
CO5	S	S	S	S	M	S	S	M	S	S	S	S
CO6	S	S	S	S	M	S	S	M	S	S	S	S
CO7	S	S	S	S	M	S	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Principles and Application of Organotransition Metal Chemistry, J.P. Collman, L.S. Heagsdus, J.R. Norton and R.G. Finke, University Science Books.
2. The Organometallic Chemistry of the Transition Metals; R.H. Crabtree, John Wiley.
3. Organometallic Chemistry, R.C. Mehrotra and A. Singh, New Age International.
4. Inorganic Chemistry; K.F. Purcell, J.C. Kotz; Holt-Sanders International Editions; Philadelphia.

CO3	S	S	S	S	S	S	S	S	S	S	S	S
CO4	S	S	S	S	S	S	S	S	S	S	S	S
CO5	S	S	S	S	S	S	S	S	S	S	S	S
CO6	S	S	S	S	S	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. Synthesis and Characterization of Inorganic compounds. W. L. Jolly, Prentice Hall, Englewood.
2. A Text Book of Quantitative Analysis: A. I. Vogel, ELBS, London.
3. Inorganic Preparations: W. G. Palmer.

CO2	S	S	S	S	S	S	S	S	S	S	S	S
CO3	S	S	S	S	S	S	S	S	S	S	S	S
CO4	S	S	S	S	S	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. Inorganic Synthesis, Book Series Vol 1-15, Wiley
2. Practical Inorganic Chemistry, G. Marr, B. W. Rockett
3. Bull. Chem. Soc., Japan 29, (1956) 852.
4. J. Chem. Soc 84, (1962) 3404.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/DSC5-P
Physical Chemistry Special-IV

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Introduce advanced concepts of electrochemistry including overpotential, exchange current density and Butler-Volmer equation.
- CO2 Discuss electrochemical energy sources like fuel cells and batteries.
- CO3 Understand the forms, monitoring and mixed potential and passivity theory.
- CO4 Prevention methods of corrosion and corrosion inhibitors.
- CO5 Study the various statistical parameters used in the treatment of analytical data like types of errors, their sources and minimization along with Statistical evaluation of analytical data.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Electrodics

Rate of charge transfer reactions under zero field, under the influence of an electric field. The equilibrium exchange current density, the non-equilibrium drift-current density (Butler-Volmer) equation. High-field and low-field approximations. Physical meaning of the symmetry factor (β), A simple picture of the symmetry factor and its dependence on over potential. Polarizable and non-polarizable interfaces.

UNIT-II

Fuel Cells and Batteries

The maximum intrinsic efficiency, Actual efficiency and Current-Potential relation in an electrochemical energy converter. Factors influencing the electrochemical energy conversion, The power output of an electrochemical energy converter. Electrochemical electricity generators (fuel cells). Brief idea about H₂-O₂ fuel cell, Hydrocarbon-air fuel cells, and Natural gas, CO-air fuel cells, Electricity storage: Some important quantities in electricity storage (like electricity storage density, energy density and power), Desirable conditions for an ideal storer, Storage of electricity using the lead-acid battery, Dry cell, Silver-Zinc cell and Sodium-Sulfur cell.

UNIT-III

Corrosion

Electrochemistry of corrosion of metals, Factors affecting corrosion, Electrochemical cell formation, Polarization of metal electrode i.e., Concentration, Resistance and Activation polarization. Anodic and cathodic polarization curves (Evan's diagram). Electrochemical measurement of corrosion current density, corrosion potential and mixed potential theory and Tafel slope. Anodic passivation and passivation potential. Passivity theory.

Protection methods against Corrosion

Charge of Metal, Design improvement, Change of Environment, Anodic protection, Cathodic Protection, Protective coatings.

Corrosion inhibitors: Classification, mechanism, selection of corrosion inhibitors, inhibition efficiency and factors influencing & measurement of inhibition efficiency.

UNIT-IV

Errors and Evaluation

Definition of terms in mean and median. Precision-standard deviation, relative standard deviation. Accuracy-absolute error, relative error. Types of error in experimental data-determinate (systematic), indeterminate (or random) and gross. Sources of errors and the effects upon the analytical results. Methods for reporting analytical data. Statistical evaluation of data-indeterminate errors. Significance of the F test, the student 't' test, and the Chi-test, Linear Regression Analysis.

Mapping of Paper No. MSc/Chem/4/DSC5-P

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	M	S	M	S	W	M	S	S	S	S
CO2	S	S	S	S	M	S	-	-	S	S	S	S
CO3	S	S	S	S	M	W	-	M	S	S	S	S
CO4	S	S	S	S	M	S	-	-	S	S	S	S
CO5	S	S	S	S	M	S	-	-	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. An Introduction to Electrochemistry, S. Glasstone
2. Corrosion Engineering, Fontana, Mc Graw Hill.
3. An introduction to metallic corrosion, Raj Narain.
4. Electrochemical Methods: Fundamentals and Applications, 2nd Ed., A. J. Bard and L. R. Faulkner John Wiley & Sons: New York, 2002.
5. Modern Electrochemistry 1: Ionics 2nd Ed., Springer (1998), J. O' M. Bockris & A. K. N. Reddy.
6. Modern Electrochemistry 2B: Electrodes in Chemistry, Engineering, Biology and Environmental Science 2nd Ed., Springer (2001), J. O' M. Bockris & A. K. N. Reddy.
7. Modern Electrochemistry 2A: Fundamentals of Electrodes 2nd Ed., Springer (2001), J. O' M. Bockris, A. K. N. Reddy and M. E. Gamboa-Aldeco.
8. A Textbook of Quantitative Inorganic Analysis, A.I. Vogel; ELBS, London.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/DSC6-P
Physical Chemistry Special-V

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Discuss the Langmuir adsorption isotherm and its kinetic derivation for non- dissociative and dissociative adsorption.
- CO2 Express the knowledge about various terms associated with micelles.
- CO3 Explain the thermodynamics of micellization.
- CO4 Discuss wetting and its types.
- CO5 Discuss Voltammetry, Polarography and Amperometric titrations.
- CO6 Discuss the basic principle of various electro analytical techniques.
- CO7 Discuss the Ion Selective and Enzyme Electrodes.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Chemistry of Surfactants-I

Adsorption of surface-active agents at Solid/Liquid, Liquid/Gas and Liquid/Liquid interfaces. Mechanism of adsorption, adsorption isotherm, effects of adsorption from aqueous solution on the surface properties of solid adsorbent, adsorption from non-aqueous solution. Determination of surface areas of solids. Gibb's and BET adsorption equation and its utilization to calculate surface concentration and surface area per molecule.

UNIT-II

Chemistry of Surfactants-II

Surface active agents, classification of surface-active agents, micellization, hydrophobic interaction, critical micellar concentration (CMC), factors affecting the CMC of surfactants, counter ion binding to micelles, thermodynamics of micellization-phase separation and mass action models, solubilization, emulsions, micro emulsion. Wetting (spreading, adhesional and immersional wetting), Modification of wetting by surfactants. General consideration, Hard surface wetting and textile wetting.

UNIT-III

Voltammetry and Polarography

General introduction, Theoretical consideration of classical polarography, Polarographic currents, Effect of capillary characteristics on diffusion current, Residual current, Half wave potential. Effect of complex formation on polarographic waves and mixed anodic cathodic waves, oxygen waves, instrumentation, cell electrodes and their modifications, Application of polarography. Modified voltametric methods, viz current sampled polarography, pulse polarography, stripping methods, amperometric titrations and their applications.

UNIT-IV

Electro Analytical & Potentiometric Methods

Electrolytic and galvanic cell, Cell components, D.C. & A.C current in a cell, Reversible and irreversible cells, Nature of electrode potentials. Description of standard hydrogen electrode, Measurement of potentials, Sign conventions. E^0 values and their calculations. Effect of concentration on cell potentials. Concept of Liquid Junction potential. Ohmic potential (IR drop). Polarization (overvoltage) phenomenon and its theories, Limitation to the use of standard electrode potentials.

Reference electrodes (Calomel, Ag/AgCl, Tl/TlCl) Metallic indicator electrodes (first, second and third type). Metallic Redox indicator electrode: Membrane and ion selective electrodes: Principle and design. Glass electrode, Gas sensing probes. Enzyme electrode. Principle and applications of potentiometric methods.

Mapping of Paper No. MSc/Chem/4/DSC6-P

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	M	M	M	M	S	S
CO2	S	S	S	S	M	S	S	M	S	S	S	S
CO3	S	S	S	S	M	S	S	M	S	S	S	S
CO4	S	S	S	S	M	S	S	M	S	S	S	S
CO5	S	S	S	S	M	S	S	S	S	S	S	S
CO6	S	S	S	S	M	S	S	M	S	S	S	S
CO7	S	S	S	S	M	S	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Surfactants and Interfacial Phenomena, Milton J Rosen, Joy T Kunjappu, Wiley.
2. Modern Spectroscopy, J.M. Hollas, John Wiley.
3. Basic Principles of Spectroscopy, R.Chang, McGraw Hill.
4. Introduction to Molecular Spectroscopy, G.M. Barrow, McGraw Hill.
5. Physical Method in Chemistry, R.S. Drago, Saunders College.
6. An Introduction to Electrochemistry, S. Glasstone.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/DSC7-P
Physical Chemistry Special-VI

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Discuss the structure determination of solids.
- CO2 Understand the concept of Neutron and Electron diffraction methods.
- CO3 Discuss the scope of nanomaterials and its characterisation techniques.
- CO4 Discuss various terms about general properties of liquids.
- CO5 Describe different types of intermolecular forces in liquids.
- CO6 Introduce the basics of renewable energy source.
- CO7 Understand the basics of photovoltaics, thermodynamics of light conversion and factors affecting solar cell efficiency.
- CO8 Development of different types of solar cells and understand solar cell design.
- CO9 Know about concentrator photovoltaics and photovoltaics storage system.
- CO10 Discuss about thermodynamics principles in biological systems.
- CO11 Know about muscular contraction and energy generation in mechanochemical system.
- CO12 Describe optical techniques in biological systems.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT-I

Diffraction Methods

Lattice, Unit cell, Bragg's Law, Reciprocal lattice, Structure determination by X-ray diffraction, Powder method in detail, Structure of NaCl and KCl. Single crystal: Weissenberg method, Heavy atom method, Fourier synthesis factor. Brief method of intensity data collection, Neutron and electron diffraction methods, Comparison of XRD.

Chemistry of Nanomaterials

Definition, Historical perspective, Consequence of nanoscale, Nanoparticle morphology, Introduction to synthesis and characterization techniques for nanomaterials and applications of nanomaterials.

UNIT-II

General Properties of Liquids

Liquids as dense gases, liquids as disordered solids, some thermodynamics relations, internal pressure and its significance in liquids, equation of state, critical constants, Different types of intermolecular forces in liquids.

Ionic Liquids: The thermal dismantling of an ionic lattice, characteristics of ionic liquids, The fundamental problems in the study of pure liquid electrolytes, models of simple ionic liquids: lattice-oriented models (Vacancy model, Hole model), quantification of the hole model, The Furth approach to the work of hole formation, distribution function for the sizes of the holes.

UNIT-III

Renewable energy sources

Renewable energy resources: Biomass-Biofuels, Hydrogen, Solar energy. Related environmental and economic issues.

Introduction to Photovoltaics. Basic PV system design. Design and physics of solar cells, I-V characteristics, external and internal quantum efficiency. Thermodynamics of light conversion. Solar radiation and conversion efficiency. Factors influencing solar cell efficiency. Future trends in PV energy conversion. Silicon solar cells, alternatives to silicon, III-V materials for solar cells, thin film solar cells and third generation solar cells. Concentrator photovoltaics. Thermodynamic limit of light concentrators, Photovoltaics storage system.

UNIT-IV

Biophysical Chemistry

Chemical bonds in biological systems; Properties of water; Thermodynamic principles in biological systems; Osmotic pressure, membrane equilibrium, muscular contraction and energy generation in mechanochemical system. Introduction to protein folding problem. Cell Membrane and Transport of Ions: Structure and functions of cell membrane. Active transport across cell membrane, irreversible thermodynamics treatment of membrane transport.

Optical methods and applications: Optical techniques in biological systems: Absorption spectroscopy, Fluorescence spectroscopy, Linear and Circular Dichroism.

Mapping of Paper No. MSc/Chem/4/DSC7-P

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	M	S	S	M	S	S	S	S
CO2	S	S	S	S	M	S	S	M	S	S	S	S
CO3	S	S	S	S	M	S	S	M	S	S	S	S
CO4	S	S	S	S	M	S	S	M	S	S	S	S
CO5	S	S	W	S	M	S	S	S	S	S	S	S
CO6	S	S	W	S	M	S	S	S	S	S	S	S
CO7	S	S	S	S	M	S	S	M	S	S	S	S
CO8	S	S	S	S	M	S	S	M	S	S	S	S
CO9	S	S	S	S	M	S	S	M	S	S	S	S
CO10	S	S	W	S	M	S	S	S	S	S	S	S
CO11	S	S	W	S	M	S	S	S	S	S	S	S
CO12	S	S	S	S	M	S	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Principles of the Solid State, H.V. Keer, Wiley Eastern.
2. Instrumental methods of chemical analysis: Braun
3. Principles of Biochemistry, A.L. Lehninger, Worth Publishers.
4. Biochemistry, L. Stryer, W.H. Freeman.

5. Biochemistry, J.David Rawn, Neil Patterson.
6. Biochemistry, Voet and Voet, John Wiley.
7. Outlines of Biochemistry, E.E.Conn and P.K.Stumpf, John Wiley.
8. Bioorganic Chemistry: A Chemical Approach to Enzyme Action, H.Dugas and C. Penny, Springer-Verlag.
9. Macromolecules: Structure and Function, F.Wold, Prentice Hall.
10. Biophysical Chemistry, Vol. 1-3, C. R. Cantor & Schimmel.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/SEC3-P
Physical Chemistry Special Practical-II

Credits-4

Time: 8 Hrs./week

Max. Marks: 100

Course outcomes:

- CO1 Determine speed of sound of liquids using interferometer.
- CO2 Understand and master the fundamentals of potentiometric experiments.
- CO3 Determine equilibrium constants and dissociation constant of some organic liquids.
- CO4 Determine magnetic moment and magnetic susceptibility of Mohr's salt.

Syllabus -

Ultrasonic Interferometer

1. To find ultrasonic speed of given organic binary liquid mixtures of different composition.
2. To study the effect of temperature on ultrasonic speed of given organic mixture.

Potentiometry

1. Determination of temperature dependence of EMF of a cell.
2. To determine the thermodynamic parameter for a reaction from emf measurement.
3. To determine the formal potential of a redox couple, $\text{Fe}(\text{CN})_6^{3-}/\text{Fe}(\text{CN})_6$ in different media.
4. To determine the pH of a series of buffer solution by potentiometric method.
5. To determine the solubility product of AgCl and to determine instability constant of $\text{Ag}(\text{NH}_3)_2^+$ complex.
6. To determine the activity of hydrogen ion in acid medium using hydrogen electrode, hence to determine the ionic product of water and hydrolysis constant of sodium acetate.
7. To determine the degree of hydrolysis and hydrolysis constant of aniline, HCl by potentiometry.
8. To determine the concentration of a reductant or an oxidant i.e., Ferrous ammonium sulphate and Ceric sulphate by a potentiometric redox titration.
9. To determine the amount of KI and KCl present in a mixture by potentiometric titration.

Equilibrium and Dissociation Constant

1. To determine the equilibrium constant of an esterification reaction between acetic acid and ethanol.
2. To determine the equilibrium constant of the following reversible reaction:
$$2 \text{Ag}^+ + \text{CaSO}_4 \longrightarrow \text{Ag}_2\text{SO}_4 (\text{s}) + \text{Ca}^{2+}$$

Magnetic Moment and Magnetic Susceptibility

1. To determine the magnetic susceptibility of Mohr's salt at room temperature and hence the magnetic moment by using Gouy balance.

Note: Any experiment can be introduced or deleted in the practical class on the basis of availability of instruments/chemicals.

Data-Handling/Representation

Using origin-Lab draw/ EXCEL data in different styles of graphs.

Experiment & Written part

Marks: 70

Lab record

Marks: 10

Viva-voce

Marks: 20

Note: The evaluation will be done by external and internal examiners.

Mapping of Paper No. MSc/Chem/4/SEC3-P

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	M	-	S	S	S	S
CO2	S	S	S	S	S	S	S	M	S	S	S	S
CO3	S	S	S	S	S	S	M	-	S	S	S	S
CO4	S	S	S	S	S	S	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. Practical Chemistry, A. M. James, F. E. Prichard, Longman.
2. Practical Physical Chemistry, B. P. Levitt and Findley's, Longman.
3. Practical Physical Chemistry, S. R. Palit, S.K. De, Science Book Agency.
4. Experimental Physical Chemistry, R. C. Das, B. Behra, McGraw Hill.
5. Experiments in Physical Chemistry, Shoemaker and Gailand McGraw Hill.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/SEC4-P
Physical Chemistry Special Practical-III

Credits-4

Time: 8 Hrs./week

Max. Marks: 100

Course outcomes:

- CO1 Describe the concept of phase diagram for two and three component system.
- CO2 Demonstrate the effect of temperature on corrosion.
- CO3 Illustrate and master the fundamentals of conductometric titrations in aqueous media.
- CO4 Determine the thermodynamic parameter for reactions.

Syllabus –

Turbidimetry

1. To find the turbidity of given solution by using Nepheloturbidity meter.

Phase Rule

1. To verify the phase rule for a given two component Azeotropic mixtures.
2. To verify the phase rule for a given three component Azeotropic mixtures.
3. To determine the transition temperature of given salt hydrate like Sodium sulphate, Strontium sulphate or Sodium thiosulphate.
4. To determine the critical solution temperature of phenol water system.

Corrosion

1. To find corrosion rate of any metal or alloy in given acidic solution.
2. To study the effect of temperature on the corrosion rate.

Dipole Metry

1. To find dipole moment of given liquid such as Chlorobenzene, Chloroform,
2. Nitrobenzene etc. by using dipole meter.

Conductometry

1. Study of conductometric titration of NH_4Cl versus NaOH solution and comment on nature of graph.
2. Study of conductometric titration of CH_3COONa versus HCl and comment on nature of graph.
3. Study conductometric titration of MgSO_4 versus $\text{Ba}(\text{OH})_2$ and comment on nature of graph.
4. To study stepwise neutralization of polybasic acid i.e., oxalic acid, citric acid, succinic acid by conductometric titration and explain the variation in the graph.
5. To determine the relative strength of two acids using conductometer.
6. To determine the solubility of a sparingly soluble salt in water by conductance measurements.
7. Study conductometric titration of BaCl_2 and K_2SO_4 and comment on nature of graph.
8. To find CMC value of a given surfactant solution.

pH metry

1. To determine the thermodynamic parameter for a reaction from pH measurement.
2. To prepare a series of buffer solution and to check resist in its pH value by pH meter method.
3. To determine the degree of hydrolysis and hydrolysis constant of aniline, HCl by pH metrically.
4. To determine the concentration of a reductant or an oxidant i.e., Ferrous ammonium sulphate and Ceric sulphate by a pH metric titration.

5. To determine the amount of KI and KCl present in a mixture by pH metric titration.
6. To determine the strength of polybasic acid with the help of pH meter.

Note: Any experiment can be introduced or deleted in the practical class on the basis of availability of instruments/chemicals.

Data-Handling/Representation

Using origin-Lab draw/ EXCEL data in different styles of graphs.

Experiment & Written part

Marks: 70

Lab record

Marks: 10

Viva-voce

Marks: 20

Note: The evaluation will be done by external and internal examiners.

Mapping of Paper No. MSc/Chem/4/SEC4-P

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	M	M	S	S	S	S
CO2	S	S	S	S	S	S	S	M	S	S	S	S
CO3	S	S	S	S	S	S	S	M	S	S	S	S
CO4	S	S	S	S	S	S	S	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. Practical Chemistry, A. M. James, F. E. Prichard, Longman.
2. Practical Physical Chemistry, B. P. Levitt and Findley's, Longman.
3. Practical Physical Chemistry, S. R. Palit, S.K. De, Science Book Agency.
4. Experimental Physical Chemistry, R. C. Das, B. Behra, McGraw Hill.
5. Experiments in Physical Chemistry, Shoemaker and Gailand, McGraw Hill.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/DSC5-O
Organic Chemistry Special-IV

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course Outcomes:

- CO1 Become familiar with systematic (Hantzsch-Widman) nomenclature for monocyclic and fused ring systems.
- CO2 Understands the method of synthesis and the chemical reactions of three and four membered heterocyclic compounds such as oxirane, azirane, oxazirane, diaziridines, Oxetane and azetidine, thiirane.
- CO3 Describes the basic character, methods of synthesis and Reactions with mechanistic details of pyrazole, imidazole, oxazole, isoxazole, thiazole, isothiazole.
- CO4 Demonstrates the general method of synthesis and chemical reactions of purines and pyrimidines.
- CO5 Get to know mechanistic details of Arndt-Eistert synthesis Beckmann, Hofmann, Curtius, Lossen, Schmidt, Favorskii, Neber, Fritsch-Butenberg-Wiechell, Baeyer-Villiger, Benzil benzilic acid rearrangements, Mitsunabu, stroke enamine synthesis, Shapiro reaction.
- CO6 Understands the need of green chemistry and its principles.
- CO7 Get an elementary idea of green reagent, green solvent, green catalyst, solid phase, mw and ultrasound assisted.
- CO8 Discuss the concept of atom economy for different types of reactions.
- CO9 Apply concepts of green chemistry for the synthesis of Adipic acid and Ibuprofen.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT – I

Heterocyclic compounds

Systematic (Hantzsch-Widman) classification and nomenclature for monocyclic and fused ring systems. Criteria of Aromaticity (Bond length, Ring current, Chemical shifts in ¹H).

General synthesis and reactions (including mechanism) of the followings:

Three-membered heterocycles: oxirane, azirane, aziridines, oxazirane, thiirane, Diaziridines.

Four-membered heterocycles: Oxetane and azetidine.

UNIT – II

General synthesis and reactions (including mechanism) of the followings:

Five membered Heterocycles: Synthesis and reaction including mechanism of the following: Imidazole, Thiazole, Oxazole, Isoxazole, Isothiazole. Comparison of their basic character.

General synthesis and reactivity of purines and pyrimidines.

UNIT – III

Reactions & Rearrangements: A detailed study including mechanism, stereochemistry of following: Fritsch-Butenberg-Wiechell, Benzil- Benzilic acid, Favorskii, Arndt-Eistert synthesis, Neber, Beckmann, Hofmann, Curtius, Lossen, Schmidt, Baeyer-Villiger, Mitsunabu and Shapiro reaction, Stroke enamine synthesis.

UNIT – IV

Principle of Green chemistry and its applications

Basic Principle and need of green chemistry, Different tools for green synthesis (Elementary idea of green reagent, green solvent, green catalyst, solid phase, Microwave and ultrasound assisted) atom economy, synthesis involving basic principle of green chemistry-synthesis of adipic acid and BHC synthesis of Ibuprofen.

Mapping of Paper No. MSc/Chem/4/DSC5-O

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	M	S	M	S	M	M	S	S	S	S
CO2	S	S	M	S	M	S	M	M	S	S	S	S
CO3	S	S	M	S	M	S	M	M	S	S	S	S
CO4	S	S	M	S	M	S	M	M	S	S	S	S
CO5	S	S	M	S	M	S	M	M	S	S	S	S
CO6	S	S	S	S	S	S	M	S	S	S	S	S
CO7	S	S	S	S	S	S	M	S	S	S	S	S
CO8	S	S	S	S	S	S	M	S	S	S	S	S
CO9	S	S	S	S	S	S	M	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Heterocyclic Chemistry, T.L. Gilchrist, Longman Scientific Technical.
2. Comprehensive Heterocyclic Chemistry, A.R. Katritzky and C.W. Rees, eds. Pergamon Press.
3. Handbook of Heterocyclic Chemistry, Alan Katritzky, Christopher Ramsden, John A. Joule and Viktor Zhdankin, 3rd Edition, Elsevier.
4. Heterocyclic Chemistry, Volume I, Gupta, Kumar, Gupta.
5. Heterocyclic Chemistry, Volume II, Gupta, Kumar, Gupta.
6. Heterocyclic Chemistry, Volume III, Gupta, Kumar, Gupta.
7. Modern Synthetic Reactions, H.O. House, W. A. Benzamin.
8. Advanced Organic Chemistry Reactions, Mechanisms and Structures, J. March, Wiley.
9. Advanced Organic Chemistry Part B. F.A. Carey and R.J. Sundberg, Plenum Press.
10. Handbook of Green Chemistry- Green Catalysis- Paul T. Anastas, Robert H. Crabtree, Wiley-VCH.
11. Methods and Reagents for green synthesis: An introduction, Pietro Tundo, Alvise Perosa, F. Zecchin, Wiley.
12. Reactions, Rearrangements and Reagents, S N Sanyal.
13. Organic Name Reactions: A Unified Approach, Goutam Brahamchari.
14. Name Reactions: A Collection of Detailed Mechanisms and Synthetic Applications by Jie Jack Li from Springer.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/DSC6-O
Organic Chemistry Special-V

Credits-4

Time: 3 Hrs.

Course Outcomes:

Total Marks = 100

70 (EM) + 30 (IA)

- CO1 After completion of course the students will be able to apply the concepts of Disconnection approach for the synthesis of different target molecules in organic chemistry.
- CO2 Demonstrate about various terms used in disconnection approach like synthons, synthetic equivalents, functional group interconversions and importance of order of events.
- CO3 Understands about one group C-X and two group C-X disconnections, one group C-C disconnection.
- CO4 To understand the practical aspects of chemoselectivity, regioselectivity.
- CO5 Understand the concept of reversal of polarity and amine synthesis.
- CO6 Discuss the application of Wittig reagents and acetylene for the synthesis of alkenes.
- CO7 Understands the application of aliphatic nitro compounds in organic synthesis.
- CO8 Discuss two group C-C disconnection utilizing Diels Alder reactions, 1,3-difunctionalized compounds, unsaturated carbonyl compounds, 1,5-difunctionalized compounds, Michael addition and Robinson Annulation.
- CO9 Describes the strategy about control in carbonyl condensations.
- CO10 Understands the principles of protection and deprotection approach in synthetic organic chemistry with special reference to alcoholic, amino, carbonyl and carboxylic groups and able to apply in organic synthesis.
- CO11 Discuss the chemical and biological catalysis, nomenclature, and classification, of enzymes, Fischer's lock, and key and Koshland's induced fit hypothesis.
- CO12 Describe the kinetics of Enzyme catalyzed reactions, Michaelis-Menten and Lineweaver-Burk plots and kinetics of reversible and irreversible inhibition.
- CO13 Illustrate the mechanisms of enzyme catalyzed reactions, Transition-state theory, orientation and steric effect, acid-base catalysis, covalent catalysis, strain or distortion. To understand mechanism of action of chymotrypsin, carboxypeptidase A and Glucose-6-phosphate Isomerase.
- CO14 Describes about Cofactors as derivatives of vitamins & knowledge of coenzymes, prosthetic groups, apoenzymes. structure and biological functions and mechanisms of reactions catalyzed by coenzyme A, thiamine pyrophosphate, pyridoxal phosphate, NAD⁺, NADP⁺, FMN, FAD by the above cofactors.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT – I

Disconnection Approach-I

An introduction of synthons and synthetic equivalents, General principles of the disconnection approach, Functional group interconversions, Importance of order of events in organic synthesis, One group C–X and two group C–X disconnections, Chemoselectivity, Regioselectivity, Alcohols and carbonyl compounds, Reversal of polarity (Umpolung), Amine synthesis.

CO12	S	S	S	S	S	S	M	S	S	S	S	S
CO13	S	S	S	S	S	S	M	S	S	S	S	S
CO14	S	S	S	S	S	S	M	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Organic Chemistry, Vol. 2, I.L. Finar, ELBS.
2. Natural Products: Chemistry and Biology Significance, J. Mann, R.S. Davidson, J.B. Hobbs, D.V. Banthrope and J.B. Harborne, Longman, Essex.
3. Outlines of Biochemistry, Cohn & Stumpf.
4. Understanding Enzymes, Trevor Palmer, 3rd edition.
5. Principles of Biochemistry, A. L. Lehninger.
6. Biochemistry, L. Stryer, W.H.Freeman.
7. Biochemistry, J.David Rawn, Neil Patterson.
8. Biochemistry, Voet and Voet, John Wiley.
9. Designing Organic Synthesis, S. Warren, Wiley.
10. Advanced Organic Chemistry Part B. F.A. Carey and R.J. Sundberg.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/DSC7-O
Organic Chemistry Special-VI

Credits-4
Time: 3 Hrs.

Total Marks = 100
70 (EM) + 30 (IA)

Course outcomes:

- CO1 Demonstrate understanding of the basic principles of drug action, design and the terminology involved therein.
- CO2 Apply the knowledge of drug design in developing new drugs using rational approach to drug design.
- CO3 Describe synthesis, structure elucidation and medicinal uses of penicillins and cephalosporins as cell wall biosynthesis and protein synthesis inhibitors.
- CO4 Explain synthesis, general mode of action and medicinal uses of listed classes of drugs.

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

UNIT – I

Drug Design

Classification and discovery of new drugs, Therapeutic index, LD₅₀ and ED₅₀, Naming of (new) drugs.

Elementary idea about drug action: The receptor role, Neurotransmitters and Receptors, Ion channels and their control, Membrane bound enzymes: Activation/deactivation, Design of agonists and antagonists.

Drug development

Screening of natural products, Isolation and purification, Structure determination, Structure-activity relationships (SAR), Synthetic analogues, Isosteres and bioisosteres, Concept of lead compounds.

Brief overview of pharmacokinetics and pharmacodynamics, concept of prodrugs and synergism.

UNIT – II

Antibiotics

Penicillins and semi-synthetic penicillins: Synthesis, Structure elucidation and Medicinal uses of Penicillin, Streptomycin and Tetracyclins, Problems of sensitivity to acids, β -lactamases and narrow spectrum of activity of penicillin G, solving these problems leading to the development of penicillin V, oxacillin, cloxacillin, ampicillin, amoxicillin and carbenicillin.

UNIT – III

Synthesis, General Mode of Action and Medicinal Uses of Important Drugs in the Following Categories

Anti-inflammatory agents: Salicylic acid derivatives, Indomethacin, Antipyrine, Amino-antipyrine, Aminopyrine, Mefanamic acid, Ibuprofen, Diclofenac.

Cardiovascular Drugs: Calcium channel blockers and β -blockers: Sorbitrate and verapamil, atenolol.

AIDS and drugs against HIV: How HIV infect the system, Structure and mode of action of important drugs against HIV (nucleoside reverse transcriptase inhibitors): AZT, ddI, ddC, d4T and 3TC (synthesis only of AZT).

UNIT – IV

Synthesis, General Mode of Action and Medicinal Uses of Important Drugs in the Following Categories

Antineoplastic agents: Mechlorethamine, Cyclophosphamide, Chlorambucil, Aminopterin, 6-Mercaptopurine and Carmustine.

Antimalarials: Chloroquine, Primaquine, Chloroguanide, Pyrimethamine.

Oral Hypoglycemic Drugs: Insulin and Synthetic Hypoglycemic Agents: Glipizide, Tolbutamide, Tolazamide, Metformin.

Mapping of Paper MSc/Chem/4/DSC7-O

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	W	S	M	S	S	S	S	S
CO2	S	S	S	S	S	S	M	S	S	S	S	S
CO3	S	S	S	S	W	S	M	S	S	S	S	S
CO4	S	S	S	S	W	S	M	M	S	S	S	S

S = Strong, M = Medium, W = Weak

Suggested Readings:

1. Wilson and Gisvold's Text book of Organic Medicinal and Pharmaceutical Chemistry, Ed. Robert F.Dorge.
2. Burger's Medicinal Chemistry and Drug Discovery, Vol-I Ed.M.D. Wolf, John, Wiley.
3. Goodman and Gilman's Pharmacological Basis of Therapeutics, McGraw-Hill.
4. Introduction to Medicinal Chemistry, A. Gringuage, Wiley, VCH.
5. The Organic Chemistry of Drug Design and Drug Action, R. B. Silverman, Academic Press.

CO2	S	S	M	S	S	S	S	S	S	S	S	S
CO3	S	S	M	S	S	S	S	S	S	S	S	S
CO4	S	S	M	S	S	S	S	S	S	S	S	S
CO5	S	S	M	S	S	S	S	S	S	S	S	S
CO6	S	S	M	S	S	S	S	S	S	S	S	S
CO7	S	S	M	S	S	S	S	S	S	S	S	S
CO8	S	S	M	S	S	S	S	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. A Guide to spectroscopy in Organic Chemistry by PAVY
2. Spectrometric Identification of Organic Compounds, Fifth Ed., R.M. Silverstein, G.S. Bassler and T.C.Morrile, John Wiley and Sons, New York.
3. Organic Spectroscopy, 3rd Ed., by William Kemp. John Wiley & Sons.
4. Spectroscopic Methods in Organic Chemistry, D.H. William & Ian Fleming.
5. Vogel's Text Book of Practical Organic Chemistry by B.S. Furners et. al., Longman Group Ltd. "A Handbook of Organic Analysis Qualitative and Quantitative" by H.T. Clarke and revised by B.Maynes, Edward Arnold (Pub.), Ltd. London, 1975).
6. Elementary Practical Organic Chemistry by Arthur I.Vogel Longmans, Green and Co. 1958.
7. An Introduction to Practical Biochemistry, by David T. Plumm, Tata McGraw Hill Publishing Company, Ltd., N. Delhi, 1988.
8. Practical Organic Chemistry' by Mann and Saunders.
9. Textbook of Vogel's Practical Organic Chemistry by Longman Group, B.S. Furness et al., Ltd.

M.Sc. Chemistry (4th Sem.)
MSc/Chem/4/SEC4-O
Organic Chemistry Special Practical-III

Credits-4

Time: 8 Hrs./week

Max. Marks: 100

Course outcomes:

- CO1 Able to quantitatively estimate carbohydrates, ascorbic acid, amino acids, proteins, urea colorimetrically.
- CO2 Purifies natural products from raw material.
- CO3 Performs experimentation, evaluation, compilation and presentation of results.
- CO4 Skill development to explain the results.

Syllabus –

1. Colorimetric or Spectrophotometric (UV-Vis) determination of the following:

Carbohydrates
Ascorbic acid
Amino acids
Proteins
Urea

2. Extraction of organic compound from natural products:

- a. Caffeine from tea leaves.
- b. D (+) Glucose from cane sugar
- c. Cystine from human hair
- d. Isolation of nicotine from tobacco.
- e. Isolation of lactose from milk.
- f. Isolation of Casein from milk.
- g. Ascorbic acid from fruit juice.

Experiment & Written part

Marks: 70

Lab record

Marks: 10

Viva-voce

Marks: 20

Note: The evaluation will be done by external and internal examiners.

Mapping of Paper No. MSc/Chem/4/SEC4-O

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	S	S	S	S	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S	S	S	S	S
CO3	S	S	S	S	S	S	S	S	S	S	S	S
CO4	S	S	S	S	S	S	--	S	S	S	S	S

S = Strong, M = Medium, W = Weak

Books Suggested:

1. Elementary Practical Organic Chemistry by Arthur I. Vogel Longmans, Green and Co. 1958.
2. An Introduction to Practical Biochemistry, by David T. Plumm, Tata McGraw Hill Publishing Company, Ltd., N. Delhi, 1988.
3. Practical Organic Chemistry by Mann and Saunders.
4. Text Book of Vogel's Practical Organic Chemistry by Longman Group, B.S. Furness et al., Ltd.
5. Experiments in Organic Chemistry Louis F. Fieser O.C. Heath and Company Boston, 1955.
6. Organic Synthesis, Collective Vol. I.
7. Laboratory Manual in Organic Chemistry by R.K. Bansal, Wiley Eastern Ltd., New Delhi-1980.
8. A Handbook of Organic Analysis Qualitative and Quantitative by H.T. Clarke and revised by B. Maynes, Edward Arnold (Pub.), Ltd. London, 1975).
9. Systematic Qualitative Organic Analysis by H. Middleton, Edward Arnold (Publishers) Ltd., London 1959.
10. A Text Book of Practical Organic Chemistry including Qualitative Organic Analysis by Arthur I. Vogel, Longmans Green and Co., Ltd., London 1966.
11. Elementary Practical Organic Chemistry by Arthur I. Vogel, CBS Publishers & Distributors.

**Learning Outcomes based Curriculum Framework
(LOCF)**

For

**M.A. History & Archaeology
Post Graduate Programme**



**Department of History & Archaeology
Chaudhary Devi Lal University
Sirsa, Haryana- 125055
2021**

Anil Kumar

PILaji

J.S. Singh

A.S. Singh

M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/CC1 Course : Ancient Societies-1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and Class Attendance (05 marks). 		
Course Outcomes		
CO1	Enhancement of knowledge about Human society and various cultures from Stone Age to Iron Age, world-wide phenomenon.	
CO2	Discuss major cultural structures, events and than shaping the world context.	
CO3	Sharpens the understanding about different sources to understand the Ancient India (particularly Archaeological & Literary).	
CO4	Enrichment of knowledge about relation of different Civilizations to each other.	
UNIT-1		
Origin of Tool making, Palaeolithic Cultures of the World : Lower, Middle and Upper Palaeolithic, Mesolithic and Neolithic Cultures: Origin of agriculture and settled life, Chalcolithic cultures and craft specialization.		
UNIT-2		
Bronze Age Civilization in Mesopotamia: Origin of Early City States, Origin of Empires. (Sumerian and Akkadian) State Structure, Economy, Social Stratification and Religion.		
Bronze Age Civilization in Egypt: Origin, State Structure, Economy & Trade, Social life, Religion.		
UNIT-3		
Harappan Civilization: Pre-Harappan and Early Harappan Cultures, Origin, authors and extent of the Harappan Civilization, Development of Harappan Civilization, Trade, Economy, Social and Religious Life, Decline and Legacy of Harappan Civilization.		
UNIT-4		
Chinese Civilization: Beginning Middle Kingdom, Shang Civilization, Socio-Economic Life and Religious Beliefs		
Mayan Civilization: Socio-Economic Life, Arts, Science and Technology.		
Inca Civilization: Socio-Economic Life, Arts, Science and Technology.		

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Suggested Reading:

- Allchin, B&R, 1988, *The Rise of Civilization in India and Pakistan*, Cambridge University Press, Cambridge.
- Beers Burton F., 1993, *World History: Patterns of Civilization*, Prentice Hall, New Jersey.
- Child, V.G., 1964, *What Happened in History*, Penguin Books.
- Demarest, A.A., 2005, *Ancient Maya*, Stanford University Press, (6th ed.)
- Goyal, Shriram, 1994, *Vishva ki Prachin Sabhyatayen*, Vishvavidyalaya Prakashan Varanasi.
- Kramer, S.N., 1963, *The Sumerians*, University Press Chicago.
- Pathak, S.M., 1986, *Vishva ki Prachin Sabhyata ka Itihas*. Bihar Hindi Granth Academy, Patna.
- Possehl, G.L., 1982, *Harappan Civilization: A Contemporary Perspective*, American Institute of Indian Studies, New Delhi.
- Ray, Uday Narayain, 1982, *Vishva Sabhyata Ka Itihas*, Lok Bharti, Allahabad.
- Robert, J. 2009., *Daily Life in Inca Civilization*, Greenwood Press London.
- Sharer, Robert, J., 2009, *Daily Life in Maya Civilization*, Greenwood Press London. Sharer.
- Silverman, David, R. 1997, *Ancient Egypt*, Oxford University Press, Oxford.
- Singh, Purushottam, 1997, *The Neolithic Origins*, Agam Kala Prakashan, Delhi.
- Singh, Upinder, 2009, *A History of Ancient and Early Medieval India: from the Stone Age to the 12th Century*, Delhi: Pearson Longman.
- Spievogei, Jackson, 2007, *Ancient Civilization*, McGraw Hill, New York.
- Thapliyal, K.K. & Shukla S.P., 1976, *Sindhu Sabhyata*, Uttar Pradesh Hindi Granth Academy, Lucknow.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/CC2 Course : Medieval Societies-1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> Nine questions will be set in all and students will be required to attempt 5 questions. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes :		
CO1	Enhancement of knowledge about developments in Feudal India and Medieval India.	
CO2	Analyze and describe the Medieval State structure in Sultanate and Mughals.	
CO3	Sharpens the understanding about different sources to understand the Medieval India (particularly Archaeological & Literary).	
CO4	Enrichment of knowledge to understand the political institution of Medieval State i.e. Iqtadari, Mansabdari, Jagirdari, Zamindari.	
UNIT-1		
Structural Changes and Continuities: Characterising the Medieval India, Problem of Periodization and Transition from Ancient to Medieval Indian Society, Impacts of Advent of Turks, Theories on the Decline of Mughal Empire, 18 th Centurey Debate.		
UNIT-2		
Administrative Institutions: Iqtadari System, Mansabdari System, Jagirdari System, Zamindari Policy of Mughals.		
UNIT-3		
Economic Developments Urbanization and its Debate (Sultanate & Mughals), Technological Changes (Sultanate & Mughals), Village Community (Sultanate & Mughals), Potentialities of Capitalistic Development in the Economy of Mughal India (Debate).		
UNIT-4		
Social and Religious Salients: Medieval State and Religion (Sultanate & Mughal), Bhakti Movement, Sufi Movement, Literature and Cultural Development in South India (Under Bahmani & Vijyanager)		
Suggested Reading : <ul style="list-style-type: none"> Ali, M.Athar,1966, <i>The Mughal Nobility Under Aurangzeb</i>. Asia Publishing House, Bombay. Ashraf, K.M.,1970, <i>Life and Conditions of the People of Hindustan</i>, Munshiram Manoharlal,Delhi. Chandra Satish, 1987, <i>Essays in Medieval Indian Economic History</i>, Munshiram 		

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Manoharlal, Delhi.

- Chandra Satish, 1987, *Parties and Politics at the Mughal Court*, People's Publishing House, Delhi.
- Chandra Satish, 2003, *Essays on Medieval Indian History*, Oxford University Press, New Delhi.
- Datta, Rajat, 2008, *Rethinking A Millennium: Perspectives on Indian History from the Eight to Eighteenth Century*, Aakar Books, Delhi.
- Husain, Yusuf, *Glimpses of Medieval Indian Culture*, Asia Publishing House, Bombay.
- Irfan Habib(ed.), 2003, *Madhyakalin Bharat, Vols. 1-8*, Rajkamal Prakashan, Delhi.
- Jackson, Peter, 1999, *The Delhi Sultanate, A Political and Military History*, Cambridge University Press, New York.
- Kulke, Hermann (ed.), 1997, *State in India 1000-1700*, Oxford University Press, New Delhi.
- Mehta, J.L, 2012, *Madhyakaleen Bharat : Ek Sankshipt Itihas*, Arun Publishing House, Chandigarh.
- Mukhia, Harbans, 1993, *Perspectives on Medieval History*, Vikas Publication, New Delhi.
- Sarkar, Jadunath 1988-92, *The Fall of the Mughal Empire, 4 Vols*, Orient Longman, Delhi, (Fourth edn.)
- Siddiqui, I.H. (ed.), 2003, *Medieval India: Essays in Intellectual Thought Culture*, Munshiram Manoharlal Publisher, New Delhi.
- Singh, Upinder, 2009, *A History of Ancient and Early Medieval India: from the Stone Age to the 12th century*, Delhi: Pearson Longman.
- Streusand, Douglas E, 1989, *The Formation of the Mughal Empire*, Oxford University Press, Delhi.
- Verma, H.C. (Ed.), *Madhyakalin Bharat, Vols. 1 & 2*, Hindi Madhyam Karyanvaya Nideshalaya University of Delhi.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/CC3 Course : Modern World: Socio- Economic Trend	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Enhancement of knowledge about the various socio-economic trends in Modern Period.
CO2	Analyze and describe how the modern west was emerged through Renaissance and other socio-economic developments.
CO3	Sharpens the understanding about the rise of new order in the world in the form of Socialism and about the world crisis of 1919 and 1939 which led to World Wars.
CO4	Enrichment of knowledge to understand how the new political system emerged based on representative system.

UNIT-1

The Concept and Definition: What is World History?,

Rise of Modern World:

Renaissance, Reformation,

Age of mercantilism and the Beginnings of Capitalism:

Features of Mercantilism, Mercantile Activities of Different Countries, Beginnings of Capitalism

UNIT-2

Agricultural Revolution in Western Europe:

Agricultural System in Pre-Modern Period, Development of New Methods and Knowledge , Impact of the New Agriculture

Development of Science and Technology:

Its History, Technological Revolution, Impact of the Revolution.

UNIT-3

Development of Capitalism:

Britain, France, Germany, Japan

Development of Imperialism:

Geographical Expansion : Asia & Africa, Its Theories : Economic and Non-Economic

UNIT-4

Stages of Colonialism in India:

Mercantile Capital Stage, Industrial/Free Trade Capital Stage, Finance Capital Stage

The Far East and Western Economic Dominance:

Japan, China: Opium Wars and the Development of Treaty Port System

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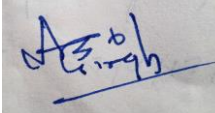
Suggested Reading :

- Bhaskar, Arvind, 2021, *Vishav Itihas*, Orange Publication Sikar.
- Carr, E.H., 1992, *The Bolshevik Revolution*, Vol. I, Pelican.
- Chandra, Bipan, 1996, *Nationalism and Colonialism in India*, New Delhi.
- Cipolla, C.M., 1976, *Fontana Economic History of Europe*, Vol. III, London.
- Desai, A.R., 1980, *Social Background of Indian Nationalism*, New Delhi.
- Dobb, Maurice, 1974, *Studies in the Development of Capitalism*, Paris.
- Dutt, R.P., 1976, *India Today*, New Delhi.
- Emerson, Rupert, 1990, *From Empire to Nation : The Rise to Self Assertion of Asian and African People*, OUP.
- Fairbank, John, K., 1987, *East Asia: Modern Transformation*, Tokyo.
- Hilton, Rodney, 1976, *Transition from Feudalism to Capitalism*, London.
- Hobsbawm, E.J., 1970, *Nation and Nationalism*, Cambridge.
- Joll, James, 1984, *Origin of the First World War*, New York.
- Jophson, Chatness A., 1984, *Peasant Nationalism and Communist Power: The Emergency of Red China 1937-1945*, London.
- Lichtheim, George, 1976, *A Short History of Socialism*, New York.
- Lucas. Colin, 1988, *The French Revolution and the Making of Modern Political Culture*, Vol. 2, Pergoman.
- Riasanovsky, N.V., 1984, *History of Russia*, OUP.
- Roth, J.J. (Ed.), 1967, *World War II: A Turning Point in Modern History*.
- Sanchuman, F., 2002, *International Relations*, Cambridge.
- Snyder, Louis L., 1996, *The Meaning of Nationalism*, Paris.
- Thompson, David, *Europe Since Napoleon*, New York.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/CC4 Course : State in India (E.T. to 1526 A.D.)-1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> Nine questions will be set in all and students will be required to attempt 5 questions. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes :		
CO1	Enhancement of knowledge about Institutional History that how the Institution of state rise and develop in India.	
CO2	Analyze and describe the emergence of the Mauryan and Gupta Empires during the Classical age in India	
CO3	Sharpens the understanding about the key facts of Indian Society and the rise of Technology and Commerce.	
CO4	Formulate logical arguments substantiated with Historical aspects.	
UNIT-1		
Towards Formation of State: Different Theories of the formation of State, Proto State, Chiefdoms of Later Vedic Times		
UNIT-2		
The Mauryan State: Central Administration, Provincial Administration, Military Administration The Gupta Polity Central Administration, Provincial Administration, Military Administration		
UNIT-3		
Delhi Sultanate: Islamic Theories of State and Kingship, Nature of State: Under the Mamluk, Khalji, Tuglaq, Saiyyad & Lodhi, Sources of the Legitimacy under the Sultans of Delhi, State and the Nobility (1200-1526 A.D.)		
UNIT-4		
State and the Ulemas, Delhi Sultanate: Central Administration, Provincial Administration, Military Organization.		
Suggested Reading: <ul style="list-style-type: none"> Altekar, A.S., 1986, <i>State and Government in Ancient India</i>, Motilal Banarsidass, Delhi. Bhandarkar, D.R., 1988, <i>Some Aspects of Hindu Polity</i>, B.R. Publishing Corporation, New Delhi. Chandra, Bipan, 1996, <i>Nationalism and Colonialism in India</i>, Delhi. Chandra, Satish, 1997, <i>Medieval India (From Sultanate to the Mughals, 1206-1526)</i>, 		

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Vol. I, Har-Anand Publications, Delhi (in Hindi also).

- Dishitar, V.R.R, 1993, *The Gupta Polity*, Motilal Banarsidass, Delhi.
- Dishitar, V.R.R. ,1993, *The Mauryan Polity*, Motilal Banarsidass, Delhi.
- Dutta, K.P. ,1973, *Administrative Aspects of Medieval Institutions in India*, J.K. Enterprises, Delhi.
- Ghosal, U.N., 1968, *A History of Indian Political Ideas*, Oxford University Press.
- Habib, Irfan,1981-2003, *Madhakaleen Bharat, Vols. I-VIII*, Raj Kamal Prakashan,Delhi.
- Habibullah, A.B.M. 1961, *The Foundation of Muslim Rule in India*, Central Book Depot, Allahabad, (in Hindi also).
- Sarkar, B.K., 1994, *Political Institution and Theories of the Hindus*, CC and Company Ltd., Calcutta, (reprint).
- Sharma, R.S., 1996, *Aspect of Political Ideas & Institutions in Early India*, Motilal Banarsidass Delhi, (4th Edn.).
- Tripathi, R.P., 1989, *Some Aspects of Muslim Administration*, Central Book Depot, Allahabad.
- Verma, H.C., 1983, *Madhyakaleen Bharat (750-1540AD)*, Vol. I, Hindi Madhyam Karyanvayan Nideshalaya, University of Delhi.

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A.S. Singh

M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/CC5 Course : History of Haryana (E.T. to 1526 A.D.)-1	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand the theme of regional history is explored through study of Haryana from stone age to independence of India.
CO2	Critically analyse the rise of various cultures are explored in the region of Haryana
CO3	Critically evaluate the efforts of the people of this region in the foreign invasions.
CO4	Critically analyse the rise of state formation and new power in the region of Haryana.

UNIT-1

Early Phase:

Sources of Ancient History of Haryana, The Stone Age, Harappan Civilization : General Features, Vedic Civilization : Origin and Development, Traditional History of the Kurus.

UNIT-2

Towards State Formation:

Origin and Development of Monarchy, Historicity of the Battle of Mahabharata, Yaudheyas, Agras and Kunindas, Pushpabhutis.

UNIT-3

Rise of New Powers:

Gurjara- Pratiharas, Tomaras, Chahmanas, The Battles of Tarain and their Impacts on Haryana.

UNIT-4

Sultanate Period:

Sources of Medieval History of Haryana, Haryana on the eve of Turkish Invasion, Delhi Sultanate and Haryana (1206-1526 A.D.), Revolts of Meos and Rajputs, Provincial Administration in Haryana (1206-1526 A.D.)

Suggested Reading :

- __ Glimpses of Haryana, Kurukshetra University, Kurukshetra, 1969.
- Buddha Prakash, *Haryana through the Ages*, Kurukshetra University, Kurukshetra, 1962.
- Das Gupta, K.K., *Tribal History of Ancient India*,
- Devahuti, D., *Harsha : A Political Study*, Oxford Clarendon Press, 1970.
- Dwivedi, H.N., *Dilli ke Tomar (736-1193)*, Vidya Mandir Prakashan, Gwalior, 1973.
- Goyal, J.B., (ed.), *Haryana-Puratattna, Itihas, Sanskriti, Sahitya evom Lokwarta*, Delhi, 1966.

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- Gupta, S.P. & Rama & Chandran, K.S., *Mahabharata: Myth and Reality*, Agam Prakashan, New Delhi, 1976.
- Phadke, H.A., *Haryana: Ancient and Medieval*, Harman Publication House, New Delhi, 1990.
- Phogat, S.R., *Inscriptions of Haryana*, Kurukshetra University Kurukshetra, 1978.
- Puri, B.N., *History of Gurjar-Pratiharas*, Munshiram Manoharlal, New Delhi, 1968.
- Sen, S.P. (Ed.), *Sources of the History of India, Vol. II*, Munshiram Manoharlal, New Delhi, 1979.
- Sharda, Sadhu Ram, *Haryana-Ek Sanskritik Adyayan*, Bhasha Vibhag, Haryana, Chandigarh, 1978.
- Sharma, D., *Early History of Chahamanas*, Delhi, 1959.
- Singh, Fauja (ed.), *History of the Punjab, Vol. I-III*, Publication Bureau, Punjab University, Patiala, 1997-2000.
- Suraj Bhan, *Excavations at Mithathal (1968) and other Explorations in Satluj Yamuna Divide*, Kurukshetra University, Kurukshetra, 1975.
- Tripathi, R.S., *History of Kanauj*, Munshiram Manoharlal, New Delhi, 1964.
- Yadav, K.C., *Haryana: Itihas evom Sanskriti, Part 1 & 2*, Manohar Publisher, New Delhi, 1994 (2nd Ed.)

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC1 Course : The Archive and Its Management (at World & National Archives of India)-1	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).
2. A study tour/trip in any Archive.

Course Outcomes :

CO1	Read seminal Historiographical interventions on critically reading the Archive.
CO2	Appreciate the importance of understanding the Archive not as a Neutral Repository of data but as knowledge, embedded in value laden power relations.
CO3	Understand the relationship between History and memory with a particular focus on institutions and practices of national commemoration and remembrance.
CO4	Understand the importance of non-documentary Archives by focusing on photography as an example of Visual Sources used by Historians.

UNIT-1

Reading and Understanding the Archive, History of Archival Legislation at World Level, International Organization of Archives,

History of Archives at: a) World b) India.

UNIT-2

National Archive of India: History, Record Repositories, Research & Facilities, Regional Offices of NAI and their Record Holdings Finding Aids at Archives, Security of Archives and its Holding, Principles of Archive Mangement.

UNIT-3

Difference between Museum and Archive, Process of Maintaining Archival Heritage at National Archives of India, Change of Sovereignty and its Impact on Archives,

Practices at N.A.I.: Archives Management, Record Management, Reprography, Conservation and ICT Practices (Practical)

UNIT-4

Difference between Archives and Library, Cataloguing and arrangement at Libraries, Difference between Museum and Library. **Ministry of Culture of India and its sub-department:** National Archives of India, National Museum & other museums, IGNC, N.M.M.L., Archaeological Survey of India.

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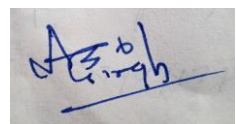
Suggested Reading:

- Basu, Purnendu, *Archives and Records: What are they ?* NAI Publication
- Bhargava, K.D., *An Introduction to National Archives of India*, NAI Publication
- Caroline Brown, 2014, *Archives and Recordkeeping Theory into practice*, Facet Publishing.
- Cook, Michael, *Archives Administration*, NAI Publication
- Foucault, Michel, (2002), *The Archeology of Knowledge*, London and New York: Routledge.
- Ghosh Sailen, *Archives in India*, NAI Publication
- Gregory Bradsher, *Managing Archives and Archival Institution*, NAI Publication
- Jenkinson, Hillary, *A Manual of Archives Administration*, NAI Publication
- Laura Millar, *Archives: Principles and Practices*, Facet Publishing
- Le Goff, Jacques, (1977), *History and Memory*, New York: Columbia University Press.
- Richard J. Cox, 2000, *Closing an Era: Historical Perspectives on Modern Archives and Records Management*, Greenwood Press.
- Richard J. Cox, 2002, *Managing Institutional Archives: Foundational Principles and Practices*, Greenwood Press,
- Richard J. Cox; David A., 2002, *Archives and the Public Good: Accountability and Records in Modern Society*, Wallace Quorum Books.
- Steedman, Carolyn, (2002), *Dust: The Archive and Cultural History*, New Brunswick: Rutgers University Press, 2002.
- David Thomas, Simon Fowler, Valerie Johnson, Anne J. Gilliland 2017, *The Silence of the Archive*, Facet Publishing.
- Trouillot, Michel Rolph., (1995), *Silencing the Past: Power and the Production of History*, London: Beacon Press.
- White, Hayden, (1980), *The Value of Narrativity in the Representation of Reality. Critical Inquiry*, 7(1), pp. 5-27.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC2 Course : Basics of Information and Technology (ICT)-1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> Nine questions will be set in all and students will be required to attempt 5 questions. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes :		
CO1	Understand the basic operating of computer and its various Software process.	
CO2	Understand the importance of computer in their study as well as their research field too.	
CO3	Unpack the complexities in the day by day Technical problem.	
CO4	Understand the Hardware components of Computer & the History of Computer.	
UNIT-1		
Computer System, An Overview: Hardware & Software, Applications of Computers in Different Fields, Characteristics of Computer		
UNIT-2		
MS Windows: Features of Windows, Getting Started with Windows, Managing Files and Folders		
UNIT-3		
Introduction to MS Office: Creating Document, How to Type in Word, Editing Document, Formatting the Document, Spell Check, Creating Tables, Saving the Document, Printing and Closing the Document		
Introduction to MS-Excel: Creating Document, Basics, Editing Cell Contents, Command for Worksheet, Charts in MS Excel		
UNIT-4		
Introduction to MS Power Point: Steps to Power Point Presentation, Physical Aspects of a Presentation, Creating New Presentation, Adding New Slides, Adding Illustration to Slides, Creating Slide Shows		
ICT Act 2000		
Suggested Reading: <ul style="list-style-type: none"> Balamurali,S.(1998), <i>An Introduction to Computer Science</i>, New Delhi: Vikas Publishing House. Lean and Loen,(1998), <i>Internet for Everyone</i>, New Delhi: Vikas Publishing House. Mattelart, Armond, <i>The Information Society</i>, New (2003) Delhi: Sage Publications Saxena, Sanjay,(1998), <i>A First Course in computer</i>, New Delhi: Vkas Publishing House. Singhal, A. and E.M. Rogers(2000), <i>India's Communication Revolution</i>, London: Sage Publications. 		

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC3 Course : Tourism Industry and Art and Architecture (E.T. to 1200AD)-1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> Nine questions will be set in all and students will be required to attempt 5 questions. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes :		
CO1	Be familiar with the major developments in Sculpture, Painting and Architecture during the early period of Indian history	
CO2	Understand the nomenclature- stylistic, dynastic and regional that is used to denote certain time periods and art production related to these.	
CO3	Able to trace the intertwined nature of art, religion and society in the period.	
CO4	Able to Understand the carrier possibilities in Tourism Industry through the Art and Architecture.	
UNIT-1		
Tourism Industry: Meaning, Area, History and Carrier Possibilities, Scope and Nature of Tourism in: a) Indian Art b) Architecture, Understanding and Interpretations of the Indian Art forms and Architecture & Monuments		
UNIT-2		
Pre Historic Tool Techniques Art, Pre-Historic Rock-art and Paintings, Art and Architecture of the Harappan Civilization: Urban Planning and Architecture, Seals, Bronzes, Pottery.		
UNIT-3		
Megalithic Culture's Architecture, Stupas, Chaityas and Viharas: their Architectural features (Select case studies from Bhurhut, Sanchi, Amaravati), Temple Structure: a) North Indian Temples b) South Indian Temples		
UNIT-4		
Architecture under the Sultanate: Mamluk, Khalji, Tughlaq, Sayyid and Lodi Dynasties, Mehrauli Archaeological Park and Its Historic Buildings, Regional Architecture – Vijayanagar and Sharqi		

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Suggested Reading:

- Barlingay, S.S., 2007, *A Modern Introduction to Indian Aesthetic Theory: The development from Bharata to Jagannatha*, New Delhi: D.K. Printworld.
- Berkson, Carmel, Wendy Doniger O'Flaherty, George Michell, 1983, *Elephanta, the Cave of Shiva*, Princeton University Press.
- Coomaraswamy, A.K., 1956, *The Transformation of Nature in Art*, New York: Dover Publications (also 2004 reprint of 1934 edn, Munshiram Manoharlal).
- Dehejia, Vidya, *Unseen Presence: The Buddha at Sanchi*, Marg Publications.
- Ghosh A. ed., 1996 (reprint of 1967), *Ajanta Murals*, New Delhi: Archaeological Survey of India.
- Gupte, R.S., 1972, *Iconography of the Hindus, Buddhists and Jains*, Bombay: D.B. Traporevala Sons and Co.
- Huntington, Susan L., 1985, *The Art of Ancient India*, New York and Tokyo: Weatherhill.
- Knox, Robert, 1993, *Amaravati: Buddhist Sculpture from the Great Stupa*, Dover Publications.
- Meister, M W ed., 1992, *Ananda Coomaraswamy: Essays in Early Indian Architecture*, New Delhi.
- Neumayer, Erwin, 2010, *Rock Art of India*, Oxford University Press.
- Ray, Niharranjan, 1974, *An Approach to Indian Art*, Chandigarh: Panjab University Publication Bureau.
- Schlingloff, Dieter, 1999, *Guide to the Ajanta Paintings: Narrative wall paintings*, Vol. 1, Delhi: Munshiram Manoharlal Pub.
- Settar, S. 2003, *Footprints of Artisans in Indian History: Some Reflections on Early Artisans of India*, Proceedings of the Indian History Congress, General President's Address, 64th session, Mysore, pp. 1-43.
- Shah, Priyabala, 1958, *Citrasutra of the Visnudharmottara Purana, third khanda*, Baroda.
- Singh, Upinder, 2009, *A History of Ancient and Early Medieval India: from the Stone Age to the 12th century*, Delhi: Pearson Longman.
- Spink, Walter, 2005-2007, *Ajanta: History and Development, Vols. I to V*, Leiden and Boston: Brill.
- Williams, Joanna G., 1982, *The Art of Gupta India: Empire and Province*, Princeton University Press.
- Willis, Michael, 2009, *The Archaeology of Hindu Ritual: Temples and the establishment of the gods*, Cambridge University Press.
- Zimmer, Heinrich., 1984, *Artistic Form and Yoga in the Sacred Images of India*, Princeton: Princeton University Press.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC4 Course : Record Management and its Practices-1	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).
2. A study tour/trip in any Archive/ Museum/ Library.

Course Outcomes :

CO1	Understand the importance of the record and its management in Government offices as well as in Private Offices.
CO2	Understand the need of Departmental Record Room and the duties of Departmental Record Officer.
CO3	Understand the filing system in Govt. Institutions.
CO4	Understand the classification of records and their management.

UNIT-1

Record Management: Definition of Record and Record Management, Why record management, History of Record Management in India (Ancient to Modern Era), Relevance and scope of Record Management at the World of Archives, Types/ Classification of Record and their Management, Management of Records: Creation to Disposition stages.

UNIT-2

Filing System in Offices, Forms Management in Offices, Audio-Visual Records and their Management, Departmental Record Room (DRR): Structure, Security and Implementation.

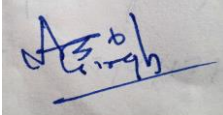
UNIT-3

Departmental Record Officer (DRO): Work & Duties at DRR, E-Records and their Management, Indexing of Records, Office Automation and its equipment.

UNIT-4

Record Centers: History, their establishment and their role in Archives Administration, Record Retention Schedule (RRS), Essentials & Precautions at Record Room, Challenges for Record Managers.

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Suggested Reading:

- Cook Michael, 1996, *Management of Information from Archives*, England Grover Publishing Company.
- Fiorella Foscarini, Heather MacNeil, Gillian Oliver and Bonnie Mak, 2016, *Engaging with Records and Archives: Histories and Theories*, Facet Publishing.
- Geoffrey Yeo and Elizabeth Shepherd, 2002, *Records: a handbook of principles and practice*, Facet Publishing.
- Gillian Oliver and Fiorella Foscarini, 2014, *Records Management and Information Culture: Talking the People Problem*, Facet Publishing
- Judith Read- Smith and Norman F. Kallaus, 1996, *Records Management*, South Western Educational Publishing
- Norman A. Mooradian, 2018, *Ethics for Records and Information Management*, ALA Neal-Schuman.
- Patricia C. Franks, 2018, *Records and Information Management*, Second Edition ALA Neal-Schuman.
- Richard J. Cox, 2001, *Managing Records as Evidence and Information*, Quorum Books.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC5 Course : Environmental Issues and Their Management		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes :		
CO1	Examine the Environmental Issues in Historical context.	
CO2	Analyze the awareness of environment in various time zones of History.	
CO3	Evaluate environment issues and challenges of Pre-Colonial India.	
CO4	Construct environment awareness and its connection to contemporary issues.	
UNIT-1		
Studying Ecology & Environment: An Introduction: Nature-Human Interface, Indian Landscape, Sources of Study Environment and Early Societies; Resource Use and Human Societies, Hunting – Gathering		
UNIT-2		
Environment and Agricultural Societies: Origins of Agriculture, River Valley Civilization, Agricultural Diffusion and Regional Specificities Appropriation of Environment – Other Forms: Energy Resources, Water Resources, Forest Resources, Metal & Mineral Resources		
UNIT-3		
Indian Philosophy and Environment Man-Nature Relationship, Conservation Through Ages, Colonialism and Environment, Modern Understanding of Environment, Environmental Agenda		
UNIT-4		
Modern Concerns Resource Management: Forests, Resource Management: Water, Development and Environmental Concerns, Biodiversity, Environmental Resources and Patents		

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Suggested Reading:

- Aagarwal Anil, 1985 , *The State of India's Environment*, The Second Citizens' Report, Delhi.
- Carson, R., 2002 , *Silent Spring*, Houghton Mifflin Harcourt.
- David Arnold & Ramchandran Guha, 1990, *Nature, Culture, Imperialism*, Delhi.
- Gleeson, B. and Low, N., 1996, *Global Ethics and Environment*, London, Routledge.
- M. L. Sengupta, R., 1998, *Ecology and economics: An approach to sustainable Development*, Calcutta.
- Madhav Gadgil & Ramchandran Guha, 1990, *This Fissured Land: An Ecological History of India*, Delhi.
- Madhav Gadgil & Ramchandran Guha, 1995, *Ecology and Equity: The use & abuse of nature in contemporary India*, OUP.
- McCully, P., 2000, *Rivers no more: The environmental effects of Dams (pp. 29-64)*, Zed Books,.
- McNeill, John R., 1987, *Something New Under the Sun: An Environmental History of the Twentieth Century*, Delhi,.
- Rao, M.N. & Datta, A.K., 2003, *WasteWater Treatment*, Oxford and IBH Publishing Co. Pvt. Ltd,
- Rosencranz, A., Divan, S., 2001, *Environmental law and policy in India*, OUP
- Thapar, V., 2006, *Land of the Tiger: A Natural History of the Indian Subcontinent*, New Delhi.
- Wilson, E. O., 1987, *The Creation: An appeal to save life on earth*, New York: Norton.
- World Commission on Environment and Development.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC6 Course : MOOC from SWAYAM Portal		Total Credits: 4 Time: Marks: External: Internal:
<u>Note: For The Paper Setter :</u>		
External:		
Internal:		
Course Outcomes :		
CO1		
CO2		
CO3		
CO4		
UNIT-1		
UNIT-2		
UNIT-3		
UNIT-4		

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/O9/OEC1 Course : History of Haryana (E.T. to 1526 A.D.)-1	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes:

CO1	Understand the theme of regional history is explored through study of Haryana from stone age to independence of India.
CO2	Critically analyse the rise of various cultures are explored in the region of Haryana
CO3	Critically evaluate the efforts of the people of this region in the foreign invasions.
CO4	Critically analyse the rise of state formation and new power in the region of Haryana.

UNIT-1

Early Phase:

Sources of Ancient History of Haryana, The Stone Age, Harappan Civilization : General Features, Vedic Civilization : Origin and Development, Traditional History of the Kurus.

UNIT-2

Towards State Formation:

Origin and Development of Monarchy, Historicity of the Battle of Mahabharata, Yaudheyas , Agras and Kunindas, Pushpabhutis

UNIT-3

Rise of New Powers:

Gurjara- Pratiharas, Tomaras, Chahmanas, The Battles of Tarain and their Impacts on Haryana,

UNIT-4

Sultanate Period:

Sources of Medieval History of Haryana, Haryana on the eve of Turkish Invasion, Revolts of Meos and Rajputs, Provincial Administration (1206-1526 A.D.)

Suggested Reading :

- __ *Glimpses of Haryana*, Kurukshetra University, Kurukshetra, 1969.
- Buddha Prakash, *Haryana through the Ages*, Kurukshetra University, Kurukshetra, 1962.
- Das Gupta, K.K., *Tribal History of Ancient India*,
- Devahuti, D., *Harsha : A Political Study*, Oxford Clarendon Press, 1970.
- Dwivedi, H.N., *Dilli ke Tomar (736-1193)*, Vidya Mandir Prakashan, Gwalior, 1973.
- Goyal, J.B., (ed.), *Haryana-Puratattna, Itihas, Sanskriti, Sahitya evom Lokwarta*, Delhi, 1966.

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- Gupta, S.P. & Rama & Chandran, K.S., *Mahabharata: Myth and Reality*, Agam Prakashan, New Delhi, 1976.
- Phadke, H.A., *Haryana: Ancient and Medieval*, Harman Publication House, New Delhi, 1990.
- Phogat, S.R., *Inscriptions of Haryana*, Kurukshetra University Kurukshetra, 1978.
- Puri, B.N., *History of Gurjar-Pratiharas*, Munshiram Manoharlal, New Delhi, 1968.
- Sen, S.P. (Ed.), *Sources of the History of India, Vol. II*, Munshiram Manoharlal, New Delhi, 1979.
- Sharda, Sadhu Ram, *Haryana-Ek Sanskritik Adyayan*, Bhasha Vibhag, Haryana, Chandigarh, 1978.
- Sharma, D., *Early History of Chahamanas*, Delhi, 1959.
- Singh, Fauja (ed.), *History of the Punjab, Vol. I-III*, Publication Bureau, Punjab University, Patiala, 1997-2000.
- Suraj Bhan, *Excavations at Mithathal (1968) and other Explorations in Satluj Yamuna Divide*, Kurukshetra University, Kurukshetra, 1975.
- Tripathi, R.S., *History of Kanauj*, Munshiram Manoharlal, New Delhi, 1964.
- Yadav, K.C., *Haryana: Itihas evom Sanskriti, Part 1 & 2*, Manohar Publisher, New Delhi, 1994 (2nd Ed.)

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/O9/OEC2 Course : History of India (E.T. to 1526 A.D.)-1	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand the sources of Indian History and critically evaluate the knowledge of Stone Age in India.
CO2	Critically analysed the Indus Civilization, Vedic and Post-Vedic Civilization.
CO3	Critically analysed the rise of Magadha Empire and Political condition of India on the eve of Alexander's Invasion
CO4	Critically analysed the Turk invasions and transition from Ancient to Medieval Indian History.

UNIT-1

Sources of Ancient Indian History, Pre- Historic India, Harappan Civilization: Origins, Extent, Town Planning, Economy, Vedic Culture: Polity, Society, Religion

UNIT-2

Rise of Magada Empire, Religious Movements: Buddhism and Jainism, Mauryan Empire: Polity, Administration, Society, Economy, Gupta Empire: State, Administration, Society, Economy

UNIT-3

Pushyabhus of Thanesar, Tri-Parties Struggle among Pratiharas, Palas and Rashtrakutas, Invasions of Mahmud Ghaznavi, Invasions Muhammad Ghori - Causes of Success and Impact

UNIT-4

Emergence of Delhi Sultanate: Mamluk, Khalji, Tuglaq, Saiyyed and Lodhi, Bahmani and Vijaynagar Kingdoms: Polity, Administration, Administration of Delhi Sultanate, Fall and Fragmentation of Delhi Sultanate

Suggested Reading :

- Allchin, B. and Allchin, F.R., *Rise of Civilization in India and Pakistan*, (Delhi : Select Book Services Syndicate, 1983)
- Ashraf, K.M., *Hindustan Ke Nivasiyon Ka Jivan Aur Paristhitiyan*, (Hindi)
- Ashraf, K.M., *Life and Conditions of the People of Hindustan*, (Delhi, 1965)
- Basham, A.L., *The Wonder That Was India*, (Mumbai, 1971)
- Basham, A.L., *The Wonder That Was India*, (Mumbai, Rupa, 1971)
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- Habib, Muhammad and Nizami, K.A., *Comprehensive History of India, Vol. V*, (Delhi, 1970)
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- Kasambi, D.D., *Prachin Bhartiya Sabhyata Evam Sanskriti*, (Hindi) (Delhi, Rajkamal)
- Kulke, H and Rothenmund, D., *History of India*, (London, 1998)
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- Panday, Vimal Chander, *Prachin Bharat Ka Rajnatik Tatha Sanskritik Itihas, Bhag - 2* (Hindi) (Allahabad, 1994)
- Rizvi, S.A.A, *The Wonder That Was India, Vol. 2*, (London 1987)
- Satish Chandra, *Madhya Kalin Bharat : Rajniti, Samaj Aur Sanskriti (Hindi)*, (Delhi, 2007)
- Satish Chandra, *Medieval India from the Sultanate to the Mughals*, (Delhi, 1997)
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- Shastri, K.A. Nilkanta, *A History of South India From Pre-Historic Times to the Fall of Vijaynagar*, (Chennai, 1983)
- Thapar, B.K., *Recent Archaeological Discoveries in India*, (Paris, UNESCO, 1985)
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- Thapar, Romila, *Aarambhik Bharat Ka Itihas*, (Delhi, Rajkamal)
- Thapar, Romila, *From Lineage to State : Social Formations in the Mid-first Millennium BC in the Ganga Valley*, Bombay : Oxford, 1984.

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M.A. History & Archaeology 2nd Semester Course Code : MA/H&A/2/CC6 Course : Ancient Societies-2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes:		
CO1	Critically evaluate the development of human society and various cultures from Stone age to Iron age, world wide phenomenon.	
CO2	Critically discuss major cultural structures, events and than shaping the world context.	
CO3	Evaluate and analyze different sources (particularly archaeological) in overseas.	
CO4	Critically evaluate the concept the decline of different civilizations and concept of relation of civilizations to each other.	
UNIT-1		
Iron Age Cultures in India: The beginning of Iron Age in India: Problems and Issues; Megalithic Culture of India : Origin, Distribution, Typology and Material Culture; Painted Grey Ware Culture : Distribution, Material remains; Second Urbanization.		
UNIT-2		
Iron Age Culture in Greece: Early Civilization in the Aegean; Greek City States (Athens and Sparta): Political, Social and Economic Life, Greeco-Persian Wars, Peloponnesian Wars; The Athenian Empire, Athenian Democracy, Contribution of Greek Civilization.		
Iron Age Culture in Rome: Roman Republic and Empire: Social and Economic Life; Science & Technology; Decline of Rome; Contribution of Roman Civilization.		
UNIT-3		
Indian State and Society (Vedic Times to Gupta Period): The Vedic Age: Society, State Structure, Economy, Religion; The Age of Reason and Revolt : Jainism and Buddhism; Agrarian Empires (Mauryan and Gupta): Society and Economy.		
UNIT-4		
Indian State and Society in Post Gupta Period: Urban Decay in India; Decline of Trade; Origin and Development of Feudalism in India; Nature of Indian Feudalism and Indian Feudal Debate.		

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Suggested Reading:

- Camp, John M., 1996, *Ancient Greece: From Prehistoric to Hellenistic Times*, Yale University Press.
- Goyal, Shriram, 1994, *Vishva ki Prachin Sabhyatayen*, Vishwavidyalaya Prakashan, Varanasi.
- Gupta, P.L. , 1979, *The Imperial Guptas: Cultural History*, Varanasi Vishwavidyalaya Prakashan.
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- Majumdar, R.C. , 1996, *The Vedic Age of History and Culture of the Indian People*, Bhartiya Vidya Bhawan.
- Mortimer, C. , 1963, *The Fall of Rome : Can it be Explained?*, Holt, Rinehart and Winston.
- Pathak, S.M. , 1986, *Vishva Ki Prachin Sabhyataon ka Itihas*, Bihar Hindi Granth Academy, Patna.
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- Rhys, T.S. , 1989, *Buddhism : Its History and Literature*, New York.
- Runnels, Curtis and M.Priscila, 2001, *Greece Before History, An Archaeological Companion and Guide*, Stanford University Press.
- Sharma, R.S. , 2005, *Indian Feudalism*, Macmillian India Ltd., New Delhi (Hindi also)
- Sircar, D.C. , 1966, *Land System and Feudalism in Ancient India India*, Centre of Advance Study in Anceitn Indian History and Culture.
- Swain, James E., 1984, *A History of World Civilization*, Eurasia Publishing House, New Delhi (5th Edn. reprint).
- Thakur, V.K. , 1981, *Urbanization in Ancient India*, Abhinav Publications, New Delhi.
- Thapar, Romila, 1990, *History of India, Vol. I*, Penguin Press.

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M.A. History & Archaeology 2nd Semester Course Code : MA/H&A/2/CC7 Course : Medieval Societies-2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Critically evaluate the various developments in feudal Europe, Islamic World and Medieval World.	
CO2	Critically evaluate the concept the decline of feudalism and advent of capitalism.	
CO3	Critically analyze and describe the rise of Middle East, Identify and describe the emergence of the Arab Caliphate, the Umayyad dynasty and abbasid dynasty.	
CO4	Evaluate and analyze the different aspects of administrative units specially in Indian context.	
UNIT-1		
Characterizing Medieval World: Preceptions and Reality, Transition from Ancient to Medieval World: Emergence of Feudalism in Western Europe, Feudal Debate, Peaseants and Nobility, System, Serfdom, Collapse of Feudalism.		
UNIT-2		
Religion: Christianity, State, Church and Society, The Mediterranean world and the Crusades.		
UNIT-3		
Arab World and Rise of Islam & Caliphate, Arab Conquest of Central Asia, Medieval Persia and Safavids.		
UNIT-4		
Medieval China: Tang to Manchu Dynasty, Medieval Japan: Shogunates, Safavid, Ottoman and Mughal Empire.		
Suggested Reading: <ul style="list-style-type: none"> • Anderson, P. ,1996, <i>Passage from Antiquity to Feudalism</i>, New Left Books, London. • Arnold, T.W. , 1999, <i>The Caliphate</i>, Oxford University Press. • Bloch, Marc. H. , 1961, <i>Feudal Society, 2 Vols</i>, Chicago University Press, Chicago. • Hitti, P.K. ,1948, <i>The Arabs: A Short History</i>, Macmillan and Company, London. • Holt, Peter Malcolm and A.K. Lambton , 1970, <i>The Cambridge History of Islam, 2 Vols</i>, 		

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Cambridge University Press, Cambridge.

- Levy, R. , 1969, *Social Structure of Islam*, Cambridge University Press, New York.
- Mukhia, Harbans, 2003, *The Feudalism Debate*, Manohar Publishing House, Delhi (in Hindi also)
- Pirenne, Henri , 2006, *Economic and Social History of Medieval Europe*, Routledge.
- Postan, M.M. ,1970, *Medieval Trade and Commerce*, Cambridge University Press, Cambridge.
- White, Jr., Lynn, 1973, *Medieval Technology and Social Change*, Oxford University Press.

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M.A. History & Archaeology 2nd Semester Course Code : MA/H&A/2/CC8 Course : Modern World (Political Trends)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes :		
CO1	Understand the various socio-economic trends in modern period.	
CO2	Critically evaluate how the modern west was emerged through renaissance and other socioeconomic developments.	
CO3	Critically analyses the rise of capitalism and imperialism led all these developments.	
CO4	Explain and analyses the rise of new order in the world in the form of socialism and about the world crisis of 1919 and 1939 which led to world wars.	
UNIT-1		
American Revolution, French Revolution: Aims, Achievements, Impacts; Development of Liberalism in Britain; Civil War in America.		
UNIT-2		
Russian Revolution-1917: Causes, Events and Impacts, Formation of the USSR; Debates on socialism and the role of the Communist International (Comintern)		
Theories of Nationalism: Italy & Germany.		
UNIT-3		
First World War Causes and Impacts; Peace Settlement; League of Nations, Fascism in Italy, Nazism in Germany,		
Second World War Causes and Impacts; Cold War; Non-Alignment Movement.		
UNIT-4		
Modernity, Rights and Democracy: The suffragette movement (England), Anti-colonial struggles (Indonesia), The formation of the United Nations, Art and politics (Picasso)		

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Suggested Reading:

- Anthony D. , 1983, *Theories of nationalism*, New York.
- Anthony D. , 2000, *The Nation in History*, Oxford.
- Bhaskar, Arvind, 2021, *Vishav Itihas*, Orange Publication Sikar.
- Carr, E.H. , 1966, *The Bolshevik, Revolution*, Vol. I, Pelican publication.
- Chandra, Bipan , 1996, *Nationalism and Colonialism in India*, Delhi.
- Cipolla, C.M., 1976, *Fontana Economic History of Europe, Vol. III*, Delhi.
- Desai, A.R. , 2005, *Social Background of Indian Nationalism*, Delhi.
- Dobb, Maurice , 1974, *Studies in the Development of Capitalism*, OUP.
- Dutt, R.P. , 2008, *India Today*, Delhi.
- Emerson, Rupert , 2013, *From Empire to Nation: The Rise to Self Assertion of Asian and African People*, Harvard University Press
- Fairbank, John, K., 1965, *East Asia: Modern Transformation*, New York.
- Hilton, Rodney , 1976, *Transition from Feudalism to Capitalism*, OUP.
- Hobsbawen, E.J. , 1970, *Nation and Nationalism*, Cambridge.
- Johnson, Chatness, A. , 1962, *Peasant Nationalism and Communist Power: The Emergency of Red China 1937-1947*, New York.
- Joll, James , 2013, *Origin of the First World War*, Routledge.
- Lichtheim, George , 1976, *A Short-History of Socialism*, OUP.

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M.A. History & Archaeology 2nd Semester Course Code : MA/H&A/2/CC9 Course : State in India (Mughals to Modern Times)-2	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes:

CO1	Evaluate and analyze of institutional history that how the institution of state rises and develop in India.
CO2	Critically evaluate the nature of the state changes with the time and dynasty.
CO3	Analyze the emergence of the Mauryan and Gupta empires during the classical age in India.
CO4	Identify and analyze key facets of Indian Society and the rise of technology and commerce.

UNIT-1

The Mughal State:

Nature of Mughal State; The Sources of Legitimacy under the Mughals; Central Administration; Provincial Administration; Military Administration.

UNIT-2

Administrative Institutions:

Jagirdari System; Mansabdari System; Zamindari System.

UNIT-3

Colonial State:

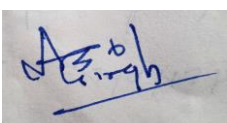
Political Economy; State Apparatus; Instruments of Legitimization.

UNIT-4

Independent India:

Constitutional Continuity; Constitutional Change; Visions of Modern Indian State: Nationalist; Communalist; Communist.

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Suggested Reading:

- Alam, Muzaffer ,2000, *The Mughal State*, Oxford.
- Anderson, Perry, 1987, *Lineages of the Absolutist State*, Cambridge.
- Athar, M. Ali, 1966, *The Mughal Nobility under Aurangazeb*, Asia Publishing
- Banerjee S.N., 2016, *A Nation in Making*, Kolkata.
- Chandra Satish, 1987, *Parties and Politics at the Mughal Court (1707-1747AD)*, Haranand.
- Day, U.N., 1994, *The Mughal Government*, New Delhi.
- Dodwell, H.H. (ed.) , 1990, *Cambridge History of India, Vol. V and VI*, Oxford Press.
- Douglas, Strensand, 1989, *The Formation of the Mughal Empire*, Oxford University
- Habib, Irfan, 2003, *Madhyakaleen Bharat. Vol. I to VIII*, Rajkamal prakashan, Delhi.
- Qureshi, I.H., 1966, *The Administration of the Mughal Empire*, Karachi.
- Richards, J.F., 1978, *Kingship and Authority in South Asia*, Modison.
- Saran, P. ,1988, *Provincial Govt. of the Mughals*, Delhi.
- Sutherland, L.,1952, *East India Company and the State*, Penguin Books.
- Verma, H.C.,1983, *Madhyakaleen Bharat, vols. 1& 2*, Hindi Madhyam Karyanvayan Nideshalaya University of Delhi.

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M.A. History & Archaeology 2nd Semester Course Code : MA/H&A/4/CC10 Course : History of Haryana (C. 1526 to 1947 A.D.)-2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> Nine questions will be set in all and students will be required to attempt 5 questions. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes:		
CO1	Understand the theme of regional history is explored through study of Haryana from Mughal to independence of India.	
CO2	Critically evaluate the efforts of the people of this region in the foreign invasions.	
CO3	Critically analyse the rise of state formation and new power in the region of Haryana.	
CO4	Evaluate and analyze the different aspects of Mughal to modern administrative units.	
UNIT-1		
Mughal Period: First and Second Battle of Panipat, Hemu's Life & Achievements; Revolt of Satnamis; Paragana Administration; Economy – Land Revenue System; Irrigation System; Bhakti and Sufi Movements.		
UNIT-2		
Politico-Religious Developments: Marathas Incursion; George Thomas; Sikh Intrusion; Arya Samaj; Sanatan Dharma Sabha; Development of Education & Literature.		
UNIT-3		
Political Movements: Revolt of 1857: Causes, events, nature & effects; Rise of Nationalism; Political Condition (1885-1919); Unionist Party and Sir Chhotu Ram.		
UNIT-4		
Gandhian Movements: Non-Cooperation; Civil Disobedience; Quit India Movement; Praja Mandal Movement.		
Suggested Reading: <ul style="list-style-type: none"> _____ <i>Revolt of 1857 in Haryana</i>, Manohar Publication, New Delhi Ashraf, K.M. , 1983, <i>Life and Conditions of the People of Hindustan</i>, Pearl Publication, Calcutta. 		

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- Datta, Nonica, , 1999, *Formation of an Identity : A Social History of Jats*, Oxford University Press, New York.
- Gupta, H.R., *The Marathas and Battle of Panipat*, New Delhi.
- Irfan, Habib ,1982, *Cambridge Economic History of India*, Cambridge University Press, Cambridge.
- Jagdish, Chander , 1982, *Freedom Struggle in Haryana*, Vishal Publication, Kurukshetra.
- Kenneth, W. Jones, *Arya Dharam*, Manohar Book Service, New Delhi.
- Mittal, S.C. , 1986, *Haryana: A Historical Perspective*, New Delhi.
- Phadke, H.A. , 1990, *Haryana: Ancient and Medieval*, Harman Publication, Delhi.
- Prem Chaudhary, 1985, *Punjab Politics: The Role of Sir Chhotu Ram*, Vikas Publishing House, New Delhi.
- Ranjeet Singh , 1966 , *Haryana ke Arya Samaj ka Itihas*, Rohtak (in Hindi)
- S.P. Shukla (ed.) , 1985, *Freedom Struggle in Haryana and the Congress, 1885-1985*, Published by Haryana Pradesh Congress (I) Committee.
- Shukla, S.P. , 1985, *India's Freedom Struggle and Role of Haryana*, Criterion Publication.
- Verma, D.C. , 1981, *Sir Chhotu Ram : His Life and Times*, Sterling Publication, New Delhi.
- Yadav, K.C. , 1975, *Rao Tula Ram and Revolt of 1857*, S. Parmod and Co. Jalandhar City.

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /2/ SEC7 Course : Archive and Its Management (at State Archives and Private Sector Archives)-2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Understand the State Archives and their Record Holdings.	
CO2	Understand the relationship between History and memory with a particular focus on institutions and practices of national commemoration and remembrance.	
CO3	Understand the importance of non-documentary Archives by focusing on photography as an example of Visual Sources used by Historians.	
CO4	Makes a clear vision between National Archives, State Archives and Private Archives.	
UNIT-1		
State Archives: Record Holdings, Repositories and Archive Management procedure of Haryana, Hyderabad, Uttar Pradesh, Punjab, Rajasthan, Delhi.		
UNIT-2		
Private Archives: An introduction to Private Archives, Private Archives at NAI, Acquisition and Accession Policy of Private Records; Access and Servicing of Private Records; Oriental Records or OR Division at National Archives of India.		
UNIT-3		
Accession and Arrangement of Business & Private Archives and their Uses; Microfilming practices of Private Record; The importance of Business & Private Archives for economic development and research; Finding Aids at Archives.		
UNIT-4		
Business Archives: Introduction to Business Archives; Business Archives in India i.e. TATA, SBI, Godredge, RBI etc; Types of Business Archives; Records Management in Business Houses from current to non-current stage. National Film Archives of Pune.		

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Suggested Reading:

- Basu, Purnendu, *Archives and Records: What are they?* NAI Publication
- Bhargava, K.D., *An Introduction to National Archives of India*, NAI Publication
- Caroline Brown, 2014, *Archives and Record keeping Theory into practice*, Facet Publishing.
- Cook, Michael, *Archives Administration*, NAI Publication.

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /2/ SEC8 Course : Information and Technology (ICT) and Contemporary World		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Understand the ICT and its importance in contemporary world.	
CO2	Understand the importance of ICT in their study as well as their research field too.	
CO3	Unpack the complexities in the day by day Technical problem.	
CO4	Understand the recent development in the field of ICT at world level.	
UNIT-1		
Functioning of Computers and Functional Components of a Computer System; History of Computer & its Generations; Benefits and Limitations of Computers.		
UNIT-2		
Basic Windows Accessories: Mouse Pointer, Control Panel , Creating Short Cuts; Shutting Down the Computer; Cyber Crime and Security of Digital Data; Computer Viruses.		
UNIT-3		
Classification of Computer; Operating System; User Interface & Number System.		
UNIT-4		
Email: Logging in and logging out; Attachments; Receiving and Sending E-mail.		
Suggested Reading: <ul style="list-style-type: none"> • Balamurali,S.(1998), An Introduction to Computer Science, New Delhi: Vikas Publishing House. • Lean and Loen,(1998), Internet for Everyone, New Delhi: Vikas Publishing House. • Mattelart, Armond, The Information Society New (2003) Delhi: Sage Publications • Saxena, Sanjay,(1998), A First Course in computer, New Delhi: Vkas Publishing House. • Singhal, A. and E.M. Rogers(2000), India's Communication Revolution, London: Sage Publications. 		

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /2/ SEC9 Course : Tourism Industry and Art and Architecture (Mughals to Modern Times)- 2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter:</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).		
Course Outcomes:		
CO1	Understand the diversification in the area of Art and Architecture.	
CO2	Understand the nomenclature- stylistic, dynastic and regional that is used to denote certain time periods and art production related to these.	
CO3	Interpretation of Indian cultural past through the Art and Architecture.	
CO4	Able to Understand the carrier possibilities in Tourism Industry through the Art and Architecture.	
UNIT-1		
Indian Textiles: Centers of Productions, Patterns of Trade and Distribution; Role of State, Position of Artisans and Merchants.		
UNIT-2		
Fine Arts: Major Schools of Paintings: Mughal, Rajasthani, Pahari, Garhwali; Development of Music.		
UNIT-3		
Mughal Architecture: Mosques, Tombs, Forts, Palaces, Public and Utilitarian Buildings, Gardens; City/ Building Planning and use of Science in the Mughal Architecture at : Fatehpur Sikri, Agra and Sahjahanabad.		
UNIT-4		
Indo-Saracenic Architecture: Origin, characteristics and major construction; Neo- Classical Architecture, Romanesque-Italianate, Art Deco and Post Independence style of Architecture.		
Suggested Reading : <ul style="list-style-type: none"> • Barlingay, S.S., 2007, <i>A Modern Introduction to Indian Aesthetic Theory: The development from Bharata to Jagannatha</i>, New Delhi: D.K. Printworld. • Berkson, Carmel, Wendy Doniger O'Flaherty, George Michell, 1983. <i>Elephanta, the Cave of Shiva</i>, Princeton University Press. • Coomaraswamy, A.K., 1956, <i>The Transformation of Nature in Art</i>, New York: Dover Publications (also 2004 reprint of 1934 edn, Munshiram Manoharlal). • Dehejia, Vidya, <i>Unseen Presence: The Buddha at Sanchi</i>, Marg Publications. 		

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- Ghosh A. ed., 1996 (reprint of 1967), *Ajanta Murals*, New Delhi: Archaeological Survey of India.
- Gupte, R.S., 1972, *Iconography of the Hindus, Buddhists and Jains*, Bombay: D.B. Traporevala Sons and Co.
- Huntington, Susan L., 1985, *The Art of Ancient India*, New York and Tokyo: Weatherhill.
- Knox, Robert, 1993, *Amaravati: Buddhist Sculpture from the Great Stupa*, Dover Publications.
- Meister, M W ed., 1992, *Ananda Coomaraswamy: Essays in Early Indian Architecture*, New Delhi.
- Neumayer, Erwin, 2010, *Rock Art of India*, Oxford University Press.
- Ray, Niharranjan, 1974, *An Approach to Indian Art*, Chandigarh: Panjab University Publication Bureau.
- Schlingloff, Dieter, 1999, *Guide to the Ajanta Paintings: Narrative wall paintings, Vol. I*, Delhi: Munshiram Manoharlal Pub.
- Settar, S. 2003, *Footprints of Artisans in Indian History: Some Reflections on Early Artisans of India*, Proceedings of the Indian History Congress, General President's Address, 64th session, Mysore, pp. 1-43.
- Shah, Priyabala, ed., 1958, *Citrasutra of the Visnudharmottara Purana, third khanda*, Baroda.
- Singh, Upinder, 2009, *A History of Ancient and Early Medieval India: from the Stone Age to the 12th century*, Delhi: Pearson Longman.
- Spink, Walter, 2005-2007, *Ajanta: History and Development, Vols. I to V*, Leiden and Boston: Brill.
- Williams, Joanna G., 1982, *The Art of Gupta India: Empire and Province*, Princeton University Press.
- Willis, Michael, 2009, *The Archaeology of Hindu Ritual: Temples and the establishment of the gods*, Cambridge University Press.
- Zimmer, Heinrich., 1984, *Artistic Form and Yoga in the Sacred Images of India*, Princeton: Princeton University Press.

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /2/ SEC10 Course : Record Management and Its Conservation	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Understand the importance of the record and its management in Government offices as well as in Private Offices.
CO2	Understand the Process of Conservation in Record Management.
CO3	Understand the importance of Course record as well as digital record/E-record.
CO4	Understand the challenges in the work of record management and its conservation.

UNIT-1

Record Management Practices Under the Government of India; Appraisal of the Record; Finding Aids; Special Type of Archives.

UNIT-2

Intellectual Property Rights (IPR); Intrinsic Value in Archival Material; Oral Records and their management; Principle of Arrangement of Record (International & India).

UNIT-3


Conservation:

Conservation : Meaning, need and its History; Conservation Process: a) Conservation b) Preservation c) Restoration; Factors of deterioration of Record; Precautions before Conservation.

UNIT-4

Writing material through the ages; Stationary Material & Tools and Accessories used in Repair Processes; Conservation Lab in Archives and their Importance; Repair Process.

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Suggested Reading:

- Cook Michael, 1996, *Management of Information from Archives*, England Grover Publishing Company.
- Fiorella Foscarini, Heather MacNeil, Gillian Oliver and Bonnie Mak, 2016, *Engaging with Records and Archives: Histories and Theories*, Facet Publishing.
- Geoffrey Yeo and Elizabeth Shepherd, 2002, *Records: a handbook of principles and practice*, Facet Publishing.
- Gillian Oliver and Fiorella Foscarini, 2014, *Records Management and Information Culture: Talking the People Problem*, Facet Publishing
- Judith Read- Smith and Norman F. Kallaus, 1996, *Records Management*, South Western Educational Publishing
- Norman A. Mooradian, 2018, *Ethics for Records and Information Management*, ALA Neal-Schuman.
- Patricia C. Franks, 2018, *Records and Information Management*, Second Edition ALA Neal-Schuman.
- Richard J. Cox, 2001, *Managing Records as Evidence and Information*, Quorum Books.

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /2/ SEC11 Course : Communication and Behavior Skills	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Understand the various Communication and Behaviour Skills.
CO2	Understand the importance Communication skills in Government offices as well as in Private Offices.
CO3	Demonstrate knowledge of various methods of communication.
CO4	Able to developed their Skills and as well as personality too.

UNIT-1

Communication Skills : Meaning, Process and Elements; Importance of Communication skills; Elements of Communication cycle: a) Sender b) Ideas c) Encoding d) Communication Channel e) Receiver f) Decoding g) Feedback; Methods of Communication. a) Verbal b) Non-verbal c) Visual.

UNIT-2

Perspectives in Communication; Factors affecting perspectives in Communication: a) Visual perception b) Language c) Past experience d) Prejudices e) Feelings f) Environment; Listening Skills; Barriers of Communication.

UNIT-3

Communication Skills: Meaning, Process and Elements; Importance of Communication skills; Barriers of Behaviour skills; Behaviour Skills Training Method.

UNIT-4

Teaching-Learning Process and Behaviour skills; Effective Teaching and Behaviour skills; Effective Learning and Behaviour skills; Behavioural Skills and Leadership.

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Suggested Reading:

- Barkhuysen, P., Krahmer, E., Swerts, M., (2004) *Audiovisual Perception of Communication Problems*, ISCA Archive <http://www.isca-speech.org/archive>
- Barnlund, D.C., (2008), *A transactional model of communication*, New Brunswick, New Jersey: Transaction
- Danesi, Marcel, (2009), *Dictionary of Media and Communications*, M.E.Sharpe, Armonk, New York.
- Fiske, John, (1982), *Introduction to Communication Studies*, London: Routledge
- Hayes, Andrew F., (31 May 2005), *Statistical Methods for Communication Science*, Taylor & Francis.
- Reddy, Michael J., (1979), *The Conduit Metaphor -A Case of Frame Conflict in our Language about Language*, In *Metaphor and Thought*, Andrew Ortony, ed. Cambridge
- Robbins, S., Judge, T., Millett, B., & Boyle, M., (2011), *Organisational Behaviour*, 6th ed. Pearson, French's Forest, NSW
- Rommetveit, Ragnar (1974), *On Message Structure: A Framework for the Study of Language and Communication*, London: John Wiley & Sons
- Schramm, W. (1954), *How communication works*. In W. Schramm (Ed.), *The process and effects of communication* (pp. 3–26), Urbana, Illinois: University of Illinois Press.
- Shannon, C.E., & Weaver, W., (1949), *The mathematical theory of communication*, Urbana, Illinois: University of Illinois Press
- Shannon, Claude E. & Warren Weaver, (1949), *A Mathematical Model of Communication*, Urbana, IL: University of Illinois Press
- Trenholm, Sarah; Jensen, Arthur, (2013), *Interpersonal Communication*, Seventh Edition. New York: Oxford University Press.
- Turner, L.H., & West, R.L., (2013), *Perspectives on family communication*, Boston: McGraw-Hill.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC12 Course : MOOC from SWAYAM Portal	Total Credits: 4 Time: Marks: External: Internal:
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Note: For The Paper Setter :

External:

Internal:

Course Outcomes :

CO1

CO2

CO3

CO4

UNIT-1

UNIT-2

UNIT-3

UNIT-4

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /E9/ OEC3 Course: History of Haryana (C. 1526 to 1947 A.D.)-2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter:</u>		
External: <ol style="list-style-type: none"> Nine questions will be set in all and students will be required to attempt 5 questions. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).. 		
Course Outcomes:		
CO1	Understand the theme of regional history is explored through study of Haryana from Mughal to independence of India.	
CO2	Critically evaluate the efforts of the people of this region in the foreign invasions.	
CO3	Critically analyses the rise of state formation and new power in the region of Haryana.	
CO4	Evaluate and analyze the different aspects of Mughal to modern administrative units.	
UNIT-1		
Mughal Period: First and Second Battle of Panipat, Hemu's Life & Achievements; Revolt of Satnamis; Paragana Administration; Economy– Land Revenue System; Irrigation System; Bhakti and Sufi Movements		
UNIT-2		
Politico-Religious Developments: Marathas Incursion; George Thomas; Sikh Intrusion; Arya Samaj; Sanatan Dharma Sabha; Development of Education & Literature.		
UNIT-3		
Political Movements: Revolt of 1857: Causes, events, nature & effects; Rise of Nationalism; Political Condition (1885-1919); Unionist Party and Sir Chhotu Ram.		
UNIT-4		
Gandhian Movements: Non-Cooperation; Civil Disobedience; Quit India Movement; Praja Mandal Movement.		

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Suggested Reading:

- _____ *Revolt of 1857 in Haryana*, Manohar Publication, New Delhi
- Ashraf, K.M. , 1983, *Life and Conditions of the People of Hindustan*, Pearl Publication, Calcutta.
- Datta, Nonica, , 1999, *Formation of an Identity : A Social History of Jats*, Oxford University Press, New York.
- Gupta, H.R., *The Marathas and Battle of Panipat*, New Delhi.
- Irfan, Habib ,1982, *Cambridge Economic History of India*, Cambridge University Press, Cambridge.
- Jagdish, Chander , 1982, *Freedom Struggle in Haryana*, Vishal Publication, Kurukshetra.
- Kenneth, W. Jones, *Arya Dharam*, Manohar Book Service, New Delhi.
- Mittal, S.C. , 1986, *Haryana: A Historical Perspective*, New Delhi.
- Phadke, H.A. , 1990, *Haryana: Ancient and Medieval*, Harman Publication, Delhi.
- Prem Chaudhary, 1985, *Punjab Politics: The Role of Sir Chhotu Ram*, Vikas Publishing House, New Delhi.
- Ranjeet Singh , 1966 , *Haryana ke Arya Samaj ka Itihas*, Rohtak (in Hindi)
- S.P. Shukla (ed.) , 1985, *Freedom Struggle in Haryana and the Congress, 1885-1985*, Published by Haryana Pradesh Congress (I) Committee.
- Shukla, S.P. , 1985, *India's Freedom Struggle and Role of Haryana*, Criterion Publication.
- Verma, D.C. , 1981, *Sir Chhotu Ram : His Life and Times*, Sterling Publication, New Delhi.
- Yadav, K.C. , 1975, *Rao Tula Ram and Revolt of 1857*, S. Parmod and Co. Jalandhar City.

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /E9/ OEC4 Course: History of India (1526 A.D. to 1947 A.D.) - 2	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes:

CO1	Understand about the, Impact of Turkish Conquests, rise of Mughal and fall of Mughal State.
CO2	Critically analysis the conquest and expansion of Mughals and amylases their political, social, economical and cultural phenomena.
CO3	Understand the Pre- Colonial Rule and Establishment of the British power.
CO4	Understand about the Indian Nationalism, Indian National congress and Indian National Movement.

UNIT-1

Mughal Dynasty: Babar to Aurangzeb (1526-1707 A.D.); Administration of Mughals; Bhakti Movement; Sufism : Major Silsilas in India.

UNIT-2

Decline of the Mughal Emire; 18th Century in Indian History; Battle of Plassey; Battle of Buxar.

UNIT-3

The Revolt of 1857; Rise of Indian Nationalism; Indian National Congress; Jalia Wala Bagh Incident and Khilafat Movement.

UNIT-4

Gandhian Movement's : Non-Cooperation, Civil Disobedience, Quit India Movement; Indian Revolutionary : Bhagat Singh and HSRA; Partition of India; Making of Indian Constitution.

Suggested Reading:

- Bayly, Susan, *Caste Society and Politics in India: The New Cambridge History of India*, OUP.
- Mishra, Girish, *Economic History of Modern India*, ICHR Publication.
- Mittal, S.C., *Bharat Ka Saamajik aur Aarthik Itihas (1758-1947)*, Munshiram Manoharlal.
- Nanda, B.R., *Jawaharlal Nehru : A Biography*, Penguin.

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- Nurullah, S. & J.P., *Naik History of Education in India*, HarAnand
- Omvedt, Gail, *Dalits and Democratic Revolution : Dr. Ambedkar and Dalit Movement in Colonial India*,
- Rai, Satya M.(ed.), *Bharat Mein Upniveshwad Aur Rashtrawad*, Orient Blackswan (Hindi)
- Raychaudhuri, Tapan and Irfan Habib, *The Cambridge Economic History of India, Vol. I*, Cambridge University Press.
- Sen, Sunil, K., *Agrarian Relations in India, 1793-1947*, OUP.
- Shukla, R.L. (ed.), *Adhunik Bharat Ka Itihas*, Hindi Madhyam Karyalaya Anveshan (Hindi,)
- Sarkar Sumit, *Aadhunik Bharat*, Rajkamal Parkashan

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A/3/CC11 Course: Historiography: Concepts, Methods & Tools-1	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes:

CO1	Developed their ability to assess critically historical analysis and argument, past and present.
CO2	Gained an understanding of the development of the academic study of history throughout the world since the later eighteenth century.
CO3	Gained an awareness of recent and contemporary debates in the theory, practice of historical writing and gained debate in history thinker.
CO4	Gained insight into how historical arguments have been and are made become aware of Historiographical traditions outside the West.

UNIT-1

History Definition and Scope

The Major Trends in History:- From the Earliest times to Positivism and Documented History, From Political/ Military to Social History, The New Trends : Post-modernism and Gender.

Some Major Thinkers on History

The Khaldun (1332-1406) , G.W.F. Hegal (1770-1831), Karl Marx (1818-83)

UNIT-2

Sources and their evaluation

Collection and Selection of Data, Kinds of evidence, External/ Internal Criticism of sources

Methodology

Generalization, Causation, Objectivity

UNIT-3

The Pre-modern Traditions of Historical Writing

A. Early Tradition

Greeco-Roman Traditions, Chinese Traditions, Ancient Traditions

B. Medieval Traditions

Western, Arabic & Persian, Indo-Persian

UNIT-4

History Writings and use of Literature (Selection of Data & Limitations), Historical Sources : Oral & Audio Visual Records, History and Allied Disciplines of Archaeology, Geography; Sociology, Anthropology; Psychology and Economics

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Suggested Reading:

- Alvesson Mats, 2002, *Postmodernism and Social Research*, OUP.
- Bentley, Michael, 1997, *Companion to Historiography*, London.
- Canon, John (ed.) , 1980, *The Historians at Work*, London.
- Carr, E.H. , 1983, *What is History*, Macmillan, London.
- Chaube, Jharkhande , 1999, *Itihaas - Darshan*, Delhi.
- Collingwood, R.G. , 2004, *The Idea of History*, OUP.
- Gardiner, Patrick (ed.) , 1969, *Theories of History*, New York.
- Hobsbawm, Eric J. , 2003, *Itihaskar ki Chinta*, Delhi.
- Hughes-Warrington-Marine , 2004, *Fifty Great Thinkers on History*, Delhi.
- Lambert, Peter and Phillip Scofield, 2004, *Making History An Introduction to the Practices of a Discipline*, Paris.
- Marwick, Arthur , 1984, *The Nature of History*, Macmillan, London.
- Marwick, Arthur, 2001, *New Nature of History: Knowledge, Evidence, Language*, London.
- Sheikh Ali, B. , 1978, *History: Its Theory and Method*, Macmillan, Madras.
- Sreedharan, E. (2004) , 2000, *A Textbook of Historiography 500 BC to AD 2000*, Delhi.
- Verma, Lal Bahadur, 1984, *Itihas Ke Bare Mein*, Delhi.

Ignou Booklets

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A/3/CC12 Course: Sources of Indian History (E.T. TO 1947 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).
2. A study tour/trip in any Archive/Museum.

Course Outcomes:

CO1	To provide information to the students about the archaeological evidence received from the ancient times like coins, weapons, tools and pots.
CO2	To provide knowledge of historical, literary and religious texts of ancient India.
CO3	To provide information to the students about sufficient historical critically sources and evidences of medieval India.
CO4	To provide information about the latest and sufficient evidence obtained from the British rule in India.

UNIT-1

Archaeological Sources:

Stone Tools, Pottery, Coins, Inscriptions, Manuscripts.

Literary Sources:

Vedic Literature, Epics, Puranas, Arthashastra, Buddhist and Jain Sources, Snagam Literature

UNIT-2

Biographical writings and Foreign Accounts:

Arthashastra, Harsacharita, Rajtaringini, Megasthenes, Huen-Tsang, Al-Beruni, Ibn Batuta, Francois Bernier

UNIT-3

Historians and Sources of Medieval India:

Minhaj-us-Siraj: Tabaqat-i-Nasiri, Ziauddin Barani: Fatwa-i-Jahandari, Ameer Khusarau, Babur: Tuzak-i-Baburi, Abul Fazal : Akbar Nama (3 Vols), Tuzak-i-Jahangiri, Muraqqa-e-Delhi, Farmans, Nishans and Parwanas.

UNIT-4

Sources of Modern India:

Archival Records, Private Paper: Official and Non-Official, News Papers and Periodicals, Audio-Visual Records, Oral Records.

Suggested Reading:

- Aggarwal, V.S. , 1965, *Studies in Indian Art*, Varanasi.
- Akbar S. Ahmed, 1990, *Discovering Islam: Making Sense of Muslim History and Society*, New Delhi.

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- Birani, Ibn-i-Hasan, 1990, *Maqalat-i-Barani-Karachi*, New Delhi.
- Elliot, Sir H.M. & J. Dowson, 1867-77, *History of India as Told by its Own Historians*, 8 vols.
- Grewal, J.S. , 1970, *Muslim Rule in India: The Assessment of British Historians*, Calcutta.
- Hasan, Mohibut(ed.) ,1968, *Historians of Medieval India*, Meerut.
- Ibn, Khaldum, 1958, *Muqaddimah: An Introduction to History*, Eng. Tr. Ero Franz Rosenthal, London.
- Majumdar, R.C. & S.P.Sen(ed.) ,1970, *Indian Historiography: Some Recent Trends in Modern India*, Bombay.
- Majumdar, R.C. ,1960, *Classical Accounts of India*, Calcutta.
- Mukhia, Harbans, 1976, *Historians and Historiography During the Reign of Akbar*, New Delhi.
- Pargiter, F.E. ,1913, *Dynasties of Kali Age*, London.
- Pargiter, F.E. ,1922, *Ancient Indian Historical Tradition*, London.
- Philips, C.H.(ed.),1961, *Historians of India, Pakistan and Ceylon*, London.
- Rosenthal, F. , 1952, *History of Muslim Historiography*, London.
- Sankalia, H.D. ,1964, *Stone Age Tools, their Techniques and Uses*, Pune.
- Sarkar, Jagdish Narayan, 1977, *History of History Writings in Medieval India*, Calcutta.
- Siraj, Minhaj-us, 1969, *Tabaqat-i-Nasiri*, (Eng. Tr.H.G. Revert 2 Vols.) Calcutta.
- Sircar, D.C. , 1965, *Indian Epigraphy*, Delhi.
- Sivarammaurti, C. , 1964, *Indian Sculpture*, New Delhi.
- Thapar, Mukhia & Chandra, 1969, *Communalism and the Writings of Indian History*, New Delhi.
- Tikekar, S.R. , 1964, *On Historiography*, Bombay.
- Winternitz, M., 1963-67, *History of Indian Literature*, 3 Vols, New Delhi.

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A/3/CC13 Course: Contemporary History of India (1948-2000 A.D.)	Total Credits: 2 Time: 3 Hrs. Marks: 50 External: 30 Internal: 20
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Note: For The Paper Setter :

External:

1. Five Questions will be set in all and students will be required to attempt 3 questions.
2. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus.
3. In addition, four more questions will be set unit-wise comprising of two questions from each unit. The candidates are required to attempt two more questions selecting at least one from each unit. (10 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (10 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand the Post-Modern History of India.
CO2	Trace the political situation, developments of Contemporary India.
CO3	Compare, connect and contrast economic performance of contemporary India with Colonial India.
CO4	Create a better Historiographical understanding in the Contemporary History period.

UNIT-1

Laying the foundation of independent India, Features of Indian Constitution, The Constitution: nationality and citizenship, Linguistic re-organisation, Integration and Reorganization of Indian States, Operation Polo, Socio- Economic Reforms and Foreign Policy, Foreign policy and the making of non-alignment

UNIT-2

Envisioning a new economic order:

Agriculture and industry; Five Year Plans, Green Revolution, Abolition of Privy Purses and Titles; Nationalization of Banks; The Emergency, Janata Government; Return of Congress to power ; Foreign Policy.

UNIT-3

Democracy at work:

Congress and other political formations: Left parties, Naxalbari, Caste politics, Dravidian movement, Women and politics: Hindu Code Bill, Status of Women Report Political Developments, Relations with Neighboring Countries, Liberalization, Privatization and Globalization

UNIT-4

Crisis and after:

Railway Strike, J.P. Movement and Emergency, Developments in the 1980's: Coalition politics; Mandal Commission and aftermath, Responding to new global alignments: Neo-liberalism, Communalism and Separatist Movements, Women Empowerment and Policy of Reservation, Ayodhya Verdict.

Suggested Reading:

- Bates, Crispin, and Subho Basu, *The Politics of Modern India since Independence*, Routledge/Edinburgh South Asian Studies Series, 2011.
- Bipan Chandra, Mridula Mukherjee and Aditya Mukherjee, *India Since Independence*, New Delhi, 2008.
- Brass, Paul R. *The Politics of India since Independence*, 1980.

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- C.P.Bhambhri ,1995, *Indian Politics since Independence Vol : I* , NewDelhi
- Dalmia, Vasudha and Rashmi Sadana (editors), *The Cambridge Companion to Modern Indian Culture*. Cambridge University Press.
- Ghai, K.K., 2012, *Indian Government and Politics*, New Delhi, 1912.
- Guha, Ramachandra, 2011, *India After Gandhi: The History of the World's Largest Democracy*. Pan Macmillan
- Palmar D.Norman, 1971, *The Indian Political System* , 2nd Ed.,Boston.
- Partha Chatterjee, 2002, *State and Politics in India* , New Delhi.
- Publication Division, *India : 40 years of Independence*.
- Publciation Division Ministry of Brodcasting GOI, *Era of Rapid Change, 1947 – 1971*.
- S.Gopal, 1956, *Jawaharlal Nehru , A Biography , Vol:I* ,1889- Cambridge.
- V.D. Mahajan , *Contemporary History of India*, Chand & Company, New Delhi. Vol. I & II

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M.A. History & Archaeology 3rd Semester Group-A (Indian Archaeology) Course Code : MA/H&A /3/DSC1 Course: Pre-History and Proto-History of India	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes:

CO1	Understand critically evaluate the knowledge of human evolution in world scenario as well as India.
CO2	Understand critically evaluate the knowledge of Paleo-environment during Stone Age in India especially from- Sohan, Narmada, Godavari and Kotlayar valleys.
CO3	Understand familiarize with the Lower, Middle and Upper Palaeolithic, Mesolithic and Neolithic cultures of India distribution, environment, typo-technology of tools, subsistence, art, chronology, evidences from important sites.
CO4	Familiarize the Harappan Culture - Origin, extent, chronology, factors of urbanization, trade, script, religion, arts and craft, factors of decline.

UNIT-1

Prehistory of India:

Aims, Scopes and Methods; Climatic Fluctuation during the Pleistocene Period; General Background of World Prehistory; Stone-age, Tools, Techniques and Probable Uses.

UNIT-2

Lithic Culture of India:

Lower Palaeolithic- Potwar Region, Beas & Banganga Valley, Narbada Valley, South India; Middle Palaeolithic Culture in India; Upper Palaeolithic Culture in India; Mesolithic Culture in India; Neolithic Culture in India.

UNIT-3

Proto-History of India:

Aims, Scope & Methods; Harappan Civilization; Chalcolithic Cultures: Rajasthan, Central India and Deccan.

UNIT-4

Iron-Age Culture:

Antiquity of Iron in India; PGW (Painted Grey Ware); South Indian Megalithic Culture.

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Suggested Reading:

- Agrawal, D.P. & Ghosh A. (ed.) , 1973, *Radiocarbon and Indian Archaeology*, Bombay.
- Agrawal, D.P. , 1984, *The Archaeology of India*, New Delhi.
- Allchin, B & R, 1989, *The Rise of Civilization in India and Pakistan*, New Delhi.
- Allchin, F.R. , 1997, *Origins of a Civilization*, Delhi.
- Chakrabarti, D.K. (ed.) , 1979, *Essays in Indian Proto-history*, Delhi.
- Deo, S.B. , 1973, *Problem of South Indian Megaliths*, Karnataka University Press, Dharwar.
- Gaur, R.C. (ed.) , 1994, *The Painted Grey Ware: Proceedings of the Seminar*, Jaipur.
- Gururaja Rao, B.K, 1981, *The Megalithic Culture in South India*, Mysore.
- Jain, K.C., 1979, *Prehistory and Proto-History of India*, Agam Kala Prakashan, New Delhi.
- Ratnagar, S. , 2000, *The End of the Great Harappan Tradition*, New Delhi.
- Ratnagar, S. , 2001, *Understanding Harappa*, New Delhi.
- Roy, T.N. , 1982, *The Ganges Civilization*, New Delhi.
- Sankalia, H.D. , 1964, *Stone Age Tools: their Techniques, Name and Probable Function*, Pune.
- Sankalia, H.D. , 1974, *Prehistory and Proto-history of Indian and Pakistan*, Pune.

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M.A. History & Archaeology 3rd Semester Group-A (Indian Archaeology) Course Code : MA/H&A /3/DSC2 Course: Ancient Indian Epigraphy and Paleography-I		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter:</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes:		
CO1	Critically analyze the Inscriptions as a source of Indian History.	
CO2	Understand the Origin and antiquity of art of writing in India as well as origin of Brahmi Script and Kharoshthi Script.	
CO3	Critically analyze the various aspect of inscriptions and their importance as a source of Indian History.	
CO4	Understand the decipherment and transliteration of Brahmi and Kharoshthi script.	
UNIT-1		
Inscriptions as a source of Indian History; Origin and antiquity of the art of writing in India; Origin of Brahmi script; Origin of Kharosthi script.		
UNIT-2		
Historical and Cultural study of the following inscriptions: Ashokan Rock Edict - II (Girnar); Ashokan Rock Edict - XII (Girnar); Ashokan Rock Edict - XIII (Shahbazgarhi); Ashokan Pillar Edict - II (Delhi-Topra: North Face).		
UNIT-3		
Historical and Cultural study of the following inscriptions: Besnagar Garuda Pillar Inscription of Heliodorus; Ayodhya Stone Inscription of Dhanadeva; Shinkot Relic Casket Inscription of the time of Menander; Hathigumpha Inscription of Kharavela.		
UNIT-4		
Inscriptions for decipherment into Devanagari/Roman script and transliteration into original script (in part or full): Ashokan Rock Edict-II (Girnar); Rummindei Pillar inscription of Asoka; Sarnath Minor Pillar Edict of Asoka; Ayodhya Stone Inscription of Dhanadeva.		
Suggested Reading: <ul style="list-style-type: none"> • Agarwal, Jagannath, 1986, <i>Researches in Indian Epigraphy and Numismatics</i>, New Delhi. • Bajpai, K.D. , 1992, <i>Aitihāsik Bhārtiya Abhilekh</i> (in Hindi), Publication Scheme, Jaipur. • Barua, B.M. , 1946, <i>Ashoka and his Inscriptions</i>, Calcutta. 		

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- Bhandarkar, D.R, 1946, *Ashoka*, Calcutta.
- Buhler, G. ,1973, *Indian Palaeography*, New Delhi.
- Dani, A.H. , 1963, *Indian Palaeography*, Oxford.
- Goyal, S.R. , 1982, *Prachin Bhartiya Abhilekh Sangraha* (in Hindi), Jaipur.
- Gupta, P.L. , 1979, *Prachin Bharat Ke Pramukh Abhilekh* (in Hindi), Varanasi.
- Hultsch, E. (ed.) , 1991, *Corpus Inscriptionum Indicarum*, Vol. I, New Delhi.
- Kausambi, D.D., 2019, *Bhartiya Itihas ka adhyaan ek Parichya*, Sage Bhasha Publication
- Ojha, G.H. ,1959, *Prachin Bhartiya Lipimala* (in Hindi), Delhi.
- Pandey, R.B. , 1962, *Historical and Literary Inscriptions*, Varanasi.
- Sircar, D.C. , 1965, *Select Inscriptions*, Calcutta.
- Sircar, D.C. , 1965, *Indian Epigraphy*, Delhi.

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M.A. History & Archaeology 3rd Semester Group-A (Indian Archaeology) Course Code : MA/H&A/3/DSC3 Course: Ancient Indian Numismatics-I	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes:

CO1	Critically analyze the coins as a source of Indian History and Numismatic studies in India.
CO2	Understand the Origin, evolution and antiquity of coin in India.
CO3	Obtain the interpretation of the numismatic iconography as an important source for historical and artistic studies.
CO4	Learn how identify coins of several periods and understand the decipherment and transliteration of Greek script.

UNIT-1

Numismatics: aim, method and scope; Numismatic terminology; Coins as a source of History; History of Numismatic studies in India.

UNIT-2

Origin and evolution of coinage in India; Antiquity of Indian coins; Techniques of manufacturing coins.

UNIT-3

Punch Marked Coins; Uninscribed and inscribed cast coins; City Coins

UNIT-4

Indo-Greek coins; Tribal Coins : Audumbara, Kuninda, Yaudheya

Coins for Decipherment:

Indo-Greek Coins; Tribal Coins : Kuninda and Yaudheya

Suggested Reading:

- Bajpai, K.D. , 1976, *Indian Numismatics Studies*, New Delhi.
- Bhandarkar, D.R. , 1984, *Carmichael Lectures, Ancient Indian Numismatics*, Patna.
- Cunningham, A. , 1971, *Coins of Ancient India*, Varanasi.
- Dasgupta, K.K. , 1974, *Tribal History of Ancient India: A Numismatic Approach*, Calcutta.

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- Gardner, P. , 1971, *The Coins of the Greek and Scythic Kings of Bactria and India in the British Museum*, New Delhi.
- Gupta, P.L. , 1996, *Coins*, New Delhi.
- Lahiri, Bela, 1964, *Indigenous States of North India*, Calcutta.
- Lahri, A.N. , 1965, *Corpus of Indo-Greek Coins*, Calcutta.
- Macdonald, G. , 1916, *Evolution of Coinage*, Cambridge.
- Mehta, V.D.M. , 1967, *Indo-Greek Coins*, Ludhiana.
- Mukharjee, B.N. and Lee, 1974, *Technology of Indian Coins*, Calcutta.
- Rao, Rajvant & Rao P.K. , 1998, *Prachin Bhartiya Mudrayen*, Delhi.
- Santosh Bajpai, 1997, *Aitihāsik Bhartiya Sikke*, Delhi.
- Sharan, M.K. , 1972, *Tribal Coins: A Study*, New Delhi.
- Singh, J.P. and Ahmed Nisar, 1977, *Seminar Courses on the Tribal Coins of Ancient India (c. 300 B.C. to 400 A.D.)*, Varanasi.
- Thakur, Upendra, 1972, *Mints and Minting in India*, Varanasi.
- Upadhyaya, V, 1986, *Prachin Bhartiya Sikke*, Allahabad.

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M.A. History & Archaeology 3rd Semester Group-B (Ancient India) Course Code : MA/H&A/3/DSC4 Course: Political History of India (ET- C.- 320A.D.)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter:</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes		
CO1	Understand the sources of Indian History and critically evaluate the knowledge of Stone Age in India.	
CO2	Critically analyses the Indus civilization, Vedic and Post-Vedic Civilization.	
CO3	Critically analysed the rise of Magadha Empire and Political condition of India on the eve of Alexander's Invasion.	
CO4	Understand critically evaluate the knowledge of human evolution in world scenario as well as India.	
UNIT-1		
Sources: Archaeological Sources; Literary Sources; Foreign Travellers in India.		
UNIT-2		
Indus Valley Civilizations: Pre-Harappan Cultures – Origin; Harappan Culture - Extent, Development & Declines.		
Vedic Age: Emergence of Tribal State and institutions; Rise of Monarchical and Republican States		
UNIT-3		
Rise of Magadha Empire: Rise of Pre-Mauryan Dynasties; Mauryan Empire- Chandergupta Maurya and Ashoka; Alexander's Invasion: Events and Effects.		
Aftermath of Mauryan Empire: North India - Sunga Dynasty; South India - Satavahana Dynasty.		
UNIT-4		
Emergence of New Powers: Indo-Greek; Saka; Kushana; Pallava.		
History as depicted in coins: Yaudheyas; Audumbras; Kunindas		

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Suggested Reading:

- Agrawala, V.S. , 1957, *India as known to Panini*, Lucknow.
- Allchin, B & R, 1989, *The Rise of civilization in India and Pakistan*, New Delhi.
- Bhandarkar, D.R. , 1969, *Ashoka* (English and Hindi edition) University of Calcutta.
- Chattopadhyaya, S. , 1955, *Sakas in India*, Visva-Bharti Prakashan, Calcutta.
- Jain, K.C. , 1979, *Prehistory and Proto-history of India*, Agam Kala Prakashan, New Delhi.
- Kausambi, D.D., 2019, *Bhartiya Itihas ka adhyaan ek Parichya*, Sage Bhasha Publication
- Majumdar, R.C. & Pusalkar, A.D. , 1970, *The Vedic Age*, Vidya Bhavan, 2nd (ed.).
- McCrindle, 1982, *The Invasion of India by Alexander the Great*, Today and tomorrow Printers and Publishers, New Delhi.
- Mishra, S.N. , 1976, *Ancient Indian Republics*, Upper India Publishing House, Lucknow.
- Mookerji, R.K. , 1966, *Chandragupta Maurya and His Times*, Motilal Banarsidass, Delhi.
- Narain, A.K, 1980, *The Indo-Greeks*, Oxford University Press, New Delhi.
- Pargitar, F.E. , 1962, *Ancient Indian Historical Tradition*, Motilal Banarsidass, Delhi.
- Puri, B.N, 1957, *India in the 'Times of Patanjali'*, Bombay.
- Puri, B.N, 1963, *India under the Kusanas*, Calcutta.
- Raychaudhury, H.C. , 1972, *Political History of Ancient India*, University of Calcutta.
- Sankalia, H.D. , 1974, *Prehistory and Proto-history of India and Pakistan*, Pune.
- Sastri, K.A.N. , 1967, *The Age of Nandas and Mauryas*, Motilal Banarsidass (2nd ed.) Delhi.
- Sastri, K.A.N. (ed.) , 1987, *Comprehensive History of India*, Vol. II, Delhi.
- Sharma, R.S. , 1959, *Political Ideas and Institutions in Ancient India*, Motilal Banarsidass Publishers, Delhi.
- Thapalyal, K.K. & Shukla, S.P. , 1976, *Sindhu Sabhyata*, Uttar Pradesh Hindi Sansthan, Lucknow.
- Thapar, Romila, 2004, *Ashoka and the Decline of the Mauryas*, Oxford University Press, Delhi.
- Wheeler, R.E.M. , 1959, *Early India & Pakistan*, New York.
- Yazdani, G. , 1995, *Deccan Ka Prachin Itihas*, Motilal Banarsidass, Delhi.

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M.A. History & Archaeology 3rd Semester Group-B (Ancient India) Course Code : MA/H&A/3/DSC5 Course: Society and Culture of India - I (ET – C.-1200 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Understand about the society and culture of India from Earliest times to C. 1200 AD i.e. from Harappan, Vedic and Buddha's time
CO2	Understand the family organization, Varna system and Ashrama system
CO3	Understand the Sanskaras and Purusartha
CO4	Understand about the Marriage, Caste system and Slavery

UNIT-1

Socio-Cultural Formation:

Enquiries into Socio-Cultural life of Harappan People; Vedic Society; Society at Buddha's Time.

UNIT-2

Social Institutions-1:

Family Organisation; Varna System; Ashrama System.

UNIT-3

Social Institutions-2:


Sanskaras; Purusharthas; Education System.

UNIT-4

Social Institutions-3:

Marriage; Caste system; Slavery.

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Suggested Reading:

- Altekar, A.S. , 1975, *Education in Ancient India*, Varanasi.
- Altekar, A.S. , 1999, *Position of Women in Hindu Civilization*, Motilal Banarsidass, Delhi
- Bary, W.I.D. (ed.) , 1958, *Sources of Indian Tradition, Vol. I*, New York.
- Bhattacharya, S.C. , 1978, *Some Aspects of Indian Society from 2nd Century B.C. to 4th Cent A.D.*, Calcutta.
- Chattopadhyay, B. , 1975, *Kushana State and Indian Society*, Punthi Pustak, Calcutta.
- Chattopadhyaya, S. , 1965, *Social Life in Ancient India*, Calcutta.
- Fick, R. , 1972, *Social Organisation of North-Eastern Indian in Buddha's time*, Trans. S.K. Mitra, Delhi.
- Ghurye, G.S. , 1969, *Caste and Race in India*, Bombay.
- Hutton, J. , 1946, *Caste in India*, Cambridge University.
- Kane, P.V. , 1930, *History of Dharmasastra*, Bhandarkar Orient Research Institute, Poona.
- Kausambi, D.D., 2019, *Bhartiya Itihas ka adhyaan ek Parichya*, Sage Bhasha Publication
- Krishna, N. , 1984, *South Indian History and society*, Oxford University Press, New Delhi.
- Majumdar, B.P. , 1960, *Socio-Economic History of Northern India (1030-1194)*, Firma K.L. Mukhopadhyay Publishers, Calcutta.
- Pandey, R.B. , 1976, *Hindu Samskara*, Delhi.
- Rapson, E.J. , 1955, *The Cambridge History of India, Vol I*, Delhi.
- Sengupta, N. , 1965, *Evolution of Hindu Marriage*, Bombay.
- Sharma, R.S. , 1980, *Sudras in Ancient India*, Motilal Banarsidass, Varanasi, Delhi.
- Sharma, R.S. , 1983, *Material Culture and Social formation in Ancient India*, Macmillan, Delhi.
- Shastri, K.A.N. , 1987, *Comprehensive History of India, Vol. II(ed.)*, reprint, Delhi.
- Singh, Upinder ,2020, *Pracheen Bharat ke Avddharna*, Sage Bhasha Publication
- Thapar, Romila, 2004, *Ancient Indian Social History-Some interpretations from Lineage to Caste*, Pub. Orient Longman, New Delhi.
- Thapar, Romila, 2004, *Asoka and Decline of the Mauryas*, Oxford University Press, Delhi.
- Wagle, N.G. , 1966, *Society at the time of Buddha*, Bombay.
- Yadav, B.N.S. , 1973, *Society and Culture of Northern India in the 12th Century*, Central Book Depot, Allahabad.

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A/3/DSC6 Course: Economic History of India- I (ET – C.-1200 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Understand about the Economic History of India (from Earliest times to C. 1200 AD) i.e. from Stone-age, Neolithic Culture and Harappan Culture.
CO2	Understand the Vedic and Later Vedic Economy.
CO3	Understand the Emergence and Growth of Industries i.e. Metal, Pot Making, Textile, Guilds in Buddhist Period and Trade and Commerce in Buddhist Period.
CO4	Understand about the Mauryan and Post-Mauryan Economy.

UNIT-1

Survey of Sources and Early Cultures:

Stone Age-Food Gathering Economy; Advent of food Production Neolithic Culture; Urban Experiment-Harappan Culture.

UNIT-2

Vedic Economy:

Early Vedic; Later Vedic.

UNIT-3

Emergence and Growth of Industries:

Metal; Pot Making; Textile; Guilds in Buddhist Period; Trade and Commerce in Buddhist period

UNIT-4

Mauryan and Post Mauryan Economy:

Nature and Features; Land system and Land Revenue System; Ownership of Land; Irrigation

Trade and Commerce:

Internal Trade; Foreign Trade : Trade Relations with Roman and South - Asian World; Mechanism of Trade : Trade Route, Forms of Exchange, Currency and Coinage.

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Suggested Reading:

- Adhey, G.L, 1966, *Early Indian Economics*, Asia Publishing House, Delhi.
- Ghoshal, U. N. , 1929, *Contribution to the History of Hindu Revenue system*, Calcutta.
- Ghoshal, U. N. , 1973, *Agrarian System in Ancient India*, Calcutta University, (2nd edn.) Calcutta.
- Gopal, Lallanji, 1980, *Aspects of the History of Agriculture in Ancient India*, Bharti Prakashan, Varanasi.
- Gopal, Lallanji, 1989, *Economic Life in Northern India*, Motilal Banarsidass, (2 nd edn.) Delhi.
- Gregory Possehl (ed.) , 2002, *Ancient Cities of the Indus the Harappan Civilization : A Contemporary Perspective*, Vistaar Publication, New Delhi.
- Jha, D.N. , 1967, *Revenue system in Post Mauryan and Gupta times*, Punthi Pustak Publisher, Calcutta.
- Jha, D.N. , 1980, *Studies in Early Indian Economic History*, Delhi.
- Kausambi, D.D. 2019, *Bhartiya Itihas ka adhyaan ek Parichya*, Sage Bhasha Publication
- Kosambi, D.D. , 1956, *An Introduction to the Study of Indian History*, Popular Prakashan, Bombay.
- Majumdar, B.P. , 1960, *Socio-Economic History of Northern India (1030-1194)*, Calcutta.
- Sharma, R.S, 1980, *Indian Feudalism*, Macmillan, (2nd edn.) Delhi.
- Sharma, R.S. , 1983, *Perspectives in Social & Economic History of Early India*, Munshiram Manoharlal Publishers, New Delhi.
- Sharma, R.S. , 1983, *Material Culture and Social formations in Ancient India*, Macmillan, Delhi.
- Sircar, D.C. , 1960, *Land System and Feudalism in Ancient India (1030-1194)*, Calcutta.
- Thakur, V.K. , 1981, *Urbanisation-Ancient India*, Abhinav Publication, New Delhi.
- Thakur, V.K. , 1989, *Historiography of Indian Feudalism*, Janaki Parkashan, Patna.
- Yazdani, G, 1982, *Early History of Deccan*, Oriental Book , New Delhi.

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M.A. History & Archaeology 3rd Semester Group-C (Medieval India) Course Code : MA/H&A/3/DSC7 Course: Political History of India (C. 1200 to 1526 AD)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Get basic knowledge about the Islamic theory of Sovereignty, the Sultanate and the Caliphate and Theory of Kingship under the Sultans of Delhi.
CO2	Understand the Barni's theory of Kingship, Nature of Delhi Sultanate and Nature of Afghan State.
CO3	Understand the conquest and expansion of Mamlauks and their consolidation and construction of power.
CO4	Understand about Mangol Problem and Disintegration of the Sultanate.

UNIT-1

Introduction to the course and contrasting Pre-Histories of the Delhi Sultanate (Sind Invasion of Arab to Establishment of Delhi Sultanate 1206 A.D.), Indian Feudal Debate, Sources and Historiography of Sultanate Period, Theory of Kingship & Legitimacy under the Sultanate.

UNIT-2

Islam and its Ghurid-Shansabanid contexts in the 12th century, Mamluk's - Conquest and Expansion, Courts of a Different Order – the Sufis tariqas, Relation between State and Sufi .

UNIT-3

Frontier Feudatories and the Khalaji and Tughluq regimes:

Khalji Revolution, Consolidation and Construction of Khalji's power, The Tughlaqs

Saiyyad and Afghans:

Sayyid Dynasty, Lodhi Dynasty

UNIT-4

Distinction of the Delhi Sultanate:

Mangol Problems, Downfall of Delhi Sultanate, Rise of Regional States: Jaunpur, Malwa, Gujarat, Vijay Nagar, Behmani.

Suggested Reading :

- Chandra, Satish, 1998, *Medieval India - Vol . I (From Sultanate to the Mughal)* New Delhi.
- Chattopadhyaya, B.D. , (1997), *Political Processes and the Structure of Polity in Early Medieval India*, in Hermann Kulke, ed., *The State in India, 1000-1700*, Delhi: Oxford University Press, pp. 195-232.

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- Digby, Simon (1986), *The Sufi Shaikh as a source of authority in medieval India Purusartha (Islam and Society in South Asia)* vol. 9, pp. 57-77 (reprinted now in Richard Eaton, ed., *India's Islamic Traditions*, Delhi: Oxford University Press), pp. 234-262
- Ernst, Carl. (1992). *The Interpretation of the Sufi Biographical Tradition in India*, in *The Eternal Garden*, Albany: State University of New York Press, pp. 86-93
- Ernst, Carl. (1992). *The Textual Formation of oral Teachings in the Early Chishti Order*, in *The Eternal Garden*, Albany: State University of New York Press, pp. 62-84
- Habib Irfan (ed.) , 1981-2003, *Madhyakaleen Bharat, Vols. I to 8*, New Delhi.
- Habib Irfan (ed.),1992, *Medieval India (Vol.1 Researches in the History of India 1200-1750*, Delhi.
- Habib Mohd. & Nizami, 1982, *Comprehensive History of India, Vol. V*, New Delhi.
- Habib, Mohammad. (1950). *Chishti Mystic Records of the Sultanate Period*, *Medieval India Quarterly* vol. 1, pp. 1-42.
- Habib, Mohammad. (1974). *Introduction to Elliot and Dowson's History of India vol. II, in Politics and Society during the Early medieval Period*, ed. Khaliq A. Nizami, Delhi: People's Publishing House, vol. 1, pp. 33-110
- Hardy, Peter. (1966). *Historians of Medieval India: Studies in Indo-Muslim Historical Writing*, London: Luzac & Co., pp. 3-19, 122-131
- Hardy, Peter. (1994). *Approaches to Pre-Modern Indo-Muslim Historical Writing: Some Reconsiderations in 1990-9*, in Peter Robb, ed., *Society and Ideology: Essays in South Asian History presented to K.A. Ballhatchet*, Delhi: Oxford University Press, pp. 49-71.
- Jackson, Peter. (1975). *The Mongols and the Delhi Sultanate*, *Central Asiatic Journal* vol. 19, pp. 118-156
- Jackson, Peter. (1986), *The problems of a vast military encampment in Delhi through the Ages*, ed. R.E. Frykenberg, Delhi: Oxford University Press, pp. 18-33.
- Kumar, Sunil. (2014), *An Inconvenient Heritage: the Central Asian background of the Delhi Sultans*, in Upinder Singh and Parul P. Dhar, *Asian Encounters*, Delhi: Oxford University Press, pp. 86-106
- Lawrence, Bruce B. (1986), *The earliest Chishtiya and Shaikh Nizam al-Din Awliya* in *Delhi through the Ages*, ed. R.E. Frykenberg, Delhi: Oxford University Press, pp. 104-128.
- Sharma, R.S. (1997), *How Feudal was Indian Feudalism*, in Hermann Kulke, ed., *The State in India, 1000-1700*, Delhi: Oxford University Press, pp. 48-85.
- Shokoohy, Mehrdad and Natalie H. Shokoohy. (1994), *Tughluqabad, the Earliest Surviving Town of the Delhi Sultanate*, *Bulletin of the School of Oriental and African Societies* vol. 57, pp. 516-550;
- Verma, H.C. , 1983, *Madhyakaleen Bharat Vol. 1206 -1540 A.D.*, (in Hindi) Delhi.

Ignou Booklets

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M.A. History & Archaeology 3rd Semester Group-C (Medieval India) Course Code : MA/H&A/3/DSC8 Course: Society and Culture of India (C. 1200 -1757 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand about the main features of social structure and religious-cultural traditions of Turkish invasion.
CO2	Understand the establishment of Delhi Sultanate and Mughal Empire and Challenges to Indian Society and culture.
CO3	Got the knowledge about the Social and Religious Classes- Ruling Class, Service Class, Ulema, Saiyyads.
CO4	Understand the Crime and Punishments, Harem and its administration and Revolts in Medieval India.

UNIT-1

Society on the Eve of Turkish Invasions: Main features of Social Structure (in Pre Medieval), Religio-Cultural Traditions (in Pre Medieval); Establishment of Delhi Sultanate and Challenges to Indian Society

UNIT-2

Social Structure (Sultanate and Mughal Period): Ruling class, Religious Classes- Ulema, Saiyyads, Service class, Artisans, Peasantry

UNIT-3

Cultural Development (Sultanate and Mughal Period):

Development of Languages: Sanskrit, Persian, Hindi, Urdu and Its Regional Forms, **Society and Culture of Medieval India from the Writings of:** Ameer Khusarau, Kabir Das and Tulsi Das, Mirza Galib and Mir Taqi Meer

Imperial City Sahjahanabad: Planning and Structure of City, Society, Culture and Communal Harmony in 17th and 18th Century, Development of Indian Islam

UNIT-4

Crime and Punishments in Medieval India, Rituals and Festivals in Medieval India, The Mughal Harem, **Revolts In Mughal India:** Peasents Revolts, Religious Forms of Resistance: Satnami and Sikh Revolts, **The Revolts of the Nobility and Princes** (c. 1560-1740 A.D.)

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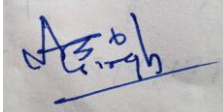
Suggested Reading:

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- Arshi, Nida, (2012). *Expansion of Colonial Authority in the City of Delhi, 1803 – 1856*:
- Chandra, Satish, 1998, *Medieval India - Vol . I (From Sultanate to the Mughal)* New Delhi.
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- Habib Irfan (ed.), 1992, *Medieval India (Vol.1 Researches in the History of India 1200-1750)*, Delhi.
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- Sharma, R.S. (1997). *How Feudal was Indian Feudalism* in Hermann Kulke, ed., *The State in India, 1000-1700*, Delhi: Oxford University Press, pp. 48-85.
- Siddiqui, I.H. (ed.) , 2003, *Medieval India: Essays in Intellectual Thought & Culture Vol. I*, Delhi.
- Tara Chand, 1976, *Influence of Islam on Indian Culture*, Allahabad.
- Verma, H.C. , 1983, *Madhyakaleen Bharat Vol. 1206 -1540 A.D.* (in Hindi) Delhi.

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M.A. History & Archaeology 3rd Semester Group-C (Medieval India) Course Code : MA/H&A/3/DSC9 Course: Economy of India-I (C. 1200-1526 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand about Pre-Sultanate economy and Land Revenue system during Early Turks, Khaljis, Tughlaqs and Lodhis.
CO2	Understand the Irrigation and Changes in Crop-Pattern.
CO3	Got the knowledge about the Currency, Industries and Trade and Commerce during that period
CO4	Critically analyze the Economic Development in Sultanate period through the Contemporary sources and later on Historiography.

UNIT-1

Pre-Sultanate Economy, Land revenue System and Magnitude: Mamluks, Khaljis, Tughlaqs and Lodhis, Irrigation and Changes in Crop-pattern, Iqta System

UNIT-2

Market Control Policy and Prices of Commodities (Alauddin Khalji), Fiscal measures of Muhammad Bin Tuglaq, Village Community and property rights, Village Organization: Khuts, Muqaddams and Chaudharies

UNIT-3

Technological changes and Economy, Merchants Class, The Monetary system (1200-1526 A.D.), Karkhanas under the Sultanate

UNIT-4

Industries, Trade and Commerce : Industries in Sultanate Period, Inland and External Trade, Growth of Towns, Debate on Urbanization in Sultanate Period

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Suggested Reading:

- Ashraf, K.M. , 1998, *Life and Condition of the People of Hindustan*, New Delhi.
- Chandra, Satish, 2004, *Medieval India (from Sultanate to Mughals) Vol. I & II* (English & Hindi), Har Anand, New Delhi.
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- Chaudhary, Tapan Ray, 1982, *Cambridge Economic: History of India (c. 1200-1750 A.D.) Vol. I*, OUP.
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- Frekenberg (Ed.) , 1969, *Land Control and Social Structures in Indian History*, London.
- Habib, Irfan, 1951 – 2003, *Madhyakaleen Bharat Vol. I - VIII (in Hindi also)* Raj Kamal Prakashan, New Delhi.
- Habib, Irfan, 1995, *Essays in India History: Towards a Marxist Approach*, New Delhi.
- Habib, Irfan, 2002, *Bhartiya Itihas Mein Madhyakal*, New Delhi.
- Kosambi, D.D. , 1972, *An Introduction to the Study of Indian History IX & X*, New Delhi.
- Methew, K.S. , 1983, *The Portuguese Trade with India in the Sixteenth Century*, New Delhi.
- Moreland, W.H. , 1968, *Agrarian System of Moslem India*, Delhi.
- Mukhia, Harbans, 1993, *Perspectives on Medieval History*, Vikas Publishing House, Delhi.
- Panikar K.N. Ed. , 2007, *The Making of History-Essays Presented to Irfan Habib*, Tulika, New Delhi.
- Ray, Anirudha & Bagchi, S.K. (Ed.) , 1986, *Technology in Ancient and Medieval India*, Delhi.

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M.A. History & Archaeology 3rd Semester Group-D (Modern India) Course Code : MA/H&A/3/DSC10 Course: Political History of India (C. 1757 to 1947 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand about the sources of Modern Indian History i.e. Archival Records, Private Courses, NewsCourses, Periodicals and Oral Traditions.
CO2	Understand the pre-colonial Indian Polity.
CO3	Understand the emergence of British Power and Indian resistances.
CO4	Understand the diplomatic means of British Expansion and Paramountecy and aftermaths.

UNIT-1

Pre-Colonial Indian Polity:

Major states in 18th century, Emergence of English East India Company in Bengal, Political Settlement of 1765, Anglo-Mysore Relations (1767-1799), Anglo-Marathas Relations (1795-1818)

UNIT-2

The British Paramountcy:

Subsidiary Alliance System, Conquest of Sind, Annexation of Punjab, Nepal and Burma, Doctrine of Lapse

UNIT-3

Conflict and Cooperation:

Uprising of 1857, Crown Takes Over, Consolidation of Colonial State-Administration, Relation with Indian states

UNIT-4

Foreign Policy:

Afghan, North West Frontier(N.W.F.) Province Policy, Tibet

Independent India;

Problems of Princely States, Vision of India

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A.S. Singh

Suggested Reading:

- Banerjee, A.C. , 1984, *A New History of Modern India 1757-1947*, Calcutta.
- Bhaskar, Arvind, 2021, *Bharat Ka Swatantrta Sangram (Part-1&2)*, Kalam Publication
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- Sardesai, G.S. , 1946, *New History of the Marathas - Vols II. III*, Bombay.
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- Stokes, Eric, 1959, *English Utilitarian and India*, Oxford.
- Sutherland, Lucy, 1952, *The East India Company in the 18th Century Politics*, Oxford.
- Tara Chand, 1991, *History of Freedom Movement, Vol. I & II*, Delhi.

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M.A. History & Archaeology 3rd Semester Group-D (Modern India) Course Code : MA/H&A/3/DSC11 Course: Society and Culture of India-I (C. 1757-1947 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand about the Pre-British Indian Society, British and Indian Society i.e. Christian Missionaries, British Social Policy and Approaches - Evangelicals and Orientalist.
CO2	Critically analyze the growth of new education system and role of press in socio-political consciousness.
CO3	Critically analyze the Indian literature and role in Indian cultural renaissance.
CO4	Understand about social reforms of 19th century in India and women's emancipation.

UNIT-1

Pre-British Indian Society:

General Features, Rural Society, Urban Society

UNIT-2

British and Indian Society:

Christian Missionaries, British Social Policy, Approaches-Evangelicalist and Orientalist

Growth of New Education:

Role of Lord Macculey, Wood's Dispatch and Aftermath, Its Role in Socio-Political Consciousness

UNIT-3

Press:

Rise and Growth of Press, Its Role in Socio-Political Consciousness

Socio-Religious Movement:

Brahmo Samaj, Arya Samaj, Ramakrishna Mission

UNIT-4

Social Reform:

Sati, Infanticide, Widow Remarriage Movement, Age of Consent Bill Agitation

Women's Emancipation

Status, Property Rights, Socio-Political Participation

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Suggested Reading:

- Amit Sen, 1988, *Notes on the Bengal Renaissance*, Calcutta.
- Banga, Indu and Jaidev (eds.) , 1996, *Cultural Reorientation of Modern India*, Delhi.
- Bayly, C.A. , 1987, *Indian Society and the Making of the English*, London.
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- Desai, A.R. , 1989, *Social Background of Indian Nationalism*, Delhi.
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- Kumar, Ravinder , 1968, *Essays in Social History of Modern India*, Delhi.
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- Sangari, Kumkum & Sudesh Vaid (eds.) , 1988, *Recasting Women: Essay in Colonial History*, Delhi.
- Sharma, R.S. (ed.) , 1984, *Indian Society: Historical Probing in Memory of D.D. Kosambi*, Delhi.
- Stokes, E. , 1959, *English Utilitarians and India*, London
- Sumit Sarkar , 1983, *Modern India*, Delhi.

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M.A. History & Archaeology 3rd Semester Group-D (Modern India) Course Code : MA/H&A/3/DSC12 Course: Economic History of India-I (C. 1757-1947A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand about the Pre-British Indian Economy, British and Indian Economy British Economical Policy and Approaches towards India and their homeland.
CO2	Critically analyze the growth of new Economical system and role of Cash nexus.
CO3	Critically analyze the Indian Pre Colonial economy and its nature.
CO4	Understand about the Economic reforms of 19th century in India.

UNIT-1

Pre-colonial Indian Economy:

Rural economy: agriculture and artisans, Urban economy: artisans and manufacturing, Rural and Urban trade

Disintegration of the Pre-Colonial Economy:

Debate over de-industrialization, Causes for the disintegration of the rural economy

UNIT-2

Debate about Colonialism and its impact on Indian Economy:

Estimates prior to the first Census of 1872, Patterns of population growth since 1872, with reference to Fertility rates, Mortality rates and Women-men ratio, Debate over de-urbanization and trends of migration and workforce

National and Per-capita income:

Estimates and comparison, Contribution of Agriculture, Industry and Tertiary services

UNIT-3

Colonial land revenue settlements:

Permanent Settlement, Raiyatwari, Mahalwari, Commercialization of agriculture with reference to crop, land labour and credit markets, Rural Indebtedness and institutions to meet rural credit needs in colonial India, Peasant Revolt

UNIT-4

Irrigation system and changes there in:

Irrigation system and changes in colonial period, Famines and the Colonial Government, Evolution of the colonial policy regarding famines

Anil Kumar P.N. Singh

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Suggested Reading:

- Bhaskar, Arvind, 2021, *Bharat Ka Swatantrta Sangram (Part-1&2)*, Kalam Publication
- Bhatia, B.M. , 1967, *Famines in India: A study in Some Aspects of the Economic History of India*, Bombay.
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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A/3/SEC13 Course: Universal Humanistic Values and Life Skills	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understanding the concept and the role of paradigm and principles in strengthening universal values and life skills.
CO2	Understanding the concept and the role of personal vision and leadership
CO3	Understanding the concept and the role of principles of personal management, interdependence and interpersonal leadership.
CO4	Understanding the concept and the role of principles of empathic communication, creative cooperation and balanced self-renewal.

UNIT-1

Paradigms and Principles: Role of paradigms and principles in strengthening universal humanistic values and life skills; Inside-out approach; Personality ethics and character ethics; Primary and secondary greatness; The Principle centered paradigm; The principles of growth and change; Habits as internalized principles and pattern of behavior; The journey from dependence to independence and finally to interdependence; Role of P-PC (Production/Productive Capacity) balance in life.

UNIT-2

Principles of Personal Vision: Definition and role of proactivity in life; The power of principle centered choice and initiative, Focusing on circle of influence and its expansion, Distinction between 'To Be' and 'To Have', Making and keeping commitments. Principles of Personal Leadership: The principle of beginning with the end in mind; Leadership and management- The two creations, Becoming your own first creator, Making a principle centered personal mission statement, Creating ability to use whole brain and two ways to tap the right brain, Identifying the roles and goals towards the mission, Mission sentiments towards the organization and family.

UNIT-3

Principles of Personal Management and Interdependence: Power of independent will, Role and importance of time management, Exercise to say "NO", Identifying the roles in life, Delegation and its effectively. Emotional bank and its major deposits, Importance of laws for life, Expectations and their clarification, Personal integrity, the powers of interdependence Principles of Interpersonal Leadership: Cooperation and its role in working, Human interaction and various paradigms related to it, Selecting the best option, The five dimensions of Win/Win, Training and agreements of Win/Win, Role of system and process for Win/Win.

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UNIT-4

Principles of Empathic Communication: Character communication and empathic listening, Screening of the prescribe, Four autobiographical responses, Understanding and perception, Seek to understand, Principles of Creative Cooperation: Synergistic communication; Synergy in classroom, business and communication, Fishing for the third alternative, valuing the differences. Principles of balanced self-renewal: Four dimensions of renewal, balance and synergy in renewal, The upward spiral.

Suggested Reading:

- Covey S. R, (2004), *The Seven Habits of Highly Effective People*, Simon and Schuster Publishers, New Delhi
- Frankl, V. (1992), *Man's Search For Meaning*, Washington Square Publishers
- Khera, S. (2005), *You Can Win*, Macmillan India Ltd. (In English and Hindi)
- Neill, M. (2019), *The Inside Out Revolution: The Only Thing You Need to Know to Change Your Life Forever*, Hay House Publishers, UK
- Tomlinson, B.R., 1993, *The Economy of Modern India 1860-1970*, Cambridge.

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A /O9/OEC5 Course: The Sultanate and Mughal's Delhi (1206 A.D. – 1857 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Differentiate between different types of heritage sites – those that are in ruins or saved as antiquities, others that continue as sites of residence and habitation and complicate modes of transcribing them as heritage sites.
CO2	They will comprehend the difference between urbanisation and urbanity.
CO3	They will become familiar with the lives of litterateurs and poets of the city, the merchants and the menials and the significance attached to civility and decorum in a city heralded as the capital of powerful political formations.
CO4	Learn how to notice change in the life of the city and the different and complex ways in which elites, literati and the common people responded to these transitions and early modernity.

UNIT-1

Historiographical Introduction of Delhi, The Seven Cities of Delhi and their History Studying Urbanisation in the Sultanate Context.

UNIT-2

Monumental Matters/Description of the Monuments: Mehrauli Archeological Park, Qutub Complex, Hauz Khas Complex, **Worship and communitarian scaffolding:** the Qubbat al-Islam masjid, the dargah of Bakhtiyar Kaki and Nizam al-Din Auliya, **Rise a New City:** Tuglakabad.

UNIT-3

Fourteenth-fifteenth century transitions: the present and past of Firuz Shah's Firuzabad, 15th and 16th century, Humaun Tomb, **The city and Shah Jahani political order:** the Red Fort, Jama Masjid and the Chandni Chowk, Mughals and Urban Planning of Sahjhanabad City.

UNIT-4

Delhi : As a centre of Art and Culture, Development of Music and Urdu in Sahjhanabad, 17th and 18th century transitions - political decentralisation and new elites, Modern Delhi and Its structures.

Anil Kumar

P.N. Singh

J.S. Singh

A.S. Singh

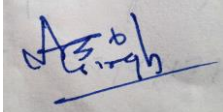
Suggested Reading:

- Anooshahr, Ali. (2014). *On the Imperial Discourse of the Delhi Sultanate and Early Mughal India*, Journal of Persianate Studies vol. 7. pp. 157-176
- Frykenberg, (Ed.), *Delhi Through the Ages*, Delhi: Oxford University Press, pp. 18-33
- *Futuh-at-i Firuz Shahi*. (1996). translated by Azra Alavi, Delhi: Idarah-i Adabiyar-i Delli, pp. 19-34.. Page, J.A. (1999 reprint).
- *A memoir on Kotla Firuz Shah Delhi*: Archaeological Survey of India
- Inden, Ronald. (2006), *The Temple and the Hindu Chain of Being*, in *Text and Practice: Essays on South Asian History*, Delhi: Oxford University Press, pp. 192-212;
- Jackson, Peter. (1986), *Delhi, the Problem of a vast Military Encampment*, in R.E.
- Kumar, Sunil. (2000). *Assertions of Authority: a study of the discursive statements of two Sultans of Delhi*:in Muzaffar Alam, Francoise 'Nalini' Delvoye and Marc Gaborieu (Eds.), *The Making of Indo-Persian Culture: Indian and French Studies*, Delhi: Manohar, pp. 37-65.
- Kumar, Sunil. (2011) *Courts, Capitals and Kingship: Delhi and its Sultans in the Thirteenth and Fourteenth Centuries CE*, in Albrecht Fuess and Jan Peter Hartung (Eds.), *Court Cultures in the Muslim World: Seventh to Nineteenth Centuries*, London: Routledge, pp. 123-148.
- Kumar, Sunil. (2017). *Transitions in the Relationship between Political Elites and Sufis: the 13th and 14th century Delhi Sultanate*, N. Karashima (Ed.), *State Formation and Social Integration in Pre-modern South and Southeast Asia: A Comparative Study of Asian Society*, Tokyo: Toyo Bunko, pp. 203-238;
- Lefebvre, Henri. (1996). *Right to the City*” in *Writings on Cities*, Malden: Blackwell Press, pp. 147-159.
- Taneja, Anand. (2012). *Saintly Visions: Other histories and history's others in the medieval ruins of Delhi*, Indian Economic and Social History Review, vol. 49, pp. 557–90 on <https://sites.google.com/site/sultanatemughaldelhi/fieldwork/home>.
- Weber, Max. (1966). *Associational and Status Peculiarities of the Occidental City*, in *The City*,
- Welch, Anthony. (1983). *Master Builders of the Delhi Sultanate*, Muqarnas, vol. 1, pp. 123-66;
- Welch, Anthony. (1993). *Architectural Patronage and the Past: the Tughluq Sultans of India*, Muqarnas, vol. 10, pp. 311-322;
- Welch, Anthony. (1996). *A Medieval Center of Learning in India: the Hauz Khas Madrasa in Delhi*, Muqarnas, vol. 13, pp. 165-90;
- Welch, Anthony. (1997). *The Shrine of the Holy Footprint in Delhi*, Muqarnas, vol. 14, pp. 116-178;
- Wendell, Charles. (1971). *Baghdad Imago Mundi and other foundation lore* International Journal of Middle Eastern Studies vol. 2 (1971);
- Wescoat, James. (2016). *Barapula Nallah and Its Tributaries: Watershed Architecture in Sultanate and Mughal Delhi*, in Jutta Jain-Neubauer (Ed.). *Water Design: Environment and Histories: Marg*, vol. 68, pp. 84-95.

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A /O9/OEC6 Course: Nationalism in India	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Critically examine inter-relations between various forms of nationalism in South Asia in general and the varieties of nationalism in Indian context in particular.
CO2	Analyze nationalism in different perspectives
CO3	Understand the approaches to Indian Nationalism and emergence of organized nationalism.
CO4	Understand the working of Congress and Non-Congress Provincial Ministries and Communal Politics and Partition.

UNIT-1

Approaches to Indian Nationalism, Conceptual Debates, Emergence of Organized Nationalism.

UNIT-2

Trends till 1919 , Gandhian Movements - Nature, Programme, Social Composition, Limitations and Challenges, Major movements of Gandhi

UNIT-3

Revolutionary and Left Movements, Subhash Bose and INA and State Peoples' Movements.

UNIT-4

Working of Congress and Non-Congress Provincial Ministries, Communal Politics, Partition of India

Suggested Reading:

- Chandra Bipan and others , 1987, *Struggle for Independence of India*, New Delhi
- Desai, A.R. , 1949, *Social Background of Indian Nationalism*, Bombay
- Dhankhar, Jaiveer S. , 2000, *Prelude to Pakistan*, Delhi
- Dhankhar, Jaiveer S. , 2001, *A Short History of Hindustan Socialist Republic an Association*, Delhi
- Majumdar, R.C. , 1962-63, *History of Freedom Movement Vol. I, II, III*, Calcutta
- Malhotra, S.R. , 1971, *The Emergence of Indian National Congress*, Delhi
- Sarkar, S. , 1983, *Modern India 1885-1947*, New Delhi
- Tara Chand, 1961, *History of the Freedom Movement Vol. I, II, III, IV (4 Vols.)*, Delhi,

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M.A. History & Archaeology 4th Semester Course Code : MA/H&A /4/CC14 Course: Historiography : Concepts, Methods and Tools - 2	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Developed their ability to assess critically historical analysis and argument, past and present.
CO2	Gained an awareness of recent and contemporary debates in the theory, practice of historical writing and gained debate in history thinker.
CO3	Gained insight into how historical arguments have been and are made become aware of historiographical traditions outside the West.
CO4	Had the opportunity to think reflexively about the nature of the historical enterprise within society

UNIT-1

Modern Approaches in History:

Positivist, Marxist, Gender and History writings in History, Environment and History writings in History, Annals.

UNIT-2

Modern Indian Approaches in History:

Colonial History Writing, Nationalist History Writing, Communalist History Writing, Marxist History Writing, Cambridge School and History Writing, Subaltern School and History Writing.

UNIT-3

Major Debates in History (World & India) :

Periodization in History, Rise of Feudalism, Rise of Capitalism Origin of Imperialism, Origin of Nationalism

UNIT-4

Making a Research Proposal:

Choice of Subject, Survey of literature, Formulation of hypothesis, Identification of sources, Description of research methodology, Elaboration of research proposal.

Suggested Reading:

- Anthias, Floya and Nira Yuval-Davis, 1975, *Woman, Nation, State*, Basingstoke, Macmillan and New York St. Martin's Press.
- Bentley, Michael, 1997, *Companion to Historiography*, London Routledge.
- Bottomore, Tom, 1972, *Theories of Modern Capitalism*, New Delhi.

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- Boyd, Kelly (ed.) , 1985, *Encyclopaedia of Historians and Historical Writings*, Vols. I and II, London/Chicago, Fitzroy Dearborn Publishers.
- Burke, Peter , 2001, *Perspectives of Historical Writing*, 2nd Edn. Cambridge, Polity Press.
- Chaube, Jharkhande, 1999, *Itihaas-Darshan*, Varanasi, Vishwavidyalaya Prakashan.
- Guha, Ramchandra , 1998, *Environmentalism: A Global History*, New Delhi, Oxford University Press.
- Hilton, Rodney (ed.) , 2008, *Samantwaad Se Punjiwaad Mein Sankraman*, Delhi Granth Shilpi.
- Hobsbawm, Eric. J, 2008, *Itihaskar Ki Chinta*, Delhi Granth Shilpi.
- Hughes, J. Donald , 2006, *What is Environmental History?* Cambridge/Malden Polity Press.
- Landes, Joan B. , 1988, *Women and the Public sphere in the Age of the French Revolution*, Ithaca, NY, Cornell University Press.
- Marwick, Arthur , 1970, *The Nature of History*, Macmillan, London.
- Mukhia, Harbans , 2000, *The Feudalism Debate*, New Delhi, Manohar.
- Owen, Roger and Bob Sutcliffe (eds.) 1972, *Studies in the theory of Imperialism*, London, Longman,.
- Porter, Andrew , 1994, *European Imperialism, 1860-1914*, Basingstoke & London, The Macmillan Press.
- Sarkar, Sumit , 1997, *Writing Social History*, Oxford University Press, Delhi.
- Sreedharan, E. , 2000, *A Textbook of Historiography 500 BC to AD 2000*, Orient Longman, Delhi.
- Verma, Lal Bahadur, 1984, *Itihaas Ke Bare Mein*, New Delhi, Prakashan Sansthan.

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M.A. History & Archaeology 4th Semester Course Code : MA/H&A /4/CC15 Course: History of Ideas	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand dynamism in definition of religions through time in history. How these religions were developed in different societies in different periods of time. And how it affects the everyday lives of variety of people in ancient times.
CO2	Understand how to look for variety of sources to understand various religions of ancient times which includes not just religious texts but also monuments, traditions, rituals etc.
CO3	Understand how different religions affected each other and how the beliefs shifted in different directions. And how they have sustained till today through various institutions and rituals.
CO4	Understand contribution of various tribes, classes and gender in the development, diversity and dynamism of various religious philosophies, beliefs and practices.

UNIT-1

Social, Religious and Philosophical Ideas In Ancient India:

Formation of early ideas: Varna, Jati, Family, Women.

Formation of religious ideas: Vedas, Upanishads and Vedanta, Six Schools of Indian Philosophy, Jainism and Buddhism.

UNIT-2

Political Ideas in Ancient India:

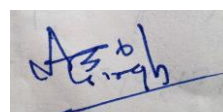
Political Institutions of Vedic Period: Central Assemblies, Sabha, Samiti, Paura Janpad, Vidhatha. Council of Ministers [Mantriparishad], Constitutions and Functions. Qualifications of Ministers, Inter State Relations-Mandala Theory, Espionage, Government: Mauryan Administration; Gupta Administration; Administration of Harsha, Administrative system under the Cholas, Judiciary, Court-Procedure and Punishment.

UNIT-3

Medieval India and History of Ideas:

A Critical study of sources, **Historian's conception & ideas:** Tahkik-ma-lil Hind (Al-Beruni), Tabkat-i-Nasiri (Minhaj), Barani's conception of History, Tarikh-i-Firozshahi, Fatwa-iJahandari, Mystic Ideology: The Mystic path, service to humanity, pacifism and non-violence, Chishti attitude towards the State, Suhrawardi attitude towards State, Historians and Histories of Mughal Empire in Akbar's reign, Views of members of Din-Illahi, Abul Fazal's ideas of history:

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Akbarnama, Tabkat-i-Akbari, Khwaja Nizamuddin's treatment of history, Muntakhab-ut-Tawarikh Badauni's treatment of history, Babarnama, Jahangirnama, Padshahnama. Unit V Travels: Manucci, Bernier, Ibn Batuta.

UNIT-4

Modern India and History of Ideas:

Colonialism & emergence of new political ideas: Utilitarianism, Liberalism, Nationalism, Democracy, Socialism, Communalism, Secularism, Pacifism-John Ruskin & Leo Tolstoy: Impact on Indian Thought, Ideas of dissent & protest: Constitutional Opposition: Dada Bhai Naoroji; Gokhale; Swadeshi & Boycott; Passive Resistance; Satyagraha & Civil disobedience. Total Revolution, Gandhian social philosophy, Its source, ideas on religion, civilization, social reform & education, emphasis on villages, women's rights, harijan uplift, struggle against casteism, Sarvodaya & Bhoodan; Integral Humanism & Radical Humanism.

Suggested Reading :

- Arthur Lovejoy, 1936, *The Great Chain of Being: A Study of the History of an Idea*, London.
- Arthur Lovejoy, 1960, *Essays in the History of Ideas*, Capricorn Books
- Horowitz, Maryanne Cline, 2004, *New Dictionary of the History of Ideas*, New York
- Isaiah Berlin, 2013, *Against the Current: Essays in the History of Ideas*, Princeton University Press.
- Moran, Seán Farrell, 1999, *Intellectual History/History of Ideas*, Routledge
- Peter E. Gordon, 2009, *What is intellectual history? A frankly partisan introduction to a frequently misunderstood field*, Harvard University, Cambridge, Massachusetts.
- Quentin Skinner, 2002, *Meaning and Understanding in the History of Ideas*, Cambridge University Press.

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M.A. History & Archaeology 4th Semester Course Code : MA/H&A/4/CC16 Course: Cardinal Principle of Academic Integrity and Research Ethics	Total Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20
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Note: For The Paper Setter :

External:

4. Five Questions will be set in all and students will be required to attempt 3 questions.
5. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus.
6. In addition, four more questions will be set unit-wise comprising of two questions from each unit. The candidates are required to attempt two more questions selecting at least one from each unit. (10 marks each)

Internal:

2. Internal Evaluation includes mid-term examination (10 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Know the Academic Integrity, Plagiarism (prevention and detection) and UGC regulations.
CO2	Understand the Research and Publications ethics and best practices.
CO3	Understand the basic Ethics in the field of Research.
CO4	Know how to the research Ethics and principles shapes a good and healthy academic integrity.

UNIT-1

Academic Integrity: Introduction, Academic Integrity Values-Honesty and Trust, Fairness and Respect, Responsibility and Courage, Violations of Academic Integrity-types and consequences, Plagiarism -definition, Plagiarism arising out of misrepresentation-contract cheating, collusion, copying and pasting, recycling, Avoiding Plagiarism through referencing and writing skills, UGC Policy for Academic Integrity and prevention, Some Plagiarism detection tools.

UNIT-2

Research and Publication ethics: Scientific misconducts- Falsifications, Fabrication and Plagiarism (FPP), Publication ethics-definition, introduction and importance, Best practices/standard setting initiatives and guidelines-COPE, WAME etc., Violation of publication ethics, authorship and contributor-ship, Identification of publications misconduct, complains and appeals, Conflicts of Interest, Predatory publisher and journals.

Suggested Reading:

- Beall J (2012). *Predatory publishers are corrupting open access*, Nature, 489 (7415), 179.
- Chaddah P (2018), *Ethics in Competitive Research: Do not get scooped; do not get plagiarized*. ISBN: 978-9387480865
- Indian National Science Academy (INSA), *Ethics in Science Education, Research and Governance (2019)*. ISBN: 978-81-939482-1-7.
- MacIntyre A (1967) *A short History of Ethics*, London
- National Academy of Sciences, National Academy of Engineering and Institute of Medicine(2009) *On being a Scientist: A guide to Responsible Conduct in research*: Third Edition. National Academics press.

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- Resnik D. B. (2011) *What is ethics in research & why is it important*. National Institute of Environmental Health Sciences, 1-10.
- UGC regulations (2018), *For Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutes*.
- Ulrike Kestler, *Academic Integrity*, Kwantlen Polytechnic University.

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M.A. History & Archaeology 4th Semester Group-A (Indian Archaeology) Course Code : MA/H&A/4/DSC13 Course: Field Archaeology & Historical Archaeology of India		Total Credits: 4 Time: 3 Hrs. Marks: 100 Theory: 60 Practical: 40
Note: For The Paper Setter: External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 6 short answer type questions of 2 marks spread over the entire syllabus (2x6=12 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (12 marks each). 		
Practical: <ol style="list-style-type: none"> 1. For the practical exam students have to attend 20 to 30 days training camp in a archaeological Excavation and have to submit a practical file. 		
Course Outcomes:		
CO1	Got basic knowledge of scope of Archaeology and relation of Archaeology with social sciences & Pure sciences.	
CO2	Got knowledge about excavation, its preliminaries, staff and equipments, etc.	
CO3	Understand the Characteristics and Chronology of Northern Black Polished Ware Culture and significance of pottery.	
CO4	Study the various excavated sites i.e. Taxila, Ropar, Thanesar, Hastinapur, Atranjikhhera, Kausambi, Vaishali, Nagarahunikonda, Arikamedu	
UNIT-1 Definition and Scope of Archaeology; Relationship of Archaeology with Social Sciences and Pure Sciences; History of Indian Archaeology; Forms of Archaeological Data.		
UNIT-2 Methods of discovering the sites: Aims & Methods of Excavation, Methods of discovering the sites (Explorations); Significance of Pottery, Stratigraphy, Photography, Drawing; Chemical Treatment and Preservation of Archaeological Finds, Conservation of Monuments; Threats of Archaeological Sites and Archaeology and Public Awareness		
UNIT-3 Historical Urbanization: NBPW Culture- Extent Chronology and Characteristics, Dating: Relative, Absolute.		
UNIT-4 Detailed Study of the following excavated sites: Taxila; Ropar; Thanesar; Hastinapur; Kausambi; Vaishali		

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Suggested Reading:

- Agrawal, D.P. and Yadav, M.D., 1995, *Dating the Human Past, Indian Society for Prehistoric Studies*, Pune.
- Atkinson, R.J.C. , 1961, *Field Archaeology*, London.
- Banerjee, N.R. , 1965, *The Iron Age in India*, New Delhi.
- Chakraborti, D.K, 1988, *A History of Indian Archaeology*, Munshiram Manoharlal, Delhi.
- Child, V.G. , 1966, *Piecing together the Past*, Routledge and Kegan Paul, London.
- Choubey, Ramesh , 2007, *Puratatvik Manav Vigyan*, Madhya Pradesh Hindi Granth Academy, Bhopal.
- Crawford, O.G.S. , 1960, *Archaeology in the Field (4th Edn.)*, New York.
- Daniel, Glyn , 1967, *The Origins and Growth of Archaeology*, Harmondsworth, Penguin Books.
- Dhavalikar, M.K. , 1999, *Historical Archaeology of India*, Books and Books, Delhi.
- Drewet, Peter L., 1999, *Field Archaeology: An Introduction*, London, UCL Press.
- Gaur, R.C. , 1983, *Excavations at Atranjikhhera*, Motilal Banarsi Dass, Delhi.
- Ghosh, A. , 1973, *The City in Early Historical India*, Shimla.
- Kenyon, K.M. , 1961, *Beginnings in Archaeology*, London.
- Krishnamurthy, K. , 1995, *Introducing Archaeology*, Ajanta Publications, Delhi.
- Marshall, J. , 1951, *Taxila (Three Vols.)*.
- Ojha, Shri Krishna, 1985, *Bharatiya Puratattva*, Research Publications, Delhi.
- Plenderleith, H.J. , 1974, *The conservation of Antiquities and works of Art*, London.
- Raman, K.V. , 1986, *Principles and Methods of Archaeology*, Parthajan Publications, Madras.
- Singh, Madanmohan , 1981, *Puratattva ki Ruparekha*, Janki Prakashan, Delhi.
- Sinha, B.P. (ed.) , 1969, *Potteries in Ancient India*, Patna.
- Srivastava, K.M. , 1982, *New Era of Indian Archaeology*, Delhi.
- Thapalyal, K.K. and Shukla, S.P., 1999, *Puratattva Praveshika*, Bharat Book Centre, Lucknow.
- Wheeler, R.E.M. , 1963, *Archaeology from the Earth*, Penguin Books, London.
- Wheeler, R.E.M. , 1968, *Prithvi Se Puratattva*, Delhi.

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M.A. History & Archaeology 4th Semester Group-A (Indian Archaeology) Course Code : MA/H&A /4/DSC14 Course: Ancient Indian Epigraphy and Palaeography-II		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got the basic knowledge about the importance of various historical and cultural inscriptions i.e. Sarnath Buddhist Image inscriptions of Kanishka-I, Nasik Cave Inscriptions of Vasishthiputra Pulumavi, Girnar (junagarh) Rock inscriptions of Rudramana-I, and Mathura Stone Inscriptions of Huvishka etc.	
CO2	Got the basic knowledge about the importance of various historical and cultural inscriptions i.e. Allahabad Pillar Inscription of Samudragupta.	
CO3	Critically analyze the various aspect of inscriptions and their importance as a source of Indian History.	
CO4	Understand the importance of another various historical and cultural inscriptions i.e. Mehrauli Iron Pillar Inscription of Chandragupta, Bhitari Stone Pillar Inscription of Skandagupta, Mandisor Pillar Inscription of Yasodharman Vishnuvardhana etc.	
UNIT-1		
Historical and Cultural importance of the following inscriptions: Sarnath Buddhist Image inscription of the time of Kanishka I (Regnal year 3); Nasik cave inscription of Vasishtha Putra Pulumavi (Regnal Year 19); Girnar (Junagadh) Rock inscription of Rudradaman I; Mathura Stone inscription of Huvishka.		
UNIT-2		
Historical and cultural importance of the following inscriptions: Allahabad Pillar Inscription of Samudragupta; Mehrauli Iron Pillar Inscription of Chandragupta; Bhitari Stone Pillar Inscription of Skandagupta; Mandsaor Pillar Inscription of Yasodharman Vishnuvardhana (M.S. 589).		

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UNIT-3

Historical and cultural importance of the following inscription:

Haraha Inscription of Isanavarman; Banskhera Copper-Plate Inscription of Harsha; Aihole Inscription of Pulakesin-II; Gwalior Inscription of Mihirabhoja.

UNIT-4

Inscriptions for decipherment into Devanagari/Roman script and transliteration into original script (in part or full):

Sarnath Buddhist Image inscription of Kanishka (Regnal Year 3);
Mathura Stone Inscription of Huvishka (Year 28);
Nasik Cave Inscription of Yajna Satakarni (Year 7);
Mehrauli Iron Pillar Inscription of Chandra.

Suggested Reading:

- Agrawal, Jagannath, 1986, *Researches in Indian Epigraphy and Numismatics*, New Delhi.
- Bajpai, K.D. , 1992, *Aitihāsik Bhārtiya Abhilekh*, Jaipur.
- Goyal S.R. , 1982, *Prachin Bhārtiya Abhilekh Sangraha*, Part-I, Jaipur.
- Goyal S.R. , 1984, *Guptakalin Abhilekh*, Meerut.
- Goyal S.R. , 1987, *Maukhari-Pushyabhuti-Chalukyayugin Abhilekh*, Meerut.
- Gupta, P.L. , 1979, *Prachin Bharat Ke Pramukh Abhilekh*, Part-I, Varanasi.
- Hultzsch E. (ed.) , 1991, *Corpus Inscriptionum Indicarum*, Vol. I, New Delhi.
- Ojha, G.H. , 1959, *Prachin Bhārtiya Lipimāla*, Delhi.
- Pandey, R.B. , 1962, *Historical and Literary Inscriptions*, Varanasi.
- Sircar, D.C. , 1965, *Indian Epigraphy* (trans. in Hindi by K.D. Bajpai), Motilal Banarsidass, Delhi.
- Sircar, D.C. , 1965, *Select Inscriptions*, Vol. I, Calcutta.
- Thaplyal, K.K. , 1985, *Inscriptions of Maukhris, Later Guptas, Pushyabhutis and Yashoverma of Kanauj*, Delhi.
- Upadhyaya, V, 1974 , *Gupta Abhilekh*, Patna.
- Upadhyaya, V. , 1961, *Prachin Bhārtiya Abhilekhon Ka Adhyayana*, Delhi.

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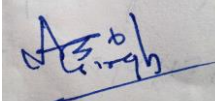
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M.A. History & Archaeology 4th Semester Group-A (Indian Archaeology) Course Code : MA/H&A/4/DSC15 Course: Ancient Indian Numismatics-II		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got the basic knowledge about the Kushana Numismatics and Early Coins of south and western India.	
CO2	Understand the Gupta Coins.	
CO3	Obtain the interpretation of the numismatic iconography as an important source for historical, artistic studies and understand the Early medieval coins.	
CO4	Learn how identify coins of several periods and understand the decipherment and transliteration of Greek script(Gold coins only).	
UNIT-1		
Kushana Numismatics: Early Kushana Coins: Kujula Kadphises; Soter magus and Wima Kadphises; Kushan Sassanid Coins; Kidara Kushan, Puri Kushana Coins.		
UNIT-2		
Early Coins of South and Western India: Satavahana Coins; Western Kshatrapa Coins; Roman and Byzantine Coins in India.		
UNIT-3		
Gupta Coins: Coins of Chandragupta- I and Kacha Gupta; Coins of Samudragupta; Coins of Chandragupta-II; Coins of Kumaragupta; Coins of Skanda Gupta.		
UNIT-4		
Early Medieval Coins: Huna Coins; Gurjara Pratihara Coins; Shahi Coins.		
Coins for Decipherment (gold coins only): Kushana Coins and Gupta Coins		

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Suggested Reading:

- Altekar, A.S. , 1954, *The Coinage of the Gupta Empire*, Varanasi.
- Altekar, A.S. , 1972, *Gupta Kalina Mudrayen*, Patna.
- Bajpai, K.D. , 1976, *Indian Numismatic Studies*, New Delhi.
- Bhandarkar, D.R. , 1984, *Carmichael Lectures, Ancient Indian Numismatics*, Patna.
- Chakraborti, Swati, 1986, *Socio-religious and Cultural Study of Ancient Indian Coins*, Delhi.
- Chattopadhyaya, B. , 1964, *The Age of the Kushans: A Numismatic Study*, Calcutta.
- Cunningham A. , 1971, *Coins of Ancient India*, Varanasi.
- Dutta, M. , 1996, *A Study of the Satavahana Coinage*, New Delhi.
- Gopal, L. , 1966, *Early Medieval Coin types of Northern India*, Varanasi.
- Gupta, P.L. , 1996, *Coins*, New Delhi.
- Rao, Rajvant & Rao, P.K. , 1998, *Prachin Bhartiya Mudrayen*, Motilal Banarsidass, Delhi.
- Santosh Bajpai, 1997, *Aitihasic Bhartiya Sikke*, Delhi.
- Satya Shreva, 1985, *The Kushana Numismatics*, Delhi.
- Sharma, I.K. , 1980, *Coinage of the Satavahana Empire*, New Delhi.
- Thakur, Upendra , 1972, *Mints and Minting in India*, Varanasi.
- Upadhyaya, V. , 1986, *Prachina Bhartiya Sikke*, Allahabad.

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M.A. History & Archaeology 4th Semester Group-B (Ancient India) Course Code : MA/H&A/4/DSC16 Course: Political History of India (C. 320 AD to 1200 AD)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got the basic knowledge about the Imperial Guptas i.e. Early Kings, Samundagupta's achievements, Ramgupta, Chandra Gupta and Skandagupta	
CO2	Understand the accouns of Fa-hien, Emergence of New powers i.e. The Hunas and The Maukharis.	
CO3	Understand the Pushpabhutis, Harshvardhana and accounts of Huien-Tsang.	
CO4	Understand critically evaluate the knowledge of human evolution in world scenario as well as India.	
UNIT-1		
Gupta Empire: Early Gupta; Samudragupta, Ramgupta, Chandragupta-II, Skandagupta Aftermath; Decline - Later Guptas; Nature and Administration; Fa-hien Accounts.		
UNIT-2		
Emergence of New Powers: Hunas; The Maukharis; Pushyabhutis: Expansion, Harshvardhan - Political Administration, Achievements; Account of Huen-Tsang.		
UNIT-3		
New Political Powers and struggles there in: Yashovarman of Kannauj; Palas; Pratihars; Rashtrakuta.		
UNIT-4		
Regional Powers: Chalukyas; The Chandelas; Parmars; Chahamanas; Gahadavalas; Pallavas; Cholas.		

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Suggested Reading:

- Ayanger, K. , 1984, *South Indian History and Culture*, Bombay.
- Chatterjee, G. , 1950, *Harsha Vardhana* (in Hindi, 2nd edn), Allahabad.
- Chattopadhyaya, S. , 1993, *Early History of North India*, Delhi.
- Devahuti, D. , 1970, *Harsha : A Political Study*, Oxford University Press.
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- Goyal, S.R. , 1986, *The Imperial Guptas*, Meerut.
- Majumdar, R.C. & Altekar, A.D. , 1967, *The Vakataka- Gupta Age* (English (ed.) Hindi), Motilal Banarsidass, Delhi.
- Majumdar, R.C. , 1966, *Struggle for Empire*, 2nd edn. Bombay.
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- Majumdar, R.C., 1970, *Age of Imperial Kanauj*, Bhartiya Vidya Bhavan, Bombay, (3rd Edn.).
- Mitra, S.K. , 1977, *Early Rulers of Khajuraho*, Motilal Banarsi Dass, 2nd (edn.) Delhi.
- Pathak, V. , 1974, *Uttari Bharat Ka Rajnitik Itihas*, Delhi.
- Puri, B.N. , 1937, *History of Gurjara Pratiharas*, Bombay.
- Rai, Udai Narain , 1982, *Gupta Samrata aur Unka Kala*, Delhi.
- S.Prakash , 1999, *Bharat Ka Itihas: Rajput Kal*, Jaipur.
- Sastri, K.A.N. , 1975, *The Cholas*, University of Madras, Madras.
- Sharma, Dashrath , 1952, *Early Chauhan Dynasties*, Delhi.
- Sharma, Dasrath , 1966, *Rajasthan through the Ages*, Bikaner.
- Thakur, Upendra , 1976, *The Hunas in India*, Delhi.
- Tripathi, R.S. , 1937, *History of Kanauj*, Banaras.
- Yazdani, G. , 1982, *The Early History of Deccan*, Oriental Book-reprint Corporation, New Delhi.

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M.A. History & Archaeology 4th Semester Group-B (Ancient India) Course Code : MA/H&A/4/DSC17 Course: Society and Culture of India-2 (ET-C.1200 A.D.)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes :		
CO1	Students get basic knowledge about the Kusanas, Satavahans and Sangam Age : Society and Culture.	
CO2	Student understand the geenal features and culture of Gupta and Post-Gupta Society.	
CO3	Student understand the social institutions i.e. Untouchability, labour and education and educational institutions.	
CO4	Students understand the status of women during that time.	
UNIT-1		
Society and Cultures: Kusanas; Satavahanas; Sangam Age.		
UNIT-2		
Gupta and Post Gupta Society: General features of Society and Culture; Early Medieval Society; Communication and Social Cohesion		
UNIT-3		
Social Institutions: Untouchability; Labour; Education and Educational Institutions.		
UNIT-4		
Status of Women: Family; Marriage; Education; Property rights.		
Suggested Reading: <ul style="list-style-type: none"> • Altekar, A.S. , 1975, <i>Education in Ancient India</i>, Varanasi. • Altekar, A.S. , 1999, <i>Position of Women in Hindu Civilization</i>, Delhi. • Bhattacharya, S.C. , 1978, <i>Some Aspects of Indian Society from 2nd Century B.C. to 4th Cent. A.D.</i>, Calcutta. • Chakladar, H.C. , 1976, <i>Social Life in Ancient India</i>, Delhi. • Chattopadhyaya, B. , 1978, <i>Kushana State and Indian Society</i>, Punthi Pustak, Calcutta. 		

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- Kane, P.V. , 1930, *History of Dharamshastra* (Relevant Vols.) Bhandarkar Orient Research Institute, Pune.
- Pandey, R.B. , 1969, *Hindu Samskara*, Motilal Banarsidass (2nd), Delhi.
- Prabhu, P.N. , 1940, *Hindu Social Organization*, Popular Prakashan, Bombay.
- Rapson, E.J. , 1955, *The Cambridge History of India Vol. I* (ed.), Delhi.
- Sharma, R.S. , 1969, *Social change in Early Medieval India*, Delhi.
- Sharma, R.S. , 1980, *Surdas in Ancient India*, Motilal Banarsidass, (2nd) Delhi.
- Sharma, R.S. , 1983, *Material culture and Social formations in Ancient India*, Macmillan Delhi.
- Sharma, R.S. , 1983, *Perspectives in Social and Economic History of Early India*, Munshiram, Manohar Lal Publishers, New Delhi.
- Shastri, K.A. N. , 1987, *Comprehensive History of India Vol. II* (ed.), Reprint, Delhi.
- Thapar, Romila , 1968, *Asoka and Decline of the Mauryas*, Delhi.
- Thapar, Romila, 1972, *Ancient Indian Social History-Some interpretations*, Delhi.
- Thapar, Romila, 1984, *From Lineage to Caste*, Delhi.
- Wagle, W.G. , 1969, *Society at the time of Buddha*, Bombay.
- Yadav, B.N.S. , 1973, *Society and Culture of Northern Indian in the 12th Century*, Central Book Depot, Allahabad.

M.A. History & Archaeology 4th Semester
Group-B (Ancient India)
Course Code : MA/H&A/4/DSC18
Course: Economic History of India-2 (ET-C.1200 A.D.)

Total Credits: 4
Time: 3 Hrs.
Marks: 100
External: 70
Internal: 30

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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes :

CO1	Got basic knowledge about the Imperial system i.e. Gupta and Post-Gupta Economy, Feudal Economy and peasantry.
CO2	Understand the Agrarian Economy i.e. Land System-Land Revenue, Ownership of Land, Irrigation System.
CO3	Understand the Emergence and Growth of Industries i.e. Metal, Pot Making, Textile, Guilds in Buddhist Period and Trade and Commerce in Buddhist period
CO4	Understand the Trade and Commerce and Foreign Trade with special reference to Western and South East Asia.

UNIT-1

Imperial system:

Gupta and Post Gupta Economy-Salient features; Feudal Economy; Peasantry.

UNIT-2

Agrarian Economy:

Land System-Land Revenue; Ownership of Land; Irrigation System.

UNIT-3

Trade & Commerce:

Inland Trade; Foreign Trade with special reference to Western and South East Asia; Decline of Trade and Commerce.

UNIT-4

Deccan:

Patterns of Economic developments South India; Agrarian economy; Economic importance of Temple's economy; Trade and Guilds; Fairs and Festivals.

Suggested Reading:

1. Adhey, G. L. , 1966, *Early Indian Economics*, Asia Publishing House, Delhi.
2. Dass, D.R. , 1969, *Economic History of the Deccan*, Delhi.
3. Ghoshal, U.N. , 1929, *Contribution to the History of Hindu Revenue System*, Calcutta.
4. Ghoshal, U.N. , 1973, *Agrarian System in Ancient India*, Calcutta University, 2nd (ed.) Calcutta.
5. Gopal, Lallanji , 1989, *Economic Life in Northern India*, Motilal Banarsidass, 2nd (ed.)

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6. Jha, D.N. , 1967, *Revenue System in Post Mauryan and Gupta Times*, Punthi Pustak, Calcutta.
7. Jha, D.N. , 1980, *Studies in Early Indian Economic History*, Anupma Publishers, Delhi.
8. Maity, S.K. , 1957, *Economic Life of Northern India in the Gupta Period*, World Press, Calcutta.
9. Majumdar, B.P. , 1960, *Socio-economic History of Northern India*, Calcutta.
10. Sharma, R.S. , 1983, *Material Culture and Social formations in Ancient India*, Macmillan, Delhi.
11. Sharma, R.S. , 1995, *Perspective in Social & Economic History of Early India 2nd (edn.)* Munshiram Manoharlal, New Delhi.
12. Sircar, D.C. (ed.) , 1966, *Land System and Feudalism in Ancient India*, Calcutta University Press, Calcutta.
13. Spengler (ed.) , 1971, *Indian Economic Thought*, Duke University Press.
14. Srivastava, B. , 1968, *Trade & Commerce in Ancient India*, Varanasi.
15. Yazdani, G. , 1982, *Early History of Deccan*, Oriental Book reprint, New Delhi.

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M.A. History & Archaeology 4th Semester Group-C (Medieval India) Course Code : MA/H&A/4/DSC19 Course: Political History of India (C. 1526 to 1707 AD)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got basic knowledge about the Mughal Sources & Mughal theory of Sovereignty.	
CO2	Understand the Abul Fazal and Mughals theory of Kingship, Nature of Mughal State..	
CO3	Understand the evolution of Mughal administrative institutions, central administration and provincial Administration.	
CO4	Understand the composition and role of Nobility, Karkhanas and Military Organization.	
UNIT-1		
Sources and Historiography of Mughal History, Foundation of Mughal Rule in India under: Babur, Humayun, Sher Shah Suri		
UNIT-2		
Consolidation of Mughal Empire under: Akbar, Jahangir Development and Disintegration of Mughal Empire: Shahjahan, War of Succession and Rise of Aurangzeb, Later Mughal's.		
UNIT-3		
Mughals In South India: Bider, Berar, Ahmednager, Bijapur, Golconda, Shivaji and Marathas, Marathas in 18th – 19th Century.		
UNIT-4		
Rise of Sikh Power: Sikh Guru's and Teachings of Sikhism, Sikh Empire till 1849 A.D., Revolt of 1857 and Mughal Empire.		
Suggested Reading: <ul style="list-style-type: none"> • Alam, Iqtidar , 1975, <i>The Middle Classes in the Mughal Empire</i> (Presidential Address) IHC, Aligarh. • Ather, Ali , 1997, <i>Mughal Nobility under Aurangzeb</i>, Delhi. • Aziz, Ahmed, 1964, <i>Studies in Islamic Culture in the Indian Environment</i>, Oxford. • Bhandarkar, R.G. , 1959, <i>Vaishnavism Shaivism and minor Religious System</i>, Poona. • Chandra, Satish, 1997, <i>Historiography, Religion and State in Medieval India</i>, Delhi. • Chandra, Satish, 1999, <i>Medieval India Part II Mughal Empire 1526-1748</i>, Delhi. 		

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- Habib, Irfan, 1981-2003, *Madhya Kaleen Bharat Vols. 1 to 8 (Relevant Articles)*, New Delhi.
- Habib, Irfan, 2002, *Bhartiya Itihas Mein Madhyakal*, Delhi.
- Hussain, Yusuf , 1962, *Glimpses of Medieval Indian Culture*, Delhi.
- Mahender, Singh, 2020, *Bharat Europiya Yaatriyon ki Drishti mein*, Delhi.
- Majumdar, A.K. , 1965, *Bhakti Renaissance, Bhartiya Vidya Bhawan*, Bombay.
- Mansura Haider: , 2004, *Sufis, Sultans and Feudal Orders*, Delhi.
- Misra, Rekha , 1967, *Women in Mughal India*, Allahabad.
- Moreland, W.H. , 1990, *India at the Death of Akbar*, Delhi.
- Nizami, K.A. , 1978, *Some Aspects of Religion and Politics in India during the 13th Century*, Delhi.
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- Rizvi, S.A.A. , 1997, *A History of Sufism in India 2 Vols.*, Delhi.
- Saxena, R.K. , 1996, *Madhya Kaleen Bharat Ki Arthik Pahloo*, Jaipur.
- Sharma, G.D. , 1992, *Madhya Kalin Bharat Ki Rajnitik, Samajik Avam Aarthik Sansthayen* (in Hindi), Jaipur.
- Tara Chand , 1976, *Influence of Islam on Indian Culture*, Allahabad.
- Verma, H.C. , 1983, *Madhya Kaleen Bharat Vol. I & II* (in Hindi) Delhi.

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M.A. History & Archaeology 4th Semester Group-C (Medieval India) Course Code : MA/H&A/4/DSC20 Course: Political Institutions (C. 1200 to 1707 AD)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got basic knowledge about the sources of Mughal History, Construction of Imperial Authority, Legitimacy and Kingship.	
CO2	Understand the relations with Rajputs, Zamindari Policy of the Mughals, Mansabdari System.	
CO3	Understand the provincial government, central government and nature of Mughal.	
CO4	Understand the Decline of Mughal and the Eighteenth Century Debate, Modern Historiography on the Decline	
UNIT-1		
Theory of Sovereignty: Sultanate & Mughals Theory of Kingship: Sultanate & Mughals Theory of Legitimacy: Sultanate & Mughals		
UNIT-2		
Nature of State: Sultanate State & Mughal State Administration: Central & Provincial: Sultanate Period & Mughal Period		
UNIT-3		
Nobility: Composition and Functioning: Sultanate Period & Mughal Period Military Organization: Under Sultans & Under Mughals		
UNIT-4		
Policies of The Mughal State (1526-1707A.D.): Religious Policy, Rajput Policy, South India Policy, North-West Frontier Policy		
18th Century and Mughal State: 18th Century Debate, Rise of Regional States : Bengal, Awadh and Hyderabad and Mughals policy Towards them		
Suggested Reading : <ul style="list-style-type: none"> • Ali M. Athar , 1989, <i>Recent Theories of Eighteenth Centuries India</i>, The Indian Historical Review. • Ali M. Athar, 1993, <i>The Mughal Polity-A Critique of Revisionist Approaches</i>, Modern Asian Studies. • Ashraf, K.M. , 1990, <i>Life and Condition of the people of Hindustan</i>, Delhi, 1990. • Burton Stein ,1990, <i>A Decade of Historical Efflorescence</i>, South Asia Research. • Chandra, Satish, 1998, <i>Medieval India-Vol . I (From Sultanate to the Mughal)</i>, New 		

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- Day, U.N. , 1993, *Government of Sultanate*, New Delhi.
- Douglas E. Streusand , 1989, *The Formation of the Mughal Empire*, Oxford University Press Delhi.
- Habib Irfan , 1963, *The Agrarian System of Mughal India: 1556-1707*, Asia Publishing House, New York.
- Habib Irfan, 1981-2003, *MadhyaKaleen Bharat Vols. I-VIII* (in Hindi Relevant articles), New Delhi.
- Habib Irfan, 1992, *Researches in the History of India 1200-1750*, Delhi.
- Habibullah, A.B.M. , 1992, *A Foundation of Muslim rule in India*, Allahabad.
- Harbans Mukhia , 1993, *Perspectives on Medieval History*, New Delhi.
- Hermann Kulke (ed.) , 1997, *State in India 1000-1700*, OUP, New Delhi.
- Hitti, P.K. , 1970, *History of the Arabs*, London.
- J.F. Richards , 1978, *Kingship and Authority in South Asia*, University Of Wisconsin-Madison Publication Series.
- Lal, K.S. , 2001, *Historical Essays (Relevant Articles), Vol.II*, Delhi
- Muhibbul Hasan , 1968, *Historians of Medieval India*, Meerut.
- Nigam, S.B.P. , 1968, *Nobility under the Sultans of Delhi*, Delhi.
- Nizami , K.A. , 1978, *Some aspects of Religion and Politics in India during the Thirteenth Century*, Delhi.
- Qureshi, I.H. , 1942, *Administration of the Sultans of Delhi*, Lahore.
- Richard B, Barnett (ed.) , 2002, *Rethinking Early Modern India*, Delhi.
- Rizvi, S.A.A. , 1956, *Aadi Turk Kaleen Bharat*, Aligarh.
- Rizvi, S.A.A. , 1987, *The Wonder that was India, Vol. II*, London.
- Satish Chandra, 1996, *Essays on Medieval Indian Economic History*, New Delhi.
- Satish Chandra, 2003, *Essays on Medieval Indian History*, New Delhi, OUP.
- Siddiqui, I.H. , 2004, *Authority and Kingship under the sultans of Delhi (13th-14th Centuries)*, Delhi.
- Tripathi, I.R.P. , 1989, *Some Aspect of Muslim Administration*, Allahabad.
- Verma, H.C., *Madhya Kaleen Bharat Vol. I 750- 1540 A.D.*, Hindi karyalya Madhyam Anveshan D.U.

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M.A. History & Archaeology 4th Semester Group-C (Medieval India) Course Code : MA/H&A/4/DSC21 Course: Economy of India (C. 1526-1757 A.D.)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got basic knowledge about the Land Revenue System, Categories of Peasants and Village Community.	
CO2	Understand the Jagir System and its crisis, Agrarian Crisis, Ijara System and Madadi-Maash Grants.	
CO3	Understand the Potentialities fo Capitalists Development under the Mughals, Dadni system, Role of Nexus etc.	
CO4	Understand the Industries and Mineral Resources, Trade and Commerce : Inland and External Trade, Centres of Large Scale Production and Euro-Indian Trade : Merchants and Brokers.	
UNIT-1 Land Revenue System : Magnitude : Methods of Assessment, Mode of Payment; Other Rural Taxes and Exaction, Categories of Peasants, Village Community		
UNIT-2 Jagir System and its crisis, Agrarian Crisis, Ijara System, Madad-i-Maash Grants		
UNIT-3 Potentialities of Capitalists Development under the Mughals, Usuary, Dadni System, Role of Cash Nexus		
UNIT-4 Industries and Mineral Resources, Trade and Commerce : Inland and External Trade, Centres of Large Scale Production, Euro-Indian Trade : Merchants and Brokers		
Suggested Reading: <ul style="list-style-type: none"> • Afzal, Ahmed, 2008, <i>Indo-Portuguese Diplomacy during the 16th and 17th Centuries (1500-1663)</i> Originals, Delhi • Bagchi Arniya Kumar Ed. , 2002, <i>Money and Credit in Indian History</i>, Tulika • Bayly, C.A. , 1992 ,<i>Rulers, Townsmen and Bazaars North Inian Society in the age of British Expansion 1770-1870</i>, OUP. • Chandra Satish (Ed.) , 2008, <i>Religion, State and Society in Medieval India</i>, OUP • Chandra, Satish, 2007, <i>Medieval India-from Sultanate to the Mughals, Vol. 1 and II</i> 		

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(English & Hindi), New Delhi.

- Chaudhary, Tapan Ray, 1982, *Cambridge Economic Irfan Habib (ed.) : History of India (c.1200-1750 A.D.) Vol. I* OUP
- Habib Irfan (Ed.) ,1992, *Medieval India* Habib Irfan (Ed.) : *Researches in the History of India 1200-1750* (Hindi and English), OUP
- Methew, K.S. , 1983, *The Portuguese Trade with India in the Sixteenth Century*, New Delhi
- Mukhia, Harbans , 1993, *Perspectives on Medieval History*, New Delhi
- Panikar K.N. Byres T.T. & Pathnaik, 1998 , *The Making of History-Essays Presented Utsa to Irfan Habib & Utsa Pathnaik Om Parkaksh : European Commercial Enterprise in Pre-Colonial India*, OUP
- Seema Alvi (Ed.) , 2008 ,*The Eighteenth Century in India*, OUP.
- Siddiqui N.A. , 1970, *Land Revenue Administration under the Mughals (1700-1750)*, APH, Bombay
- Subramanyam Sanjay Ed., *Merchants, Markets and the State in Early Modern India*, Delhi, 1990 " & *Merchants Networks in the Early Modern World*,
- Verma, H.C. , 1971, *Medieval Routes to India Chicherov*, Manohar Delhi
- W.H. Moreland , a) *Agrarian System of Moslem India*, (Reprint) New Delhi, 1968 " : b) *India at the death of Akbar*, (Reprint) New Delhi, 1990 " : c) *From Akabar to Aurangzeb : A Study in Indian Economic History* (Reprint) New Delhi

M.A. History & Archaeology 4th Semester
Group-D (Modern India)
Course Code : MA/H&A/4/DSC22
Course: Indian National Movement (C. 1885-1947 A.D.)

Total Credits: 4
Time: 3 Hrs.
Marks: 100
External: 70
Internal: 30

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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Got basic knowledge about the emergence of the mass movements. civil disobedience movement etc.
CO2	Understand the last phase of Revolutionary Movement. Indian National Congress and Socialist Movement.
CO3	Understand the Quit Indian Movement, Emergence of States People's Conference, Praja Mandal Movement.
CO4	Understand the Communalism at its Zenith. To understand the British Response Transfer of Power.

UNIT-1

Indian Nationalism: Emergence, Causes and Approaches, Emergence of Indian National Congress, **Nationalist Agitation (1885-1919):** Moderates : Programmes and Ideology, Extremists : Programmes and Ideology, Swadeshi Movement, Home Rule Movement

UNIT-2

Communal Politics:All India Muslim League, Hindu Mahasabha, Lucknow Pact
Emergence of Mass Movement:Non-Cooperation and Khilafat Movement, Civil Disobedience Movement, Quit India Movement

UNIT-3

The Revolutionary Movement and constitutional development: Early Phase, Hindustan Socialist Republican Association (HSRA), Rise of Left Politics, Forward Bloc- I.N.A., Marley-Minto Reforms, Montague Chelmsford Reforms, Government of India Act (1935)

UNIT-4

Communal Politics and Constitution Deadlock:Demand for Pakistan, Growth of Muslim League, Cripps Mission – 1942, Cabinet Mission- 1946, Mountbatten Plan -1947

Suggested Reading:

- Brown, Judith , 1972, *Gandhi's Rise to Power: Indian Politics 1915-1922*, Cambridge.
- Bhaskar, Arvind, 2021, *Bharat Ka Swatantrta Sangram (Part-1&2)*, Kalam Publication
- Chandra Bipan, 1987, *Communalism in Modern India*, New Delhi.
- Chatterjee, Rakhhari , 2020, *Gandhi aur Ali Bandhu*, Sage Bhasha Publication
- Das, M.N. , 1964, *India under Morley and Minto*, London.
- Desai, A.R, 2018, *Bhartiya Rashtarvaad kee Samajik Prashtbhoomi*, Sage Bhasha Publication
- Desai, A.R. , 1959, *Social Background of Indian Nationalism*, Bombay.

Anil Kumar

P.N. Agri.

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- Dhankhar, Jaiveer S. , 2000, *Prelude to Pakistan*, Delhi.
- Dhankhar, Jaiveer S. , 2001, *A Short History of Hindustan Socialist Republic an Association*, Delhi.
- Dutt, R.P. , 1949, *India Today*, Bombay.
- Gopal, S. , 1975, *JawaharLal Nehru Vol. I-3*, Delhi.
- Madame Bhikaji Cama, 1952, *A True Nationalist*, Delhi.
- Majumdar, R.C. , 1962-63, *History of Freedom Movement Vol. I, II, III*, Calcutta.
- Mehrotra, S.R. , 1971, *The Emergence of Indian National Congress*, Delhi.
- Minault, Gail , 1982, *Khilafat Movement: The Religious symbolism and Political Mobilization in India*, New York.
- Mujeeb, M, 1967, *Indian Muslims*, London.
- Pradhan, G. , 1924, *India's Struggle for Swaraj*, Madras.
- Ravinder Kumar , 1971, *Essays in Gandhian Politics: The Rowlatt Satyagraha of 1919*, London.
- Sarkar, S. , 1973, *Swadeshi Movement in Bengal-1903-1908*, New Delhi.
- Sarkar, S. , 1983, *Modern India 1885-1947*, New Delhi.
- Seal, Anil, 1968, *The Emergence of Indian Nationalism*, Cambridge.
- Singh, Parduman, 2001, *Lord Minto and Indian Nationalism 1905-1910*, Delhi.
- Tara Chand , 1961, *History of the Freedom Movement Vol. I, II, III, IV (4 Vols.)*, Delhi.
- Tripathi, A. , 1967, *The Extremist Challenge: India between 1890-1910*, Calcutta.
- Wolpert Stanley A. , 1962, *Tilak and Gokhle*, California.
- Yadav, B.D, 1992, *Allan Octavian Hume-Father of the Congress*, Delhi

M.A. History & Archaeology 4th Semester

Group-D (Modern India)

Course Code : MA/H&A/4/DSC23

Course: Society and Culture of India-II (C. 1757-1947 A.D.)

Total Credits: 4

Time: 3 Hrs.

Marks: 100

External: 70

Internal: 30

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A.S. Singh

Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Got basic knowledge about the rise of new classes and role of middle class in Modernization.
CO2	Understand the causes and anture of Indian Cultural Renaissance Raja Ram Mohan Roy and Brahma Samaj and Ram Krishnan Mission.
CO3	Understand the Wahabi Movement and Arya Samaj Movementm and Aligarh Movement.
CO4	Understand the Rise and Growth of depressed class movement, untouchability etc.

UNIT-1

New Classes: Rise of New Classes, Role of Middle Class in Modernization

Tradition and Modernity: Concept, Process

UNIT-2

Indian Cultural Renaissance: Causes and Nature, Raja Ram Mohan Roy and Brahma Samaj

Legacy of Cultural Renaissance: Ram Krishan Mission, Theosophical Society

UNIT-3

Revivalist Movements: Wahabi Movement, Arya Samaj Movement

Aligarh Movement: Sir Syed Ahmed Khan and Aligarh Movement, Role in Education, Impact of Indian Muslims

UNIT-4

Depressed Class Movement: Its Rise and Growth, Problem of Untouchability, Factors for its Amelioration

British Rule and Indian Society: Impact, Continuity and change

Anil Kumar

P.N. Singh

J.S. Singh

A.S. Singh

Suggested Reading:

- Ahmed, A.F.S. , 1965, *Social Ideas and Social Change in Bengal, 1818-1835*, London.
- Ahmed, Q. , 1966, *The Wahhabi Movement in India*, Calcutta.
- Baird, Robert (ed.) , 1981, *Religion in India*, Delhi.
- Bhaskar, Arvind, 2021, *Bharat Ka Swatantrta Sangram (Part-1&2)*, Kalam Publication
- Das, M.N., Chopra, P.N. and Puri, B.N. ,1976, *Social and Economic History of India, III*, New Delhi
- De, Barun , 1988, *Presidential Address to the Indian History Congress*, Dharwad Session.
- Desai, A.R. , 1981, *Social Background of Indian Nationalism*, Bombay.
- Heimsath, Charles, 1964, *Indian Nationalism and Hindu Social Reform*, Princeton
- Jain, M.S. , 1965, *The Aligarh Movement*, Agra.
- Jones, Kenneth W. , 1976, *Arya Dhaarm*, Berkeley.
- Jones, Kenneth W. , 1994, *Socio-Religious Reform Movements in British India*, The New Cambridge History of India, Cambridge University Press, New York.
- Leach and Mukherjee , 1992, *Elites in South Asia*, Cambridge.
- Majumdar, B.B. , 1957, *History of Indian Social and Political Ideas*, Delhi.
- Misra, B.B. , 1978, *The Indian Middle Class*, Delhi.
- Narain, V.A. , 1968, *Social History of Modern India*, Patna.
- Natrajan, Nalani , 2019, *Atlantic Gandhi*, Sage Bhasha Publication.
- Niranjana-Tejaswini, P. , 1972, *Interrogating Modernity: Culture and Society in India*, Delhi.
- O' Malley, L.S.S. , 1941, *Modern Indian and the West*, London.
- Pavloy, V.L. , 1991, *Indian Middle Class: Its Origin and Development*, OUP.
- Rai, Lala Lajpat , 1924, *A History of the Arya Samaj*, Lahore.
- Ranade, M.G. , 1930, *Religion and Social Reforms, Collection of Essays and Speeches*, Bombay.
- Rao, M.S.A. (ed.) , 1979, *Social Movements and Transformation*, Delhi
- Sarkar, S. , 1972, *Ram Mohan Roy and the Break with the Past*(ed) V.C. Joshi, Delhi.
- Sinha, P. , 1965, *Social Change in NK Singh (ed.) History of Bengal*, Calcutta.
- Smith, W.C. , 1943, *Modern Islam in India*, London.
- Srinivas, M.N. , 1998, *Social Change in Modern India*, Delhi.
- Sudhir & Vivek Dhareshwar, 1981, *Colonialism in India*, Delhi.
- Unnithan, T.K.N, Indra Deva Yogendra Singh (eds.) , 1990, *Towards a Sociology of Culture in India*, OUP.

Anil Kumar

P.N. Chopra

J.S. Ranade

N.K. Singh

M.A. History & Archaeology 4th Semester Group-D (Modern India) Course Code : MA/H&A/4/DSC24 Course: Economic History of India-II (C. 1757-1947 A.D.)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got basic knowledge about the foreign trade in colonial India with reference to Mercantilism, Industrial Capitalism and Finance Capitalism, Price Movements, Tarriff policy.	
CO2	Understand the Urban Markets and growth/decline of urban centres in colonial India, Industries and Industrial policy in colonial India.	
CO3	Understand the theory about the Drain of wealth , Banking System.	
CO4	Understand the environment, forests and the colonial state, labour and the trade union movement, consequences of colonial rule on Indian economy.	
UNIT-1		
Foreign trade: Mercantilism, Industrial capitalism, Finance capitalism, Price Movements, Tariff Policy		
UNIT-2		
Industrial and Market Growth: Markets and growth, Urban centres in colonial India, Industries Cotton textiles, Jute, iron and steel, Industrial policy in colonial India, Artisans and small-scale industry, especially handlooms		
UNIT-3		
Drainage and Taxation System: Theories about the Drain of wealth, Tax Structure, Public Expenditure, Government Revenues under the Crown, especially as per Act(s) of 1919 & 1935, Banking system		
UNIT-4		
Impact of British Rule: Environment and Forests Policy, Labour and the trade union movement Consequences of Colonial rule in India.		
Suggested Reading: <ul style="list-style-type: none"> • Bagchi, Amiya Kumar, 1972-1979, <i>Private investment in India 1900-1939</i>, New Delhi. • Bagchi, Amiya Kumar, 1989, <i>Presidency Banks and the Indian Economy 1876-1914</i>, Calcutta. • Bhaskar, Arvind, 2021, <i>Bharat Ka Swatantrta Sangram (Part-1&2)</i>, Kalam Publication • Bhattacharya, Dhires , 1989, <i>A Concise History of Indian Economy: From the Mid-</i> 		

Anil Kumar

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Eighteenth to the Present Century, New Delhi.

- Bhattacharya, Sabyasachi & Jan Lucassen, 2005, *Workers in the Informal Sector: Studies in Labour History*, New Delhi : Macmillan India.
- Bhattacharya, Sabyasachi , 1990, *Adhunik Bharat Ka Arthik Itihaas*, New Delhi and Patna : Rajkamal Prakashan.
- Chandvarkar, Rajnarayan , 1998, *Imperial Power and Popular Politics: Class, Resistance and the State in India, 1850-1950*, Cambridge University Press.
- Chaudhari, K.N. , 1983, *Foreign Trade and Balance of Payments (1757-1947)*, in Dharma Kumar (ed.) (1983), *Cambridge Economic History of India Volume II*.
- Davey, Brian , 1975, *The Economic Development of India Nottingham*, Spokesman Books.
- Gadgi, D.R., 1973, *The Industrial Evolution of India in recent Times, 1860-1939*, Delhi : Oxford University Press, Fifth ed..
- Habib, Irfan (Revised edn.) , 2006, *Indian Economy 1858-1914*, New Delhi.
- Mishra, Girish , 2004, *Adhunik Bharat Ka Arthik Itihaas*, New Delhi.
- Ray, Rajat K. , 1979, *Industrialization in India: Growth and Conflict in the Private Corporate Sector, 1914-47*, Delhi, Oxford University Press.
- Roy, Tirthankar , 2006, *The Economic History of India, 1857-1947*, Second Edition, New Delhi, Oxford University Press.
- Singh, V.B. (ed.) , 1975, *Economic History of India 1857-1956*, New Delhi.

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M.A. History & Archaeology 4th Semester Course Code : MA/H&A /E9/OEC7 Course: History of Indian Peninsula		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter:</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Critically analysis the evaluation of civilization in Southern India	
CO2	Understand the State structure in South and its evaluation	
CO3	Understand the conflicts between the Southern States and Sultanate and Mughal Powers.	
CO4	Analysis the Rise of Maratha and Tipu Sultan in Southern India	
UNIT-1 Pre Historic South India and Mauryan Expansion		
UNIT-2 Sangam Literature; Satavahanas : Polity and Socio–Economic condition		
UNIT-3 Delhi Sultanate and Regional Powers Expansion of Delhi Sultanate in South and its Impact; Vijay Nagar and Bahmani Kingdoms.		
UNIT-4 Mughals and Regional Powers: Southern states at the advent of Mughal invasion; Expansion of Mughal Empire		
Peninsula in 18th Century: Marathas and Mysore		
Suggested Reading: <ul style="list-style-type: none"> • Abraham, Meera, 1998, <i>Two Medieval Merchant Guilds of South India</i>, Delhi. • Begley, Vimala and Richard Daniel , 1992, <i>Rome and India: The Ancient Sea Trade</i>, Oxford Uni. Press, Delhi (reprint) • Champakalakshmi, R., 1996, <i>Trade, Ideology and Urbanization : South India (300 BC to AD 1300)</i>, Oxford Uni. Press, Delhi • Dubreuil, G.J. ,1979 <i>Ancient History of the Deccan</i>, Classical Pub., Delhi(reprint) • Gurukkal, Rajan, 2010, <i>Social Formations in Early South India</i>, Oxford Uni. Press, Delhi • Karashima, Naboru, 2001, <i>Towards a New Formation</i>, O.U.P., Delhi, 1992 • Majumdar, D. and Gopal Sharan, 1994, <i>Prag–Itihas (Pre-history)</i>, Hindi Madhyam Karyanvaya Nideshalaya, Uni. of Delhi(2nd edn.) 		

Anil Kumar

P.N. Singh

J.S. Singh

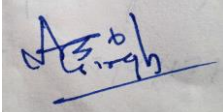
A.S. Singh

- Ramaswamy, Vijaya, 1997, *Walking Naked : Woman, Society, Spirituality in South India*, Indian Institute of Advanced Study, Shimla
- Sarkar, Jadunath, 1973, *Shivaji and His Times*, Oxford Uni. Press, Delhi
- Shastri, Ajay Mitra (ed.) , 1987, *Early History of the Deccan*, Problems and Perspectives, Sandeep Prakashan, New Delhi
- Shastri, K.A.N. *The Illustrated History of South India*, Oxford Uni. Press, Delhi (also in Hindi)
- Srimali, K.M. and D.N. Jha (ed.) , 2006, *Prachin Bharat*, Hindi Madhyam Karyanvay Nideshalaya, Uni. of Delhi (reprint)
- Stein, Burton, 1989, *The New Cambridge History of India: Vijay Nagar*, Cambridge Uni. Press
- Stein, Burton, 1999, *Peasant, State and Society in Medieval South India*, Oxford Uni. Press, Delhi
- Subrahmanyam, Sanjay, 2004, *The Policial Economy of Commerce South India (1500A.D. – 1650A.D.)*, Cambridge Uni. Press, Delhi
- Verma, H.C.(ed.) , 1998, *Madhyakaleen Bharat, Vol. I & II*, Hindi Madhyam kiryanvaya Nideshalaya, Uni. of Delhi
- Yazdani, G.(ed.) , 1960, *Early History the Deccan, Vol. I & II*, London

M.A. History & Archaeology 4th Semester
Course Code : MA/H&A /E9/OEC8
Course: The Great Revolt of 1857

Total Credits: 4
Time: 3 Hrs.
Marks: 100
External: 70
Internal: 30

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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Acquainted with problems of sources for writing histories of the revolt, particularly the excessive reliance on the colonial archive due to its relative profusion.
CO2	Familiar with character of the colonial state in the nineteenth century, with its recourse to the use of violence to establish its authority.
CO3	Grasp the different ways in which individuals and social groups perceived colonial authority, articulated grievances, opposed or sided with the state or its organs, and the options available to empire for exercising power.
CO4	Make sense of the processes whereby resistance and collaboration shaped colonialism during the second and third quarters of the nineteenth century.

UNIT-1

Colonial Historiography on the revolt and its impact on History Writing; Case studies: Meerut-Delhi; Kanpur; Jhansi-Gwalior, Ambala-Rewari-Vallabhgarh.

UNIT-2

Reponses of: i) the intelligentsia; ii) peasants; iii) landed elites; **Role of the Sipahis** ('sepoys'); Reasons for Disaffection of Mutiny.

UNIT-3

Pan-Indian character of the revolt: Panjab; South India; Eastern and North-Eastern India.

UNIT-4

Survey of Recent Trends in Mutiny Historiography, since c.2007; 'The 1857 a pictorial persentation.

Suggested Reading:

- Buckler, F.W. (1985), *The Political Theory of the Indian Mutiny*, reprinted in M.N. Pearson, (Ed)., *Legitimacy and Symbols: The South Asian Writings of F.W. Buckler*, Michigan: Centre for South and Southeast Asian Studies.
- Chakravarty, Gautam (2004), *The Indian Mutiny and British Imagination*, Cambridge,; Cambridge University Press.
- Chaudhuri, S.B. (1957), *Civil Rebellion in the Indian Mutinies*, Calcutta: World Press.
- Dewar, Douglas, H. L. Garrett and F. W. Buckler (1924), *The Political Theory of the Indian Mutiny: A Reply and with a Rejoinder*' Transactions of the Royal Historical Society, London: Royal Historical Society, pp. 131-165.
- Guha, Ranajit (1983), *Elementary Aspects of Peasant Insurgency* Delhi: Oxford University Press.
- Hawkins, Angus (1984), *British Parliamentary Party Alignment and the Indian Issue, 1857- 1858*' Journal of British Studies , Volume 3, Number 2, pp. 79-105.
- Kaye, J.W. (1988), *History of the Sepoy War*, Volume: 2, Delhi..

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A.S. Singh

- Metcalfe, T.R. (1964), *The Aftermath of Revolt: India 1857-70*, Princeton: Princeton University Press. Pramod K. Nayar, Pramod K. (Ed.) (2007), *The Trial of Bahadur Shah Zafar*, Hyderabad: Orient Longman, (trial proceedings).
- Savarkar, V.D. (1960), *The Indian War of Independence*, Bombay: Dhawale-Popular.
- Tope, Parag (2010), *Tatya Tope's Operation Red Lotus*, Delhi: Rupa and Co.

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CHAUDHARY DEVI LAL UNIVERSITY, SIRSA
M.A. (POLITICAL SCIENCE)
(2-YEAR COURSE)

Scheme of Examination and Syllabus

(As per Choice Based Credit System w.e.f. the academic year 2017-2018 in phased manner)
 The entire degree/programme of M.A. (Political Science) will be of Two years consisting of Four semesters.

The scheme of Examination and Syllabus is as under:-
 M.A. 1st SEMESTER

Core Course(s)									
Course Code	Nomenclature		Hrs./Credit per Week	Marks			Exam. Hrs.	Credits	
				Int. Assess./Evaluation	End Term Exam.	Total			
POL-C-211	Western Political Thought	core	4	30	70	100	3Hrs.	4	
POL-C-212	Indian Government and Politics-I	core	4	30	70	100	3Hrs.	4	
POL-C-213	International Relations-Theory	core	4	30	70	100	3Hrs.	4	
POL-C-214	Public Administration-I	core	4	30	70	100	3Hrs.	4	
POL-E-211	Research Methodology-I	Elective Choose any two of them	4+4	30	70	100	3Hrs.	4	
POL-E-212	Modern Indian Political Thought			30	70	100	3Hrs.	4	
POL-E-213	Political Geography			30	70	100	3Hrs.	4	
POL-E-214	Political Leadership-Special Reference to India			30	70	100	3Hrs.	4	
Open Elective Course (For the students of other departments/subjects)									
Course Code	Course Title		Hrs./Credit per Week	Marks			Exam. Hrs.	Credits	
				Int. Assess./Evaluation	End Term Exam.	Total			
POL-0E-01	Indian Polity	Open (E)	4	30	70	100	3Hrs.	4	

M.A. 2nd SEMESTER

Core Course(s)								
Course Code	Nomenclature		Hrs./Credit per Week	Marks			Exam. Hrs.	Credits
				Int. Assess./ Evaluation	End Term Exam.	Total		
POL-C-221	Indian Government and Politics-II	core	4	30	70	100	3Hrs.	4
POL-C-222	International Relations-Issues	core	4	30	70	100	3Hrs.	4
POL-C-223	Public Administration-II	core	4	30	70	100	3Hrs.	4
POL-E-221	Indian Political Thought	Elective	4+4	30	70	100	3Hrs.	4
POL-E-222	Research Methodology-II			30	70	100	3Hrs.	4
POL-E-223	Media and Politics			30	70	100	3Hrs.	4
POL-E-224	Geo-Politics and World Affairs			Choose any two of them	30	70	100	3Hrs.
Open Elective Course (For the students of other departments/subjects)								
Course Code	Course Title		Hrs./Credit per Week	Marks			Exam. Hrs.	Credits
				Int. Assess./ Evaluation	End Term Exam.	Total		
POL-0E-02	India and World	Open (E)	4	30	70	100	3Hrs.	4

M.A. 3rd SEMESTER

Core Course(s)								
Course Code	Nomenclature		Hrs./Credit per Week	Marks			Exam. Hrs.	Credits
				Int. Assess./ Evaluation	End Term Exam.	Total		
POL-C-231	Political Theory-I	core	4	30	70	100	3Hrs.	4
POL-C-232	Comparative Politics-I	core	4	30	70	100	3Hrs.	4
POL-C-233	International Law-I	core	4	30	70	100	3Hrs.	4
POL-C-234	International Organization and Global Order Studies-I	core	4	30	70	100	3Hrs.	4
POL-E-231	India's Foreign Policy & Relations-I	Elective Choose any two of them	8	30	70	100	3Hrs.	4
POL-E-232	Women Studies Some Contemporary Issues			30	70	100	3Hrs.	4
POL-E-233	Political Sociology: The Indian Context			30	70	100	3Hrs.	4
POL-E-234	Human Rights in India			30	70	100	3Hrs.	4
Open Elective Course (For the students of other departments/subjects)								
Course Code	Course Title		Hrs./Credit per Week	Marks			Exam. Hrs.	Credits
				Int.Assess./ Evaluation	End Term Exam.	Total		
POL-OE-03	Indian Constitution and Administration	Open (E)	4	30	70	100	3Hrs.	4

M.A. 4th SEMESTER

Core Course(s)								
Course Code	Nomenclature		Hrs./Credit per Week	Marks			Exam. Hrs.	Credits
				Int. Assess./ Evaluation	End Term Exam.	Total		
POL-C-241	Political Theory-II	core	4	30	70	100	3Hrs.	4
POL-C-242	Comparative Politics-II	core	4	30	70	100	3Hrs.	4
POL-C-243	International Law-II	core	4	30	70	100	3Hrs.	4
POL-C-244	International Organization and Global Order Studies-II	core	8	30	70	100	3Hrs.	4
POL-E-241	India's Foreign Policy & Relations-II	Choose any two of them		30	70	100	3Hrs.	4
POL-E-242	Human Rights in International Relations			30	70	100	3Hrs.	4
POL-E-243	Civil Services in India			30	70	100	3Hrs.	4
POL-E-244	Women and Law			30	70	100	3Hrs.	4
Open Elective Course (For the students of other departments/subjects)								
Course Code	Course Title		Hrs./Credit per Week	Marks			Exam. Hrs.	Credits
				Int.Assess./ Evaluation	End Term Exam.	Total		
POL-0E-04	Democracy in India	Open (E)	4	30	70	100	3Hrs.	4

Total credit of open elective (OE) courses should be at least 10 per cent of the total credits earned by a student in a Programme.

Syllabus and Courses of Reading
POL-C-211 Western Political Thought

Max.Marks : 100
End Term Exam :70
Internal Assessment/Evaluation : 30
Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I

Plato, Aristotle, Machiaveili.

Unit-II

Hobbes, Locke, Rousseau.

Unit-III

Bentham, J.S. Mill.

Unit-IV

Hegel, Marx, T.H. Green

Suggested Readings

Sir E. Barker, *The Political Thought of Plato and Aristotle*, New York, Dover Publications, 1959.

Sir E. Barker, *Greek Political Theory: Plato and His Predecessors*, New Delhi, B.I. Publications, 1964.

Sir E. Barker, *The Politics of Aristotle*, (Translated with Introduction, Notes and Appendix), Oxford, Oxford University Press, 1995.

R.N. Berki, *The History of Political Thought: A Short Introduction*, London, Dent., 1977.

J.H. Burns (ed.), *The Cambridge History of Political Thought, 1450-1700*, Cambridge, Cambridge University Press, 1991.

H. Butterfield, *The Statecraft of Machiavelli*, New York, Collier, 1962.

A. Cobban, *Rousseau and the Modern State*, London, Unwin University Books, 1964.

J. Coleman, *A History of Political Thought: From Ancient Greece to Early Christianity*, London, Blackwell, 2000.

W.L. Davidson, *Political Thought in England: The Utilitarians from Bentham, to Mill*, Oxford, Oxford University Press, 1957.

M.B. Foster, W.T. Jones and L.W. Lancaster, *Masters of Political Thought*, 3 Vols., London, George G. Harrap and Co. Ltd., 1959.

R.G. Gettel, *History of Political Thought*, New York, Novell. & Co., 1924.

I.W. Hampsher-Monk, *Modern Political Thought from Hobbes to Marx*. Oxford, Basil Blackwell, 1992.

H.J. Laski, *Political Thought from Locke to Bentham*, Oxford, Oxford University Press, 1920.

S. Mukerjee and S. Ramaswamy, *A History of Political Thought: Plato to Marx*, New Delhi, Prentice Hall, 1999.

G.H. Sabine, *History of Political Theory*, 4th edn., Revised by T.L. Thorson, New Delhi, Oxford and IBH, 1973.

Shefali Jha, *Western Political Thought*, Pearson, New Delhi, 2012.

Bhargava and Acharya, *Political Theory: An Introduction*, Pearson, New Delhi, 2012.

Bhargava and Acharya/Choubey, *Rajniti Siddhant: Ek Parichay*, Pearson, New Delhi, 2012.

Kynlicka/Choubey, *Samkaleen Rajniti-Darshan: Ek Parichay*, Pearson, New Delhi, 2012.

Abbas, *Political Theory*, Pearson, New Delhi, 2012.

POL-C-212 Indian Government and Politics-I

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I

Historical Background of constituent Assembly, Fundamental Rights & Duties, Directive Principles of State Policy, Constitutional Amendments.

Unit-II

Union and State Government- President, Prime Minister, Cabinet and Council of Ministers.

State- Governor, Chief Minister.

Union Parliament and State Vidhan Sabha. Local Government- Rural and Urban.

Unit-III

Judiciary- Supreme Court and the High Courts.

Judicial Review, Judicial Activism including Public Interest Litigation Cases, Judicial Reforms.

Unit-IV

Indian Federalism- Theory and Practice.

Demands for State Autonomy and Separatist Movements.

Political and Social Dimensions- Political Elites, Civil Society and Secularism.

Suggested Readings

G. Austin, *The Indian Constitution: Corner Stone of a Nation*, Oxford, Oxford University Press, 1966.

P. Bardhan, *The Political Economy of Development in India*, London, Oxford, Blackwell, 1984.

D.D.Basu, *An Introduction to the Constitution of India*, New Delhi, Prentice Hall,1994.

C.P. Bhambri, *The Indian State: Fifty Years*, New Delhi, Shipra, 1999.

K.R. Bombwall, *The Foundations of Indian Federalism*, Bombay, Asia PublishingHouse, 1967.

P.R. Brass, *Politics of India Since Independence*, 2nd edn., Cambridge, CambridgeUniversity Press, 1994.

N. Chandhoke, *Beyond Secularism: The Rights of Religious Minorities*, Delhi, Oxford University Press, 1999.

B.L. Fadia, *State Politics in India*, 2 Vols., New Delhi, Radiant, 1984.

A.Kaushik, *Democratic Concerns: The Indian Experience*, Jaipur, Alekh, 1994.

S.Kaviraj, *Politics in India, Delhi*, Oxford University Press, 1998.

A.Kohli (ed.), *India's Democracy: An Analysis of Changing State-Society Relations*, Princeton NJ, Princeton University Press, 1988.

A.Kohli, (ed), *The Success of India's Democracy*, Cambridge, Cambridge University Press, 2001.

R.Kothari, *Caste and Politics in India*, New Delhi, Orient Longman, 1970.

R. Kothari, *Politics in India*, New Delhi, Orient Longman, 1970.

W.H. Morris Jones, *Government and Politics in India*, Delhi, BI Publications, 1974.

M.V. Pylee, *An Introduction to the Constitution of India*, New Delhi, Vikas, 1998.

Abbas, *Indian Government and Politics*, Pearson, New Delhi, 2012.

Neera Chandoke, *Contemporary India*, Pearson, New Delhi, 2012.

Pravin Kumar Jha, *Indian Politics in Comparative Perspective*, Pearson, New Delhi,2012.

Pravin Kumar Jha, *Tulnatamak Paripekchay Mein Bhartiya Rajniti*, Pearson, New Delhi,2012

POL-C-213 International Relations-Theory

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I

Nature, Scope and Development of International Relations, Autonomy Debate.

Types of International Systems.

Concept of Power- Tangible and Intangible Elements, limitation of Power.

Unit-II

Theories of International Relations-Realist, Neo-Realist/Idealist,/Neo-Idealist, System.

Marxist, Game Theory, World System.

Unit-III

Balance of Power, Collective Security and Deterrence Doctrine.

Disarmament Theories & History.

WTO and Trade Strategies.

Unit-IV

Foreign Policy-Nature, Types, Decision Making and Bargaining Theory.

Determinants: External and Internal.

Instruments- Ideology, National Interest, Diplomacy.

Suggested Readings

John, Baylis and Steve Smith, *Globalization of World Politics*, Oxford, London, 1997.

P.Allan and K. Goldman (eds.), *The End of the Cold War*, Dordrecht, Martinus Nijhoff, 1992.

D.G. Brennan (ed.), *Arms Control, Disarmament and National Security*, New York, George Braziller, 1961.

S. Burchill et. al., *Theories of International Relations*, Hamsphire, Macmillan, 2001.

I.Claude, *Power and International Relations*, New York, Random House, 1962.

A.A. Coulombis and J.H. Wolf, *Introduction to International Relations: Power and Justice*, New York, Praegar, 1989.

W. Epstein, *The Last Chance: Nuclear Proliferation and Arms Control*, New York, The Free Press, 1976.

K.W. Deutsch, *The Analysis of International Relations*, New Delhi, Prentice Hall, 1989.

P.Gilbert, *Terrorism Security and Nationality*, London and New York, Routledge, 1995.

A.J.R. Groom and M. Lights (eds.), *Contemporary International Relations: A Guide to Theory*, London, Printer, 1993.

F. Halliday, *Revolution and World Politics: The Rise and Fall of the Sixth Great Power*, Basingstoke, Macmillan, 1999.

F. Halliday, *Rethinking International Relations*, Basingstoke, Macmillan, 1994.

R.O. Keohane (ed.), *Neo-realism and Its Critics*, New York, Columbia University Press, 1986.

H.J. Morgenthau, *Politics Among Nations*, 6th Edition, revised by K.W., Thompson, New York, Alfred Knopf, 1985.

M.S. Rajan, *Non-Alignment and the Non-Alignment Movement in the Present World Order*, Delhi, Konark, 1994.

J.N. Rosenau and K. Knorr (eds.), *Contending Approaches to International Politics*, Princeton NJ, Princeton University Press, 1969.

M.P. Sullivan, *Theories of International Politics: Enduring Paradigm in a Changing World*, Hamsphire, Macmillan, 2001.

S.P. Verma, *International System and the Thlrd World*, New Delhi, Vikas, 1988.

Ajay Kumar, *Antarrashtriya Sambandhon Ke Siddhanti*, Pearson, New Delhi, 2012.

Chinni et al, *International Relations*, Pearson, New Delhi, 2012.

Sanju Gupta, *An Introduction to International Relations*, Pearson, New Delhi, 2012.

POL-C-214 Public Administration-I

Max.Marks : 100

End Term Exam : 70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I

Meaning, Nature and Scope of Public Administration.

Public and Private Administration.

Development of Public Administration as a Discipline; New Public Administration.

Unit-II

Approaches to the Study of Public Administration. Decision Making, Development Administration and Political Economy

Theories of Organization: Classical, Scientific, Human Relations.

Unit-III

Principles of Organization- Line and Staff, Unity of Command, Hierarchy, Span of Control, Centralization and Decentralization.

Types of Organization -Formal and Informal

Forms of Organization: Department, Public Corporation and Board.

Unit-IV

Chief Executive: Types, Functions and Roles.

Control Over Administration- Judicial and Legislative.

Impact of Liberalization and Information Technology on Public Administration.

Suggested Readings

J.E. Anderson, *Public Policy Making*, Boston, Houghton, Mifflin, 1990

P.H., Appleby, *Public Administration for a Welfare State*, Bombay, Asia Publishing House, 1961.

A. Avasthi and S.N. Maheshwari, *Public Administration*, Agra, Laxmi N. Aggarwal, 1996.

P.R. Dubashi, *Recent Trends in Public Administration*, Delhi, Kaveri Books, 1995.

E.N. Gladden, *The Essential of Public Administration*, London, Staples Press, 1958.

J. La Palombara and M. Weiner (eds.), *Bureaucracy and Political Development*, Princeton NJ, Princeton University Press, 1966.

S.R. Maheshwari, *Administrative Theories*, New Delhi, Allied, 1994.

F.A. Nigro and L.S. Nigro, *Modern Public Administration*, New York, Harper and Row, 1984.

L. Peters, "Downsizing the Civil Service in Developing Countries: Golden Handshake or Smiling Farewells?" *Public Administration and Development*, 18(4), Oct. 1998, pp. 381-86.

D.C. Pitt, and B.C. Smith (eds.), *The Computer Revolution: The Impact of Information Technology on Government* Brighton, Wheatsheaf Books, 1984.

R. Presthus, *Public Administration*, New York, Ronald, 1975.

D. Waldo (ed.), *Ideas and Issues in Public Administration: A Book of Readings*, New York, McGraw Hill, 1953.

Hoshiar Singh and Pradeep Sachdeva, *Public Administration*, Pearson, New Delhi, 2012.

Hoshiar Singh and Pradeep Sachdeva, *Lok Prashasan*, Pearson, New Delhi, 2012.

POL-E-211 Research Methodology-I

Max.Marks : 100

End Term Exam : 70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I Social Research- Its Nature and Types.

Traditional Approaches- Philosophical, Institutional, Marxian and Gandhian. Behavioural Revolution in Political Science and its Criticism.

Post-Behaviouralism

Unit-II Models, Paradigms and Theories- Conceptual and Theoretical Models.

Meaning and Types of Paradigms. Theory-Meaning, Goals and Types.

Construction of a Theory and Relationship Between Theory and Research.

Unit-III Scientific Method-Basic Assumptions, Steps and Limitation. Scientific Study of Political Science.

Historical Method, Comparative Method, Analytical Method and Psycho- Analysis.

Unit-IV The Building Blocks of Social Scientific Research-Hypotheses, Concepts and Variables, Generalization and Law.

Suggested Readings

H.N. Blalock, *An Introduction to Social Research*, Englewood Cliffs NJ, Prentice Hall, 1970.

J. Blondel, *Thinking Politically*, London, Wildwood House, 1976.

A. Bryman, *Quantity and Quality in Social Research*, London, Unwin Hyman, 1988

A.F. Chalmers, *Science and Its Fabrication*, Milton Keynes, Open University Press, 1990.

J. Galtung, *Theory and Methods of Social Research*, New York, Columbia University Press, 1987.

A.Giddens, *Profiles and Critiques in Social Theory*, London Macmillan, 1982.

W.J. Goode and P.K. Hatt, *Methods of Social Research*, New York, McGraw Hill, 1952.

A.C. Isaak, *Scope and Methods of Political Science*, Homewood Illinois, Dorsey Press, 1985.

J.B. Johnson and R.A. Joslyn, *Political Science Research Methods*, Washington DC, C.Q. Press, 1986.

F.N. Kerlinger, *Behavioural Research*, New York, Holt, Rinehart and Winston, 1979.

T.Kuhn, *The Structure of Scientific Revolution*, Chicago, University of Chicago Press, 1970.

R. K. Merton (ed.), *Social Theory and Social Structure*, New York, The Free Press, 1957.

D. Miller (ed.), *Pocket Popper*, London, Fontana, 1997.

Sir, K.R. Popper, *The Logic of Scientific Discovery*, London, Hutchinson, 1959.

Sir, K. R. Popper, *Conjectures and Refutations: The Growth of Scientific Knowledge*, London, Routledge and Kegan Paul, 1963.

Sir, K.R. Popper, *The Poverty of Historicism*, London, Reoutledge, 1991.

P.V. Young, *Scientific Social Surveys and Research*.

Robert A. Dahl, *Modern Political Analysis*, Englewood Cliffs, NJ Prentice Hall, 1963.

POL-E-212 Modern Indian Political Thought

Max.Marks : 100

End Term Exam : 70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

UNIT-I Arvindo Ghosh, Rabindra Nath Tagore.

UNIT-II Lala Lajpat Rai, Sardar Patel, Bhagat Singh

UNIT-III Dadabhai Naoroji; MG Ranade, Jyoti Ba Phule

UNIT-IV Subhash Chander Bose, J. P. Narayan, Ram Manohar Lohia

Suggested Readings

A.Appadorai, Indian Political Thinking Through the Ages, Delhi Khanna Publishers, 1992.

J. Bandhopahdyaya, Social and Political Thought of Gandhi, Bombay, Allied, 1969.

R.J. Cashman, The Myth of 'Lokmanya' Tilak and Mass Politics in Maharashtra, Berkeley, University of California Press, 1975.

Chandra, Nationalism and Colonialism in Modern India, Delhi, Vikas, 1979.

K.Damodaran, Indian Thought : A Critical Survey, London, Asia Publishing House, 1967.

D.G. Dalton, India's Idea of Freedom : Political Thought of Swami Vivekananda, Aurobindo Ghose, Mahatma Gandhi and Rabindranath Tagore, Delhi, Academic Press, 1982.

S. Ghose, The Renaissance to Militant Nationalism, Bombay, Allied Publishers, 1969.

S.Ghose, Socialism, Democracy and Nationalism in India, Bombay, Allied Publishers, 1973.

S. Ghose, Modern Indian Political Thought, Delhi, Allied, 1984.

U.N. Ghoshal, A History of Indian Political Ideas, London, Oxford University Press, 1959.

J.P. Haitheox, Communism and Nationalism in India : M.N. Roy and Comintern Policy, Princeton NJ, Princeton University Press, 1971.

Heimsath, Indian Nationalism and Social Reform, Princeton NJ, Princeton University Press, 1964.

R. Iyer, The Moral and Political Thought of Mahatma Gandhi, Delhi, Oxford University Press, 1973.

K.N. Kadam (ed.), Dr. B.R. Ambedkar, New Delhi, Sage, 1992.

K.P. Karunakaran, Modern Indian Political Tradition, New Delhi, Allied Publishers, 1962.

K.P. Karunakaran, Indian Politics from Dababhai Naoroji to Gandhi : A Study of Political Ideas of Modern India, New Delhi, Gitanjali, 1975.

V.R.Mehta, Foundations of Indian Political Thought, New Delhi, Manohar, 1992.

V.S. Narvane, Modern Indian Thought, New Delhi, Orient Longman, 1978.

D.P. Roy, Leftist Politics in India : M. N. Roy and the Radical Democratic Party, Calcutta, Minerva, 1989.

V.P. Verma, Modern Indian Political Thought, Agra, Lakshmi Narain Aggarwal, 1974

POL-E-213 Political Geography

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I History & Development, Nature and Scope of Political Geography.

Relation with other Social Sciences.

Geopolitical and Geostrategic Structure of the World. International and Regional Dimension.

Unit-II Models of World Structure and their Relevance.

Boundary Studies-Type, Importance and Legal Status, Boundaries as Barriers- Case Studies.

Unit-III Global Strategic Views-Mahan; Mackinder; Spykman, Hooson.

Global Strategy in Air and Ocean Age.

Unit-IV Approaches- Traditional, Functional and Generic

Unified field Theory.

Clash of Civilizations- Huntington's Scheme of World Divisions.

Suggested Readings

Charles C. Colby, ed., *Geographic Aspects of International Relations*.

J.P. Cole, *Geography and World Affairs*.

W. Gordon East and A.E. Moodie, eds., *The Changing World: Studies in Political Geography*.

Pascal Girot and Eleonore Kofman, eds., *International Geopolitical Analysis*

C.S. Gray, *The Geopolitics of the Nuclear Era: Heartland, Rimland and the Technological Revolution*.

W.A. ZDouglass Jackson, *Politics and Geographic Relationships*.

R. Paddison, *The Fragmented State: The Political Geography of Power*.

W.H. Parker, Mackiner: *Geography as an Aid to Statecraft*.

J.R.V. Prescott, *Political Geography of the Oceans*.

B.M. Russett, *International Regions and International System*.

R. Strausz-Hupe, *Geopolitics*.

B.L. Sukhwal, *Modern Political Geography*, Sterling Publishers, New Delhi, 1968.

Teter Taylor, *Political Geography*, Longmen, London, 1985.

Charies A. Fisher, *Essays in Political Geography*, Methuen, London, 1968.

N.J. G. Pounds, *Political Geography*, McGraw Hill, New York, 1972.

A.E. Moddie, *Geography Behind Politics*, Hutchnison, London, Latest Edition.

J.R.V. Prescott, *The Geography of Frontiers and Boundaries Aldine*, Chicago.

R.D. Dikshit, *Political Geography: A Contemporary Perspective*, Tata McGraw Hill, New Delhi, 1996.

R.D. Dikshit, *Political Geography: A Century of Process*, Sage, New Delhi, 1999.

POL-E-214 Political Leadership-Special Reference to India

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I Study of Political Leadership-A Comparativist Perspective: Classical and Elite Views.

Psychological, Sociological and Political Approaches.

Leadership- Types, Roles, Style, Personality Traits, Functions, Performance.

Unit-II Issues and Problems of Recruitment and Situational Factors.

Issues and Problems of Socialization and Socialization Factors.

Unit-III Typologies of Power and Decision-Making, and Executive Authority.

Unit-IV Political Leadership and Nation-Building in India: Local, Regional and National Levels.

Suggested Readings

S.P. Aiyar and R. Srinivasan, eds., *Studies in Indian Democracy*.

Yogesh Atal, *Building a Nation: Essays on India*.

Marie C. Carras, *Indira Gandhi in the Crucible of Leadership*.

Sudipta Kaviraj, "Indira Gandhi and Indian Politics", *Economic and Political Weekly*, September 20-27, 1986.

W.H. Morris-Jones, ed., *The Making of Politicians: Studies from Africa and Asia*.

W.H. Morris-Jones, *Politics: Mainly Indian*.

Iqbal Narain, et al., *Political Elite in an Indian State*.

R.L. Park and I. Tinker, eds., *Leadership and Political Institutions in India*.

G. Ram Reddy and K. Seshadri, "Studies of Leadership", in ICSSR, *Survey of Research in Political Science*, Vol. I.

Arun Shourie, *Symptoms of Fascism*.

V.M. Sirsikar, "Political Leadership in India", *Economic Weekly*, March 20-27, 1965.

Janardan Thakur, *Indira Gandhi and Her Power Game*.

E. Victor Wolfenstein, *Personality and Politics*.

POL-OE-01 INDIAN POLITY

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I Constitutional Foundations: Basic Features of the Indian Constitution, Preamble, Fundamental Rights, Directive Principles of State Policy.

Unit-II Union Executive and Legislature: President, Prime Minister, Council of Ministers, Parliament.

Unit –III State Executive and Legislature: Governor, Chief Minister, State Legislature.

Unit- IV Judiciary: Supreme Court, High Courts, Judicial Review, judicial Activism.

Suggested Readings

- G. Austin The Indian Constitution Cornerstone of a Nation, OLIP , Oxford, 1966
- S. Kaviraj Politics in India, OUP, Delhi, 1998
- A. Kholi, (ed.) The Success of India's Democracy, Cambridge University Press, Cambridge, 2001
- R. Kothari Politics in India, Orient Longman, New Delhi, 1970
- WH Morris Jones Government and Politics in India, BI Publications, Delhi, 1974
- Neera Chandoke Contemporary India,Pearson, New Delhi, 2012
- PR Brass Politics of India since Independence, Cambridge University Press, Cambridge, 1994.
- M V Pylee An Introduction to the Constitution of India, Vikas Publications, New Delhi, 1998
- B. Chakrabarty & Indian Government and Politics, Sage, New Delhi, 2008. R K Pandey
- MP Singh & Indian Politics: Constitutional Foundations and Institutional Functioning, PHI, New Delhi, 2011.
- R. Saxena

Semester-2nd

POL-C-221 Indian Government and Politics-II

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I

Historical Dimensions of Political Culture.
Dominant Values and Traditions. Political Legacies.
Social Composition and Sociological Foundations.

Unit-II

Party System in India, National and Regional Parties.
Interest and Pressure Groups, Politics of Defections and Anti-Defection Law. Coalition Politics-
Bases, Nature and Impact on Indian Polity.

Unit-III

Political Economy Dimensions-Politics of Economic Development, Planning.
Elections and Electoral Behavior-Election Commission and
Electoral Reforms, Role of Media and Public Opinion. Politics of Violence.

Unit-IV

Impact of Caste, Religion, Regionalism; Language.
Weaker Sections -SC, ST and OBC and Gender Issues. Problems of Nation Building and
Integration.
Emerging Trends in Indian Polity.

Suggested Readings :

- B. Arora and D.V. Verney (eds.), *Multiple Identities in a Single State: Indian Federalism in a Comparative Perspective*, Delhi, Konark, 1995.
- T.R. Andhyarujina, *Judicial Activism and Constitutional Democracy in India*, Bombay, N. M. Tripathi, 1992.
- G. Austin, *Working on Democratic Constitution: The Indian Experience*, Delhi, Oxford University Press, 2000.
- D.D. Basu, *An Introduction to the Constitution of India*, New Delhi, Prentice Hall, 1994.
- U. Baxi and B. Parekh (ed.), *Crisis and Change in Contemporary India*, New Delhi, Sage, 1994.
- C.P. Bhambri, *The Indian State: Fifty Years*, New Delhi, Shipra, 1999.
- P.R. Brass, *Politics of India Since Independence*, 2nd edn., Cambridge, Cambridge University Press, 1994.
- P.R. Brass, *Language, Religion and Politics in North India*, London, Cambridge University Press, 1974.
- N. Chandhoke, *Beyond Secularism: The Rights of Religious Minorities*, Delhi, Oxford University Press, 1999.
- F.R. Frankel, and et al. (eds.), *Transforming India: Social and Political Dynamics of Democracy*, New Delhi, Oxford University Press, 2000.
- N.G. Jayal (ed.), *Democracy in India*, Delhi, Oxford University Press, 2001.
- A. Kaushik, *Democratic Concerns: The Indian Experience*, Jaipur, Alekh, 1994.
- S. Kaviraj, *Politics in India, Delhi*, Oxford University Press, 1998.
- A. Kohli, (ed), *The Success of India's Democracy*, Cambridge, Cambridge University Press, 2001.
- R. Kothari, (ed.), *State and Nation Building*, Bombay, Allied Publishers, 1976.
- R. Kothari, *Caste and Politics in India*, New Delhi, Orient Longman, 1970.
- R. Kothari, *Politics in India*, New Delhi, Orient Longman, 1970.
- R. Kothari, *Party System and Election Studies*, Bombay, Asia Publishing House, 1967.
- A. Kumar (ed.), *Nation-Building in India: Culture, Power and Society*, New Delhi, Radiant Publishers, 1999.
- W.H. Morris Jones, *Government and Politics in India*, Delhi, BI Publications, 1974.
- A.G. Noorani, *Constitutional Questions in India: The President, Parliament and the States*, Delhi, Oxford University Press, 2000.
- M.V. Pylee, *Constitutional Government in India*, Bombay, Asia Publishing House, 1977.
- M.V. Pylee, *An Introduction to the Constitution of India*, New Delhi, Vikas, 1998.
- M.P. Singh and H. Roy (ed.), *Indian Political System: Structure, Policies, Development*, New Delhi, Jnanada Prakashan, 1995.
- R. Thakur, *The Government & Politics of India*, London, Macmillan, 1995.
- P. Wallace (ed.), *Region and Nation in India*, Delhi, Oxford University Press, 1985.
- M. Weiner, *The Indian Paradox: Essays in Indian Politics*, New Delhi, Sage, 1999.
- Abbas, *Indian Government and Politics*, Pearson, New Delhi, 2012.
- Neera Chandoke, *Contemporary India*, Pearson, New Delhi, 2012.
- Pravin Kumar Jha, *Indian Politics in Comparative Perspective*, Pearson, New Delhi, 2012.
- Pravin Kumar Jha, *Tulnatamak Paripekchay Mein Bhartiya Rajniti*, Pearson, New Delhi, 2012



POL-C-222 International Relations-Issues

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I

Global Order-Cold War, Détente, End of Cold War, Theories of Globalization.

Unit-II

Environment Politics and Conferences, Issues and Challenges; Human Rights. Concept, Sources and Problems.

Gender Issues- Theories, Conferences, Impact of Globalization.

Unit-III

Nation and Nationalism – Debates and Issues,

International Terrorism.

Imperialism and Politics of MNCs.

Unit-IV

Regionalism & Integration.

Regional Organizations -EU, ASEAN, SAARC. New International Economic Order-

Non Aligned Movement.-Bases, Growth and Relevance

Suggested Readings :

John, Baylis and Steve Smith, *Globalization of World Politics*, Oxford, London, 1997.

P.Allan and K. Goldman (eds.), *The End of the Cold War*, Dordrecht, Martinus Nijhoff, 1992.

S. Burchill et. al., *Theories of International Relations*, Hamsphire, Macmillan, 2001.

A.A. Couloumbis and J.H. Wolf, *Introduction to International Relations: Power and Justice*, New York, Praegar, 1989.

K.W. Deutsch, *The Analysis of International Relations*, New Delhi, Prentice Hall, 1989.

A.J.R. Groom and M. Lights (eds.), *Contemporary International Relations: A Guide to Theory*, London, Printer, 1993.

F. Halliday, *Revolution and World Politics: The Rise and Fall of the Sixth Great Power*, Basingstoke, Macmillan, 1999.

F. Halliday, *Rethinking International Relations*, Basingstoke, Macmillan, 1994.

S.H. Hoffman, *Essays in Theory and Politics of International Relations*, Boulder Colorado, Westview Press, 1989.

R.O. Keohane (ed.), *Neo-realism and Its Critics*, New York, Columbia University Press, 1986.

H.J. Morgenthau, *Politics Among Nations*, 6th Edition, revised by K.W., Thompson, New York, Alfred Knopf, 1985.

M.S. Rajan, *Non-Alignment and the Non-Alignment Movement in the Present World Order*, Delhi, Konark, 1994.

J.N. Rosenau and K. Knorr (eds.), *Contending Approaches to International Politics*, Princeton NJ, Princeton University Press, 1969.

A.P. Schmidt and A.J. Jongman (eds.), *Political Terrorism: A New Guide to Actors, Authors, Concepts, Data Bases, Theories and Literature*, 2nd edn., Amsterdam, North Holland Publishing Co., 1988.

M.P. Sullivan, *Theories of International Politics: Enduring Paradigm in a Changing World*, Hamsphire, Macmillan, 2001.

S.P. Verma, *International System and the Third World*, New Delhi, Vikas, 1988.

G. Williams, *Third World Political Organizations*, London, Macmillan, 1987.

Mahadev Kumar, *Antarrashtriya Rajniti Ke Saidhantik Paksh*, Agra, 1984.

Ajay Kumar, *Antarrashtriya Sambandhon Ke Siddhant*, Pearson, New Delhi, 2012.

Chimmi et al, *International Relations*, Pearson, New Delhi, 2012.

Sanju Gupta, *An Introduction to International Relations*, Pearson, New Delhi, 2012

POL-C-223 Public Administration-II

Max.Marks : 100

End Term Exam : 70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I Bureaucracy- Theories, Types and Roles, Max Weber and his Critics.

Civil Servant - Minister Relationship, Downsizing and Modernization of Bureaucracy.

Personnel Administration-Recruitment, Training, Promotion, Discipline, Morale Employee-Employer Relations.

Unit-II Financial Administration- Budget, Audit.

Control Over Finance with Special Reference to India.

Development Planning and Administration in India.

Unit-III Good Governance- Problems of Administration, Corruption, Transparency and Accountability.

Administrative Reforms, Right to Information.

Unit-IV Leadership- Role in Decision-Making, Communication,

Grievance Redressal Institutions- Ombudsman, Lokpal and Lokayukta.

Role of Political Parties, Pressure Groups and Public Opinion in the Process of Policy Formation.

Suggested Readings

J.E. Anderson, *Public Policy Making*, Boston, Houghton, Mifflin, 1990.

P.H., Appleby, *Public Administration for a Welfare State*, Bombay, Asia Publishing House, 1961.

A. Avasthi and S.N. Maheshwari, *Public Administration*, Agra, Laxmi N. Aggarwal, 1996.

P.R. Dubashi, *Recent Trends in Public Administration*, Delhi, Kaveri Books, 1995.

E.N. Gladden, *The Essential of Public Administration*, London, Staples Press, 1958.

J. La Palombara and M. Weiner (eds.), *Bureaucracy and Political Development*, Princeton NJ, Princeton University Press, 1966.

S.R. Maheshwari, *Administrative Theories*, New Delhi, Allied, 1994.

F.A. Nigro and L.S. Nigro, *Modern Public Administration*, New York, Harper and Row, 1984.

L. Peters, "Downsizing the Civil Service in Developing Countries: Golden Handshake or Smiling Farewells?" *Public Administration and Development*, 18(4), Oct. 1998, pp. 381-86.

D.C. Pitt, and B.C. Smith (eds.), *The Computer Revolution: The Impact of Information Technology on Government* Brighton, Wheatsheaf Books, 1984.

R. Presthus, *Public Administration*, New York, Ronald, 1975.

D. Waldo (ed.), *Ideas and Issues in Public Administration: A Book of Readings*, New York, McGraw Hill, 1953.

Hoshiar Singh and Pradeep Sachdeva, *Public Administration*, Pearson, New Delhi, 2012.

Hoshiar Singh and Pradeep Sachdeva, *Lok Prashasan*, Pearson, New Delhi, 2012.

POL-E-221 Indian Political Thought

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I Manu, Kautilya.

Unit-II Gopal Krishan Gokhle, Bal Gangadhar Tilak, Raja Ram Mohan Roy.

Unit-III Swami Vivekanand, M.N. Roy, Swami Dayanand.

Unit-IV Gandhi, Nehru, Ambedkar

Suggested Readings :

A.S. Altekar, *State and Government in Ancient India*, Delhi, Motilal Banarsidass, 1966.

A.Appadorai, *Documents on Political Thought in Modern India*, 2 Vols., Bombay Oxford University Press, 1970.

S. Ghose, *Modern Indian Political Thought*, Delhi, Allied, 1984.

U.N. Ghoshal, *A History of Indian Political Ideas*, London, Oxford University Pres, 1959.

K.P. Jayaswal, *Hindu Polity*, Calcuta, Butterworth, 1924.

R. P. Kangle, *Arthashastra of Kautilya*, Delhi, Motilal Bansarsidass, 1965.

M.J. Kanetkar, *Tilak and Gandhi: A Comparative Study*, Nagpur, Author, 1935.

V.B. Karnik, *M.N. Roy: Political Biography*, Bombay, Jagriti, 1978.

K. P. Karunakaran, *Modern Indian Political Tradition*, New Delhi, Allied Publishers, 1962.

V.R. Mehta, *Foundations of Indian Political Thought*, New Delhi, Manohar, 1992. . . .

T. Pantham, and K. Deustch (eds), *Political Thought in Modern India*, New Delhi, Sage, 1986.

B. Parekh and T. Pantham (eds), *Political Discourse: Exploration in Indian and Western Political Thought*, New Delhi, Sage, 1987.

D.P. Roy, *Leftists Politics in India: M. N. Roy and the Radical Democratic Party*, Calcutta, Minerva, 1989.

B.S. Sharma, *The Political Philosophy of M.N. Roy*, Delhi, National Publishing House, 1965.

V.P. Verma, *Studies in Hindu Political Thought and its Metaphysical Foundations*, Delhi, Motilal Banarsidass, 1974.

Shefali Jha, *Western Political Thought*, Pearson, New Delhi, 2012.

Bhargava and Acharya, *Political Theory: An Introduction*, Pearson, New Delhi, 2012.

Bhargava and Acharya/Choubey, *Rajniti Siddhant: Ek Parichay*, Pearson, New Delhi, 2012.

Kymlicka/Choubey, *Samkaleen Rajniti-Darshan: Ek Parichay*, Pearson, New Delhi, 2012.

Abbas, *Political Theory*, Pearson, New Delhi, 2012

POL-E-222 Research Methodology-II

Max.Marks : 100.

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I Identification and Formulation of Problem.

Research Design: Formation, Experimental and Non-Experimental Designs

Sampling-Principles and Methods.

Unit-II Data-Types and Sources, Observation, Questionnaire, Schedule and Interview.

Survey Method- Utility, Application and Limitations.

Unit-III Analysis of Secondary Data-Archival and Library Research, Document Analysis, Using Written Records, Scrutinizing the Evidences, Content Analysis.

Quantification in Social Research: Statistics- Meaning, Purpose and Scope, Statistical Techniques of Data-Analysis.

Unit-IV Presentation of Data- Textual, Graphic and Tabular.

Presentation of Research- Paper Writing, Report Writing and Thesis Writing.

Suggested Readings

H.N. Blalock, *An Introduction to Social Research*, Englewood Cliffs NJ, Prentice Hall, 1970.

J. Blondel, *Thinking Politically*, London, Wildwood House, 1976.

A. Bryman, *Quantity and Quality in Social Research*, London, Unwin Hyman, 1988.

A.F. Chalmers, *Science and Its Fabrication*, Milton Keynes, Open University Press, 1990.

J. Galtung, *Theory and Methods of Social Research*, New York, Columbia University Press, 1987.

A.Giddens, *Profiles and Critiques in Social Theory*, London Macmillan, 1982.

W.J. Goode and P.K. Hatt, *Methods of Social Research*, New York, McGraw Hill, 1952.

A.C. Isaak, *Scope and Methods of Political Science*, Homewood Illinois, Dorsey Press, 1985.

J.B. Johnson and R.A. Jostyn, *Political Science Research Methods*, Washington DC, C.Q. Press, 1986.

F.N. Kerlinger, *Behavioural Research*, New York, Holt, Rinehart and Winston, 1979.

T.Kuhn, *The Structure of Scientific Revolution*, Chicago, University of Chicago Press, 1970.

R. K. Merton (ed.), *Social Theory and Social Structure*, New York, The Free Press, 1957.

D. Miller (ed.), *Pocket Popper*, London, Fontana, 1997.

Sir, K.R. Popper, *The Poverty of Historicism*, London, Reoutledge, 1991.

P.V. Young, *Scientific Social Surveys and Research*.

Robert A. Dahl, *Modern Political Analysis*, Englewood Cliffs, NJ Prentice Hall, 1963.

POL-E-223 Media and Politics

Max.Marks : 100

End Term Exam : 70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I Theories of Political Communication: Concept, Role of Communication in a Democracy; Media as a Means of Socialization

Unit-II Press and Politics in India-Critical Evaluations of Role and Impact Election Campaigns, Opinion Polls, Exit Polls, Relevance and Reliability. Agenda Setting Function of the Media.

Unit-III T.V., Radio and politics in India-Critical Evaluation of role and Impact Freedom of Media and Right to Information

Unit-IV Mass Media and the Government- Issues and Problems: Government Monopoly; Executive Censorship; Judicial Interpretation; Legislation Mass Media , Nation Building and Political Development in India

Suggested Readings

Yogesh Atal, *Local Communities and National Politics: A Study in Communication Links and Political Involvement.*

B.D. Dhawan, *Development of Television in India.*

S.K. Goyal, et al., *Ownership and Control Structure of the Indian Press.*

Rebert L. Hardgrave, "Politics and The Film in Tamil Nadu: The Stars and the DMK", *Asian Survey*, March 1973.

Indian Institute of Mass Communication, *An Indian Personality for Television: Report of the Working Group on Software for Doordarshan.*

Sharad Karkhanis, *Indian Politics and the Role of the Press.*

Prayag Meha, *Election Campaign.*

Ministry of Information and Broadcasting, Publication Division, Govt. of India, *Mass Media in India.*

Claus Mueller, *The Politics of Communication.*

Uma Narula and S.S. Yadava, *Portrayal of Election Campaign in Press.*

A.G. Noorani, ed., *Freedom of the Press in India.*

Thomas E. Patterson, *The Mass Media Election: How Americans Choose their President.*

Nicholas Pronay and D.W. Spring, eds., *Propaganda, Politics and Film.*

R. Richter, *Whose News? Politics, the Press and the Third World.*

Susanne H. Rudolph, "Form Madras: A View of the Southern Film", *Yale Review*, Vol. 60, No. 3, March 1971.

B. Rubin, *Media Politics and Democracy.*

Aruna Vasudev, An Outlook for India's Future.

POL-E-224 Geo-Politics and World Affairs

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I Scope and Importance of Geo-Politics, Geo-Politics in the Cold War and Post Cold War Era.

Importance of Geo-Political Factors-Physical, Human, Economic, Political and Environmental.

Unit-II Geo-Political Significance of West Asia, South Asia, South-East Asia and Indian Ocean.

Unit-III Land Locked States-Advantages and Disadvantages, Case Studies. Core-Periphery- Economic and Political Implication.

Unit-IV Geo-Political Explanation of Foreign Policy Formulation. Ecological Determinants.

Regionalist, Internationalist Globlist Challenges and Opportunities.

Suggested Readings

Charles C. Colby, ed., *Geographic Aspects of International Relations*.

J.P. Cole, *Geography and World Affairs*.

W. Gordon East and A.E. Moodie, eds., *The Changing World: Studies in Political Geography*.

Pascal Girot and Eleonore Kofman, eds., *International Geopolitical Analysis*.

C.S. Gray, *The Geopolitics of the Nuclear Era: Heartland, Rimland and the Technological Revolution*.

W.A. ZDouglass Jackson, *Politics and Geographic Relationships*.

B.M. Russett, *International Regions and International System*.

R. Strausz-Hupe, *Geopolitics*.

L.M. Alexander, *World Political Patterns*, Ran McNally, Chicago, 1963.

B.L. Sukhwal, *Modern Political Geography*, Sterling Publishers, New Delhi, 1968.

Teter Taylor, *Political Geography*, Longmen, London, 1985.

N.J. G. Pounds, *Political Geography*, McGraw Hill, New York, 1972.

A.E. Moddie, *Geography Behind Politics*, Hutchnison, London, Latest Edition.

J.R.V. Prescott, *The Geography of Frontiers and Boundaries Aldine*, Chicago.

R.D. Dikshit, *Political Geography: A Contemporary Perspective*, Tata McGraw Hill, New Delhi, 1996.

R.D. Dikshit, *Political Geography: A Century of Process*, Sage, New Delhi, 1999.

C.D. Deshpande, *India-A Regional Interpretation Northern Book Centre*, New Delhi, 1992.

K.M. Panikkar, *Geographical Factors in India History*, 2 Vols, Asia Publishing House Bombay, 1959.

POL-OE-02 India and World

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I Meaning, Nature, Determinants and Making of India's Foreign Policy.

Unit-II India's Relations with Major Powers: USA, USSR & Russia.

Unit-III India and its Neighbors: China, Pakistan, small Neighbours, and SAARC.

Unit-IV India's Nuclear Policy, India and the United Nations, India and NAM.

Suggested Readings

- R.S. Yadav Bharat Ki Videsh Niti (In Hindi), Pearson , New Delhi, 2013
- R.S. Yadav & India's Foreign Policy : Contemporary Trends, New Delhi, Shipra, 2009
- Suresh Dhanda, eds
- R.S. Yadav (ed.) India's Foreign Policy Towards 2000 A.D., New Delhi, Deepak & Deep, 1993
- J. Bandhopahdyaya The Making of India's Foreign Policy, Calcutta, Allied , 1979
- N.K Jha (ed.) India's Foreign Policy in a Changing World , New Delhi, South Asian Publishers, 2000
- C. Raja Mohan Crossing The Rubicon : The shaping of India's New Foreign Policy, New Delhi, Viking , 2003
- N S. Sisodida & Emerging India : Security and Foreign Policy perspective, New Delhi Promilla, 2007
- C Uday Bhaskar, eds
- Rajen Harshe & Engaging With the World : Critical Reflections on India's Foreign Policy, New Delhi, Orient Longman, 2005
- KM. Sethi, eds,
- Anand Mathur & India Profile in Polycentric world orders, Jaipur, RBSA, 2008 Sohan Lal Meena, eds
- Jayanta Kumar Roy India's Foreign Relations, 1947-2007, Routledge, New Delhi, 2011.
- Anjali Ghosh, et al. India's Foreign Policy Person, New Delhi, 2012.

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

UNIT-I Meaning, Nature, Concerns and Significance of Political Theory; Different Interpretations of Political Theory. Importance and Limitations of Classical Tradition.

UNIT-II Behaviouralism and Post Behaviouralism. Decline of Political Theory; Resurgence of Political Theory.

UNIT-III Critical Theory: Herbert Marcuse, Jurgen Habermass, Libertarianism: Hayek and Nozick.

UNIT-IV Rationalism & Limits of Politics: Michael Oakshott; Importance of Politics and Power: Hannah Arendt.

Suggested Readings

D.Bell, The End of Ideology, New York, The Free Press, 1960.

A.Cobban, 'The Decline of Political Theory,' Political Science Quarterly, 1953, LXVIII, pp. 321-337.

D. Easton, The future of the postbehavioural phase in political science, in Contemporary Empirical Political Theory, K. R. Monroe (ed.), Berkeley, University of California Press, 1997.

F. Fukuyama, The End of History and the last Man, Harmondsworth, Penguins, 1992.

R. E. Goodin and H.D. Klingemann (eds.), A New Handbook of Political Science, Oxford, Oxford University Press, 1996.

D. Held, Political Theory Today, Cambridge, Polity Press, 1991.

W. Kymlicka, Contemporary Political Philosophy : An Introduction, Oxford, The Clarendon Press, 1990.

S. Mulhall and A. Swift, Liberals and Communitarians, Oxford, Basil Blackwell, 1992.

R. Plant, Modern Political Thought, Oxford, Blackwell, 1991.

G.H. Sabine, What is Political Theory?, Journal of Politics, 1939, 1(1).

R. J. Bernstein (ed.), Habermas and Modernity, Cambridge, Polity Press, 1985.

R. Grant, Oakshott, London, Claridge Press, 1990.

L. Hutcheon, The Politics of Postmodernism, London and New York, Routledge, 1989.

S. K. White, Political Theory and Postmodernism, Cambridge, Cambridge University Press, 1991

POL-C-232 Comparative Politics-I

Max.Marks : 100

End Term Exam : 70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

UNIT-I Comparative Politics: Meaning, Nature & Scope; Evolution of Comparative Politics as a Separate Discipline. Approaches to the Study of Comparative Politics: Traditional Approaches: Philosophical.

UNIT-II Modern Approaches: Political Culture, Political Socialization, Political Development, Political Modernization, Political Participation.

UNIT-III Constitutionalism: Concept, History of Constitutionalism and Problems, Forms of Government: Unitary & Federal, Presidential & Parliamentary.

UNIT-IV Liberal Democratic & Authoritarian Political Systems; Organs of Government: Executive, Legislature & Judiciary – their relationship in Comparative Perspective.

Suggested Readings

G.A. Almond and J.S. Coleman, The Politics of the Developing Areas, Princeton NJ, Princeton University Press, 1960.

G.A. Almond, and S. Verba, The Civic Culture : Political Attitudes and Democracy in Five Nations, Princeton NJ, Princeton University Press, 1963.

G.A. Almond, Comparative Politics Today : A World View, 7th edn., New York, London, Harper/Collins, 2000.

D.E. Apter, The Politics of Modernization, Chicago, University of Chicago Press, 1965.

A.Bebler and J. Seroka (eds.), Contemporary Political Systems: Classifications and Typologies, Boulder Colorado, Lynne Rienner Publishers, 1990.

L.J.Cantori and A.H. Zeigler (ed.), Comparative Politics in the Post-Behaviouralist Era, London, Lynne Rienner Publisher, 1988.

O. Dunleavy and B.O' Leary, Theories of Liberal Democratic State, London, Macmillan, 1987.

R. Hauge and M. Harrop, Comparative Government and Politics. An Introduction, 5th edn., New York, Palgrave, 2001.

H. Finer, Theory and Practice of Modern Government, London, Methuen, 1969.

J.C. Johari, Comparative Political Theory: New Dimensions, Basic Concepts and Major Trends, New Delhi, Sterling, 1987.

K. Kumar, Revolution : The Theory and Practice of a European Idea, London, Weidenfeld and Nicolson, 1971.

R.C. Macridis, The Study of Comparative Government, New York, Doubleday, 1955.

R.C. Macridis and R.E. Ward, Modern Political Systems : Europe, and Asia, 2nd edn. Englewood Cliffs NJ, Prentice Hall, 1968.

J. Manor (ed.), Rethinking Third World Politics, London, Longman, 1991.

R.C. Macridis, Modern European Governments: Cases in Comparative Policy - Making, Englewood Cliffs NJ, Prentice Hall, 1968.

L.W. Pey (ed.), Communication and Political Development, Princeton NJ, Princeton University Press, 1963.

R.I. Rotberg (ed.), Politics and Political Change : A Journal of Inter-Disciplinary History Reader, Massachusetts, MIT Press, 2001.

H.J. Wiarda (ed.), New Developments in Comparative Politics, Boulder Colorado, Westview Press, 1986.

Prabir De, Comparative Politics, Pearson, New Delhi, 2012.

POL-C-233 International Law-I

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

UNIT-I Nature, Scope and Basis of International Law; Sources of International Law.
Relationship between International Law and Municipal Law.

UNIT-II Codification, Subjects of International Law.
Recognition; State Succession; Intervention and Treaties.

UNIT-III Jurisdiction over Aliens; Nationality; Extradition and Diplomatic Privileges and Immunities.

UNIT-IV State Territory and Jurisdiction over Land, Air and Water; Modes of Acquiring and Losing State Territory.

Suggested Readings

Brownline, Principles of Public International Law, Oxford, Clarendon Press, 1973, Second Edition.

C.G. Fenwick, International Law, Bombay, Vakils, 1971.

J.G. Starke, An Introduction to International Law, London, Butterworths, 1972.

P.E. Corbett, Law and Diplomacy, Princeton NJ, Princeton University Press, 1959.

K. Deutsch and S. Hoffman (ed.), The Relevance of International Law, Oxford, Clarendon Press, 1955.

L. Duguit, Law in the Modern State, New York, B.W. Huebsch, 1919.

W. Friedmann, The Changing Structure of International Law, New York, Columbia University Press, 1964.

H. Kelsen, Principles of International Law, New York, Rinehart and Co., 1952.

J. Mattern, Concepts of State, Sovereignty and International Law, Baltimore, Johns Hopkins Press, 1928.

L. Oppenheimer, International Law Vol. 1, 1969, Revised edn., Vol II, 1953.

J. Stone, Legal Controls of International Conflict, New York, Rinehart and Company, 1954.

C. de Visscher, Theory and Reality in Public International Law, Princeton NJ, Princeton University Press, 1957.

Sir J.F. Williams, Aspects of Modern International Law, New York, Oxford University Press, 1939.

POL-C-234 International Organization and Global Order Studies-I

Max.Marks : 100

End Term Exam : 70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

UNIT-I Historical Evolution of International Organization: Concert of Europe, Hague Systems, Public International Unions, Genesis of League. Origin of the United Nations: Nature and Principles; Comparison between League and UN systems.

UNIT-II Organs of the United Nations: General Assembly, Security Council, Economic & Social Council, Trusteeship, International Court of Justice, Secretariat; Role of Secretary General.

UNIT-III Disarmament; Changing Nature of UN in the Post-Cold War Era; Democratization of UN System and India's Claim for Permanent Seat in Security Council.

UNIT-IV International Organization and Global Political Problems: Pacific and Coercive Methods for the Settlement of Disputes, Promotion of International Cooperation and Non-Political Agencies, Role of Special Agencies of the UN; United Nations and Socio-Economic Development.

Suggested Readings

Richard K. Ashley, "The Eye of Power : The Politics of World Modelling," International Organization, Vol. 37, No. 3, 1983.

Inis Claude, Changing United Nations, New York, Random House, 1967.

Inis Claude, Swords into ploughshares : The Problems and Progress of International organisations, New York, Random House, 1971.

S.J.R. Bilgrami, International Organisation, New Delhi, Vikas, 1971.

E. Laurd, A History of the United Nations, London, Macmillan, 1989.

R.C. Angell, The Quest for World Order, Ann Arbor, University of Michigan Press, 1979.

A.L. Bennett, International Organizations : Principles and Issues, Englewood Cliffs NJ, Prentice Hall, 1977.

H.G. Nicholas, The UN as a Political Institution, Oxford, Oxford University Press, 1975.

W.H. Lewis (ed.), The Security Role of the United Nations, New York, Praegar, 1991.

Ronald Meltzer, "Restructuring the UN System, Institutional Reform, Efforts in the Context of North-South Relations," International Organization, vol. 32, No. 4, 1978.

Ronald Yalem, "Conflicting Approaches to World Order," Alternatives, Vol. 5, 1979-1980.

P. Baehr and L. Gordenker, The United Nations in the 1990s, London, Oxford University Press, 1992.

Rikhey, Strengthening UN Peace keeping, London, Hurst and Co., 1993.

K. P. Saxena, Reforming the United Nations : The Challenge and Relevance, New Delhi, Sage, 1993.

POL-E-231 India's Foreign Policy & Relations-I

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

UNIT-I Meaning of Foreign Policy: History, Principles and Objectives of India's Foreign Policy; Domestic and External Determinants.

UNIT-II Structure and Process of Foreign Policy Making-Role of Cabinet and National Security Council, Ministry of External Affairs, Parliament and Intelligence Agencies.

UNIT-III India's Relations with Major Countries: - USA, USSR/Russia, Britain, Japan and Australia.

UNIT-IV India's Foreign Economic Policy-Determinants, Impact of Globalization, Foreign Direct Investments, Foreign Aid and Foreign Trade

Suggested Readings

R.S. Yadav, *Bharat Ki Videsh Niti* (in Hindi), Pearson, New Delhi, 2012.

R.S. Yadav & Suresh Dhanda, eds., *India's Foreign Policy: Contemporary Trends*, New Delhi, Shipra, 2009.

R.S. Yadav (ed.), *India's Foreign Policy Towards 2000 A.D.*, New Delhi, Deep & Deep, 1993.

J.N. Dixit, *Across Border: Fifty Years of India's Foreign Policy*, New Delhi, 1999.

J. Bandhopadhyaya, *The Making of India's Foreign Policy*, Calcutta, Allied, 1979.

V.P. Dutt, *India's Foreign Policy in a Changing World*, New Delhi, Vikas, 1999.

N.K. Jha (ed.), *India's Foreign Policy in a Changing World*, New Delhi, South Asian Publishers, 2000.

H. Kapur, *India's Foreign Policy : 1947-1993*, New Delhi, Sage, 1994.

N. Jetley, *India's Foreign Policy : Challenges and Prospects*, New Delhi, Janaki Prakashan, 1985.

S. Mansingh (ed.), *India's Foreign Policy in the 21st Century*, New Delhi, Foreign Policy Institute, 1999.

R. Thakur, *Politics and Economics of India's Foreign Policy*, Delhi, Oxford University Press, 1993.

C. Raja Mohan, *Crossing The Rubicon: The Shaping of India's New Foreign Policy*, New Delhi, Viking, 2003.

N.S. Sisodia & C. Uday Bhaskar, eds., *Emerging India: Security and Foreign Policy Perspective*, New Delhi, Promilla, 2007.

Rajen Harshe & K.M. Seethi, eds., *Engaging with the World: Critical Reflections on India's Foreign Policy*, New Delhi, Orientlongman, 2005.

Anand Mathur & Sohanlal Meena, eds., *India Profile in Polycentric World Order*, Jaipur, RBSA, 2008.

Annpurna Nantiyal, ed., *Challenges to India's Foreign Policy in the New Era*, New Delhi, 2006.

Atish Sinha & Madhup Mahota, eds., *Indian Foreign Policy: Challenges and Opportunities*, New Delhi, Academic, 2007.

Jayanta Kumar Roy, *India's Foreign Relations, 1947-2007*, Routledge, New Delhi, 2011.

Dilip H. Mohite and Amit Dholakia, eds, *India and The Emerging World Ordre*, Kalinga, New Delhi, 2001.

Anjali Ghosh & others, *India's Foreign Policy*, Pearson, New Delhi, 2012.

POL-E-232 Women Studies: Some Contemporary Issues

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I Gender Relations Framework, Concept of Sex and Gender, Patriarchy, Masculinity and Femininity, Gender Discrimination, Women and Work.

Unit-II Feminism and Feminist Movements in India.

Unit-III Contemporary Issues: Female Foeticide and Infanticide, Declining Sex Ratio, Domestic Violence, Sexual Harassment of Women at Workplace, Role of Community and Caste in the Contemporary Context, Honour Killings.

Unit-IV Empowerment of Women: Need, Objectives and Process, Status of Women in India

Suggested Readings

- | | |
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| Maria Mies
New Delhi 1980 | Indian Women and Patriarchy Concept Publishing Company, |
| Agarwal, Bina | Patriarchy and the Modernizing State: An Introduction in |
| Agarwal Bina (ed), Structures of Patriarchy, Kali for Women, New Delhi, 1988 | |
| Banks, Olive | Faces of Feminism: A Study of Feminism as a Social |
| Movement, St. Martin's Press, New York, 1981 | |
| Bhasin and Khan | Some Questions on Feminism, Kali for Women, New Delhi, |
| 1986 | |
| Jayawardane, Kumari | Feminism and Nationalism in the Third World, The Institute of |
| Social Studies, The Hague, Netherlands, 1987 | |
| Bhasin, Kamala | What is Patriarchy? Kali for Women, New Delhi, 1993 |
| Yadav, Sushma | Gender Issues in India |
| Mishra, Anil Dutt | |
| Raha, Manish Kumar | Matriliney to Patriliney (A Study of the Rabha Society) Agarwal, |
| Anurag | Female Foeticide Myth and Reality |
| Singh, Subhash Chandra | Gender Violence, New Delhi, Serials Publications, 2011 |

POL-E-233 Political Sociology: The Indian Context

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

UNIT-I Meaning, Nature and Scope of Political Sociology, Historical Sociology – Weber, Evolution and Development of Political Sociology.

Major Approaches to the Study of Political Sociology: Systems, Structural Functional, Behavioural & Conflict Approach.

UNIT-II The Social Framework and the Political System in India: Political Influence, Power, Authority and Bureaucracy, Legitimacy, Masses and Elite.

UNIT-III Interaction between Society & Polity: Political Recruitment, Political Communication, Socio-Economic Bases of Community Power Structure & Political Participation.

UNIT-IV Social Asymmetries and Politics in India: Social Stratification – Theory and Practice with Special Reference to Caste and Class, Equality and Inequality Debate.

Suggested Readings

G.A. Almond and S. Verba, *The Civic Culture*, Princeton NJ, Princeton University Press, 1963.

S. Bayly, *Caste, Society and Politics in India from the Eighteenth Century to the Modern Age*, Cambridge, Cambridge University Press, 1999.

R. Bendix, and S.M. Lipset, *Class, Status and Power*, 2nd edn., New York, The Free Press, 1966.

P.R. Brass, *Caste, Faction and Party in Indian Politics*, Vols. 2, Delhi, Chankya Publication, 1984-85

P.R. Brass, *Ethnicity and Nationalism : Theory and Comparison*, New Delhi, Sage, 1991.

R.E. Dawson and K. Prewitt, *Political Socialization*, Boston, Little Brown, 1969.

A.R. Desai, *State and Society in India : Essays in Dissent*, Bombay, Popular, 1974.

M. Galanter, *Competing Equalities : Law and the Backward Classes in India*, Berkley, University of California Press, 1983.

M. Janowitz, *Political Conflict : Essays in Political Sociology*, New York, New Viewpoints, Watts, 1970.

R. Kothari, *Caste and Politics in India*, New Delhi, Orient Longman, 1970.

R. Kothari, *Politics in India*, New Delhi, Orient Longman, 1970.

R. Kothari, *Democratic Polity and Social Change in India*, Delhi, Allied, 1976.

A.Kumar (ed.), *National-Building in India : Culture, Power and Society*, New Delhi, Radiant Publishers, 1999.

L.Milbrath, *Political Participation*, Skokie Illinois, Rand-McNally, 1965.

T.K. Oomen, *Protest and Change : Studies in Social Movements*, New Delhi, Sage, 1990.

D. Sheth, "Caste and Class : Social Reality and Political Representation" in V.A. Pai Panadikar and A. Nandy (eds.), *Contemporary India*, Delhi, Tata McGraw Hill, 1999.

POL-E-234 Human Rights in India

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit I Historical Developments of Human Rights in India, Human Rights and Indian Constitution, Human Rights Declaration and Implications for India.

Unit II Human Rights Violence in Society; In Family; Among Caste and Religious Groups.

Unit III Role and Working of National Human Rights Commission and State Human Rights Commissions.

Unit IV Protection of Human Rights of Women, Children, Minorities etc.

Suggested Readings:

Bajwa, G.S., Human Rights in India: Implementation and Violations. Anmol publications : Delhi, 1995.

Mehta P.L., Human Rights under the Indian Constitution, Deep and Deep publications: New Delhi, 2002.

Venkataramiah E.S. (Ed), Human Rights in a Changing World, International Law Association: New Delhi, 1988.

Hingorani R.C., Human Rights in India Oxford: University of Michigan, 1985.

Shankar Sen, Human Rights in a Developing Society, Sage Publications: New Delhi, 2009.

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit - I Indian Constitution:

- a) Nature of the Constitution salient features – Preamble
- b) Fundamental Rights, Directive Principles – Fundamental Duties
- c) Amendments of the Constitution: Procedure for Amendment – Emergency Provisions

Unit – II Centre – State Relations and Local Self Government

- a) Distinctive features of Indian Federation
- b) Legislative, Administrative and Financial relations between the Union and the States
- c) Decentralization Experiments in India – 73rd and 74th Amendments and their implementation

Unit – III State Government and Social Welfare Administration

- a) Governor, Chief Minister and Council of Ministers
- b) Changing Nature of District Administration and the role of District Collector
- c) Reservations for SC,ST and Backward classes

Unit IV Accountability & Control

- a) Legislative and Executive Control
- b) Judicial Control and Judicial Review c) Right to Information Act
- d) National SC and ST Commission; Women's Commission

Suggested Readings

- Avasthi and Avasthi (2002), Indian Administration, Laxmi Narain Aggarwal, Agra.
Basu, D.D. (2000), Introduction to the Constitution of India, Wadhwa and Company, New Delhi.
Fadia and Fadia, Indian Administration (2002), Sahitya Bhavan Publications, Agra.
Granville Austin (1999), The Indian Constitution – Corner Stone of a Nation, OUP, New Delhi.
Maheshwari, S.R. (2001) Indian Administration, Orient Blackswan, Hyderabad
Pylee, M.V. (2009), An Introduction to the Constitution of India, Vikas, New Delhi.
Ramesh K. Arora and Rajni Goyal (2000), India Public Administration, Vishwa Parkashan, New Delhi.
Sathe, S.P. (2002), Judicial Activism in India, New Delhi: Oxford University Press. Subhash C. Kashyap (2010), Indian Constitution: Conflicts and Controversies, Vitasta, The Constitution of India, Government of India, 2009.
Tummala K. Krishna (1996), Public Administration in India, Allied Publications, New Delhi.

POL-C-241 Political Theory-II

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

UNIT-I Concept of Ideology; End of Ideology Debate; End of History Debate.

UNIT-II Post Modernism; Communitarianism, Green Political Theory (Environment); Feminism.

UNIT-III Theories of Liberty, Equality, Justice & Democracy.

UNIT-IV Theories of Change: Lenin, Mao & Gandhi.

Suggested Readings

Sir, I. Berlin, Does Political Theory Still Exist? In Philosophy, Politics and Society, 2nd series, ed. P. Laslett and W.G. Runciman, Oxford, Blackwell, 1964.

A.Cobban, 'The Decline of Political Theory,' Political Science Quarterly, 1953, LXVIII, pp. 321-337.

Dobson, Green Political Thought, London, Unwin Hyman, 1990.

D. Easton, The future of the postbehavioural phase in political science, in Contemporary Empirical Political Theory, K. R. Monroe (ed.), Berkeley, University of California Press, 1997.

F. Fukuyama, The End of History and the last Man, Harmondsworth, Penguins, 1992.

D. Germino, Beyond Ideology: The Revival of Political Theory, New York, Harper and Row, 1967.

R. E. Goodin, Green Political Theory, Cambridge, Polity Press, 1992.

A.Hacker, Political Theory: Philosophy, Ideology and Science, New York, Macmillan, 1961.

D. Held, Political Theory Today, Cambridge, Polity Press, 1991.

A.Heywood, Political Theory: An Introduction, London, Macmillan, 1999.

S. Mulhall and A. Swift, Liberals and Communitarians, Oxford, Basil Blackwell, 1992.

G.H. Sabine, What is Political Theory?, Journal of Politics, 1939, 1(1).

L. Strauss, What is Political Philosophy and Other Studies? Glencoe, The Free Press, 1959.

R. J. Bernstein (ed.), Habermas and Modernity, Cambridge, Polity Press, 1985.

S. Benhabib, The Reluctant Modernism of Hannah Arendt, Thousand Oaks California, Sage, 1996.

R. Grant, Oakeshott, London, Claridge Press, 1990.

N. P. Barry, Hayek's Social and Economic Philosophy, London, Macmillan, 1979.

E Butler, Hayek : His Contribution to the Political and Economic Thought of Our Time, Hounslow, Temple Smith, 1983.

C. Kukathas, Hayek and Modern Liberalism, Oxford, The Clarendon Press, 1989.

J. Wolff (ed.), Robert Nozick : Property, Justice and the Minimal State, Oxford Polity with Basil Blackwell, 1991.

POL-C-242 Comparative Politics-II

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit-I Political Elites, Party Systems, Pressure Groups.

Unit-II Electoral Systems & Electoral Processes, Separation of Powers and Checks and Balances.

Unit-III Rule of Law, Judicial Review, Bureaucracy- Roles and Problems.

Unit-IV Theories of Social Change, Social and New Social Movements.

Suggested Readings

G.A. Almond and J.S. Coleman, The Politics of the Developing Areas, Princeton NJ, Princeton University Press, 1960.

G.A. Almond, and S. Verba, The Civic Culture : Political Attitudes and Democracy in Five Nations, Princeton NJ, Princeton University Press, 1963.

G.A. Almond, Comparative Politics Today : A World View, 7th edn., New York, London, Harper/Collins, 2000.

D.E. Apter, The Politics of Modernization, Chicago, University of Chicago Press, 1965.

A.Bebler and J. Seroka (eds.), Contemporary Political Systems: Classifications and Typologies, Boulder Colorado, Lynne Rienner Publishers, 1990.

L.J.Cantori and A.H. Zeigler (ed.), Comparative Politics in the Post-Behaviouralist Era, London, Lynne Rienner Publisher, 1988.

O. Dunleavy and B.O' Leary, Theories of Liberal Democratic State, London, Macmillan, 1987.

R. Hauge and M. Harrop, Comparative Government and Politics. An Introduction, 5th edn., New York, Palgrave, 2001.

H. Finer, Theory and Practice of Modern Government, London, Methuen, 1969.

J.C. Johari, Comparative Political Theory: New Dimensions, Basic Concepts and Major Trends, New Delhi, Sterling, 1987.

K. Kumar, Revolution : The Theory and Practice of a European Idea, London, Weidenfeld and Nicolson, 1971.

R.C. Macridis, The Study of Comparative Government, New York, Doubleday, 1955.

R.C. Macridis and R.E. Ward, Modern Political Systems : Europe, and Asia, 2nd edn. Englewood Cliffs NJ, Prentice Hall, 1968.

J. Manor (ed.), Rethinking Third World Politics, London, Longman, 1991.

R.C. Macridis, Modern European Governments : Cases in Comparative Policy - Making, Englewood Cliffs NJ, Prentice Hall, 1968.

L.W. Pey (ed.), Communication and Political Development, Princeton NJ, Princeton University Press, 1963.

R.I. Rotberg (ed.), Politics and Political Change : A Journal of Inter-Disciplinary History Reader, Massachusetts, MIT Press, 2001.

H.J. Wiarda (ed.), New Developments in Comparative Politics, Boulder Colorado, Westview Press, 1986.

Prabir De, Comparative Politics, Pearson, New Delhi, 2012

POL-C-243 International Law-II

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

UNIT-I War and its effects; Enemy Character; Means for Settlement of Disputes – Amicable and Coercive.

UNIT-II Laws of War – Land, Aerial and Maritime Warfare, Legality of Instruments of Warfare.

UNIT-III Termination of War, Treatment of POWs, War Crimes, Prize Courts.

Neutrality – Definition, Status, Rights and Duties, Blockade and Contraband.

UNIT-IV Cooperative Law – Laws of Sea, Laws of Outer Space and Environmental Conferences.

Suggested Readings

Brownline, Principles of Public International Law, Oxford, Clarendon Press, 1973, Second Edition.

C.G. Fenwick, International Law, Bombay, Vakils, 1971.

J.G. Starke, An Introduction to International Law, London, Butterworths, 1972.

P.E. Corbett, Law and Diplomacy, Princeton NJ, Princeton University Press, 1959.

K. Deutsc and S. Hoffman (ed.), The Relevance of International Law, Oxford, Clarendon Press, 1955.

L. Duguit, Law in the Modern State, New York, B.W. Huebsch, 1919.

W. Friedmann, The Changing Structure of International Law, New York, Columbia University Press, 1964.

H. Kelsen, Principles of International Law, New York, Rinehart and Co., 1952.

J. Mattern, Concepts of State, Sovereignty and International Law, Baltimore, Johns Hopkins Press, 1928.

L. Oppeheimer, International Law Vol. 1, 1969, Revised edn., Vol II, 1953.

J. Stone, Legal Controls of International Conflict, New York, Rinehart and Company, 1954.

C. de Visscher, Theory and Reality in Public International Law, Princeton NJ, Princeton University Press, 1957.

Sir J.F. Williams, Aspects of Modern International Law, New York, Oxford University Press, 1939.

POL-C-244 International Organization and Global Order Studies-II

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

UNIT-I Approaches to International Organization: Disarmament, Preventive Diplomacy, Grand Debate, Trusteeship and Functional Approaches to Peace.

UNIT-II International Organization and World Order Models: Assessment of World Order Models of Clark-Sohn, Richard Falk, Marxian, Mahatma Gandhi and Rajni Kothari.

UNIT-III UN and Major International Crises: Korean, Arab-Israel, Kashmir, Iraq

UNIT-IV UN & Contemporary Issues: Human Rights, Environment, Gender & Terrorism, Revision of UN Charter; Assessment of UN System.

Suggested Readings

Richard K. Ashley, "The Eye of Power : The Politics of World Modelling," International Organization, Vol. 37, No. 3, 1983.

Inis Claude, Changing United Nations, New York, Random House, 1967.

Inis Claude, Swords into ploughshares : The Problems and Progress of International organisations, New York, Random House, 1971.

S.J.R. Bilgrami, International Organisation, New Delhi, Vikas, 1971.

E. Laurd, A History of the United Nations, London, Macmillan, 1989.

R.C. Angell, The Quest for World Order, Ann Arbor, University of Michigan Press, 1979.

A.L. Bennett, International Organizations : Principles and Issues, Englewood Cliffs NJ, Prentice Hall, 1977.

H.G. Nicholas, The UN as a Political Institution, Oxford, Oxford University Press, 1975.

W.H. Lewis (ed.), The Security Role of the United Nations, New York, Praeger, 1991.

Ronald Meltzer, "Restructuring the UN System, Institutional Reform, Efforts in the Context of North-South Relations," International Organization, vol. 32, No. 4, 1978.

Ronald Yalem, "Conflicting Approaches to World Order," Alternatives, Vol. 5, 1979-1980.

P. Baehr and L. Gordenker, The United Nations in the 1990s, London, Oxford University Press, 1992.

Rikhey, Strengthening UN Peace keeping, London, Hurst and Co., 1993.

K. P. Saxena, Reforming the United Nations : The Challenge and Relevance, New Delhi, Sage, 1993.

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

UNIT-I India's Relations with Big Neighbours – China and Pakistan

UNIT-II Relations with Small Neighbours – Bangladesh, Bhutan, Sri Lanka, Nepal

UNIT-III Relations with Different Regions and Associations – West Asia, Southeast Asia, Central Asian Republics. SAARC, ASEAN, NAM and UN.

UNIT-IV Major Challenges to Foreign policy – defence and Nuclear Policy, Human Rights, Cross Border Terrorism and Environmental Position, Assessment of Foreign Policy.

Suggested Readings

R.S. Yadav, *Bharat Ki Videsh Niti: Ek Vishleshan* (in Hindi), Pearson, New Delhi, 2012.

R.S. Yadav & Suresh Dhanda, eds., *India's Foreign Policy: Contemporary Trends*, New Delhi, Shipra, 2009.

R.S. Yadav (ed.), *India's Foreign Policy Towards 2000 A.D.*, New Delhi, Deep & Deep, 1993.

J.N. Dixit, *Across Border: Fifty Years of India's Foreign Policy*, New Delhi, 1999.

J. Bandhopadhyaya, *The Making of India's Foreign Policy*, Calcutta, Allied, 1979.

V.P. Dutt, *India's Foreign Policy in a Changing World*, New Delhi, Vikas, 1999.

N.K. Jha (ed.), *India's Foreign Policy in a Changing World*, New Delhi, South Asian Publishers, 2000.

H. Kapur, *India's Foreign Policy : 1947-1993*, New Delhi, Sage, 1994.

N. Jetley, *India's Foreign Policy : Challenges and Prospects*, New Delhi, Janaki Prakashan, 1985.

S. Mansingh (ed.), *India's Foreign Policy in the 21st Century*, New Delhi, Foreign Policy Institute, 1999.

R. Thakur, *Politics and Economics of India's Foreign Policy*, Delhi, Oxford University Press, 1993.

C. Raja Mohan, *Crossing The Rubicon: The Shaping of India's New Foreign Policy*, New Delhi, Viking, 2003.

N.S. Sisodia & C. Uday Bhaskar, eds., *Emerging India: Security and Foreign Policy Perspective*, New Delhi, Promilla, 2007.

Rajen Harshe & K.M. Seethi, eds., *Engaging with the World: Critical Reflections on India's Foreign Policy*, New Delhi, Orientlongman, 2005.

Anand Mathur & Sohanlal Meena, eds., *India Profile in Polycentric World Order*, Jaipur, RBSA, 2008.

Annpurna Nantiyal, ed., *Challenges to India's Foreign Policy in the New Era*, New Delhi, 2006.

Atish Sinha & Madhup Mahota, eds., *Indian Foreign Policy: Challenges and Opportunities*, New Delhi, Academic, 2007.

Anjali Ghosh & others, *India's Foreign Policy*, Pearson, New Delhi, 2012

POL-E-242 Human Rights in International Relations

Max.Marks : 100

End Term Exam :70

Internal Assessment/Evaluation : 30

Time: 3 Hrs. (For End Term Exam)

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit I Meaning and Nature of Human Rights, United Nations Charter on Human Rights, Universal Declaration on Human Rights and Three Generations of Human Rights

Unit II Nature and Scope of Human Rights in Developed and Developing Countries.

Unit III Working and Role of The United Nations Commission of Human Rights and UN High commission for Refugees.

Unit IV Human Rights Watch Organization/Insitutions – Amnesty International Organization and Transparency International.

Suggested Readings

Resurrect RC, KA, Human Rights, Sherides Book Company: New Delhi, 1995

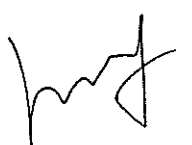
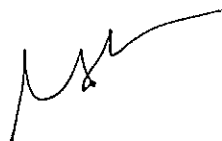
Nagendra Singh, Enforcement of Human Rights, Eastern Law House:Calcutta, 1986.

Agarwal, H.O, Implementation of Human Rights Corners with special refrence to India, DK Publishers:New Delhi, 1993.

Venkataramiah E.S. (Ed), Human Rights in a Changing World, International Law Association: New Delhi, 1988.

Hingorani R.C., Human Rights in India Oxford: University of Michigan,1985.

Shankar Sen, Human Rights in a Developing Society, Sage Publications: New Delhi, 2009.



Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

Unit – I Civil Services: Concept and Evolution

- a) Concept, Significance and Evolution of Civil Services.
- b) Classification of Civil services (All India Services, Central Services, State Services and Local Services)
- c) Union Public Service Commission and other Service Commissions

Unit – II Bureaucracy

- a) Concept of Bureaucracy – Historical Evolution b) Civil Service: Neutrality and Commitment
- c) Relationship between Politicians and Civil Servants

Unit – III Public Personnel Administration

- a) Recruitment: Methods and significance
- b) Training of Public Servants in India – Promotion System in India c) Disciplinary Procedure for Civil Servants

Unit – IV Civil Services – Citizenry Interface

- a) Civil Society and Administration
- b) Technology and Changing Nature of Public Services c) Ethics and Accountability
- d) Civil Service Reforms – Ind ARC Recommendations e) Civil Services in the context of Globalization

Suggested Readings

Armstrong, Michael (2009), A Handbook of Human Resource Management Practice, Kogan Page, London.

Aswathappa K. (2013), Human Resource Management: Text and Cases, McGraw Hill, New Delhi.

Farazmand, Ali (1994), Hand of Bureaucracy, Taylor & Francis, New York. Flippo Edwin B., (1976), Principles of Personnel Management, McGraw Hill

Goel, S.L. & Rajneesh, Shalini (2003), Public Personnel Administration, Deep & Deep, New Delhi.

Government of India, Second ARC, Tenth Report on 'Refurbishing of Personnel Administration.

Jack Robin, et al (eds) (1994), Handbook of Public Personnel Administration, Taylor & Francis, New York.

Jain, R.B. (1994), Aspects of Personnel Administration, IIPA, New Delhi.

Maheshwari Sriram (2005), Public Administration in India: The higher Civil Service, Oxford University Press, New Delhi.

Naff, Katherine C., Norma M. Riccucci, (2014), Personnel Management in Government: Politics and Process (Seventh Edition), CRC Taylor & Francis, New York.

Riccucci, Norma(2007), Public Personnel Administration and Labor Relations, M.E. Sharpe, New York.

Shafritz Jay M et.al. (2001), Personnel Management in Government, Marcel Dekker, New York.

Stah IO. Glenn (1983), Public Personnel Administration, Harper & Row.

Tead, Ordway (1920), Personnel Administration, University of California Libraries

Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

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Unit-I Constitution of India and Gender Equality:
Fundamental Rights, Directive Principles, Fundamental Duties, Public Interest
Litigation (Art 32,226)

Unit-II National Commission for Women Act, 1990, Criminal Law Amendment Act,
2013, Indian Penal Code (Rape, Kidnapping & Abduction, Cruelty to Wife, Dowry Death)

Unit-III Hindu Marriage Act: Marriage, Divorce, Maintenance Muslim Law: Marriage, Divorce,
Maintenance Property Rights

Unit-IV Medical Termination of Pregnancy Act, 1971, PC & PNDT Act, 2003, Domestic Violence
Act, 2005, Dowry Prohibition Act, 1961, Sexual Harassment of Women at Workplace, 2013

Suggested Readings

Dr. T. Bhattacharya, Indian Penal Code, Central Law Agency, Allahabad.

Dr. Devinder Singh, Human Rights and Women and Law, Allahabad Law Agency.

Shobha Saxena, Crimes Against Women and Protective Laws, Deep & Deep Publication, New Delhi.

Narender Kumar, Constitutional Law of India, Allahabad Law Agency, 2006.

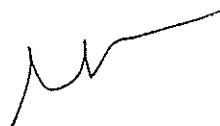
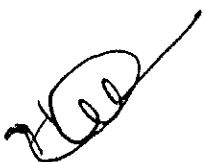
V.K. Shukla, Constitution Laws of India, Revised by Mahendra P.Singh, Eastern Book Company, Lucknow.

Justice A.S. Anand, Justice for Women-Concerns and Expressions, Universal Law Publishing Co. Pvt. Ltd., Delhi.

Diwan Paras, Family Law, (Law of Marriage and Divorce in India), Sterling Publishers Pvt. Ltd., New Delhi, 1983.

Chavan, Nandini, Personal Law Reforms and Gender Empowerment, Hope.

Qutub Jehan Kidwai, India Publication, Gurgaon, 2006.



Note-1: The evaluation of students consists of both internal and external evaluation. Internal evaluation includes mid-term examination (20 Marks) covering two units of the syllabus, an assignment (05marks) and class attendance (05 Marks). The external evaluation includes end-term examination of 70 marks covering the whole syllabus.

Note-2: For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question. All questions carry equal marks.

UNIT-I Concept, Nature and Structure of Indian Democracy; Theories of Democracy: classical, Elitist, Pluralist and Marxist.

Resilience of Democracy in India: Democratic Thinking and Tradition in Ancient India; Democratic Thinking in Indian Independence Movement and After Independence.

UNIT-II Election Commission, Electoral Process, Defects and Reforms of Electoral Process: V.M. Tarkunde, Dinesh Goswami and Inderjeet Gupta Reports, Electoral Politics and Determinants of Voting Behaviour.

UNIT-III Political Parties: Evolution, Bases, Nature and Classification of Political Parties. Their role in Democracy, Alignment and Realignment among Political Parties in India.

UNIT-IV Interest & Pressure Groups in India; Kinds and Techniques of Pressure groups: Factions and Factional Politics, Politics of Defections and Anti- Defection Law.

Suggested Readings

G.Austin, Working a Democratic Constitution : The Indian Experience, Delhi, Oxford University Press, 2000.

P. Brass, The Politics of India Since Independence, 2nd edn., Cambridge, Cambridge University Press, 1994.

P. Chatterjee (ed.), States and Politics in India, Delhi, Oxford University Press, 1997.

F. Frankel, India's Political Economy, 1947-77 : The Gradual Revolution. Princeton NJ, Princeton University Press, 1978.

A.H. Hanson and J. Douglas, India's Democracy, New Delhi, Vikas, 1972.

N. Jayal, Democracy and the State : Welfare, Secularism and Development in Contemporary India, Delhi, Oxford University Press, 1999.

N. Jayal (ed.), Democracy in India, Delhi, Oxford University Press, 2001.

Kohli, Democracy and Discontent : India's Growing Crisis of Governability, Cambridge, Cambridge University Press, 1990.

Kohli (ed.), India' Democracy : An Analysis of Changing State- Society Relations, Princeton NJ, Princeton University Press, 1988.

Kohli (ed.), The Success of India's Democracy, Cambridge, Cambridge University Press, 2001.

R. Kothari, Politics in India, Delhi, Orient Longman, 1970.

R. Kothari, Democratic Polity and Social change in India, Delhi, Allied, 1976

R. Kothari, State Against Democracy : In Search for Humane Governance, Delhi, Ajanta, 1988.

W. H. Morris-Jones, Politics Mainly Indian, Delhi, Orient Longman, 1978.

D. Sheth, "Caste and class : social reality and political representations" in V.A. Pai

Panandikar and A. Nandy (eds.), Contemporary India, Delhi, Tata MacGraw-Hil, 1999.

M.N. Srinivas, Social Change in Modern India, Bombay, Allied Publishers, 1966.

Varshney (ed.), The Indian Paradox: Essays in Indian Politics, New Delhi, Sage, 1989.

J. Sachs, A. Varshney and N. Bajpai (eds.); India in the Era of Economic Reforms, Oxford, Oxford University Press, 1999.

Neera Chandoke, Contemporary India, Pearson, New Delhi, 2011.

Parvin Kumar Jha, Tulnatamak Paripekchay mein Bhartiya Rajniti, Pearson, New Delhi, 2011.

Nawab Singh Sombanshy, Bharatiya Samvidhan ek Samagra Avlokan, Pearson, New Delhi, 2011.

**Learning Outcomes Based Curriculum Framework
(LOCF)**

For

**M. Com.
Post Graduate Programme**



**Department of Commerce
Chaudhary Devi Lal University
Sirsa-125055
2021**

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Table of Contents

1. About the Department
2. Learning Outcome based Curriculum Framework
 - 2.1 Objectives of the Programme
 - 2.2 Programme Outcomes (POs)
 - 2.3 Programme Specific Outcomes (PSOs)
3. Programme Structure
4. Course Wise Content Details











1 About the Department

The Department of Commerce was formally set up in the year 2003. Department of Commerce located in the premises of Tagore Bhawan having with a full-fledged computer laboratory and one smart classroom. In its history spanning over 18 years, it has always kept the pace with changing times and explored the new frontiers of knowledge and innovation in academics. The Department was established with the renowned flagship post-graduate programme - Masters in Commerce (M.Com.) and Ph. D. programme. These programmes are providing an extreme and rigorous base for teaching, research, extensions and allied disciplines such as trade, business, commerce, insurance, banking, and stock market. The Alumni of these course are well placed in business, academics and administration across the world.

2 Learning Outcome based Curriculum Framework

The Choice Based Credit System (CBCS) evolved into learning outcome-based curriculum framework and provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill-based courses. The courses can be evaluated in terms of grading system, which is considered to be better than the conventional awards system. Grading system provides uniformity in the evaluation and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations which enables the student to move across institutions of higher learning. The uniformity in evaluation system also enables the potential employers to assess the performance of the candidates.

2.1 Objectives of the Programme

With the vision "to nurture the young brains, to make them better employable and socially responsible citizens by encapsulating them with the right set of knowledge for a better tomorrow", the program focuses on building conviction with impartiality and modesty, create an enabling environment for innovative thought processes and nurture open - mindedness, equitability and perseverance.

The image shows five distinct handwritten signatures in blue ink, arranged horizontally. From left to right: the first signature is 'Kumar'; the second is a stylized 'A'; the third is 'Bade'; the fourth is a cursive signature; and the fifth is 'Kundu'.

2.2 Programme Outcomes (POs)

The programme is aimed at following outcomes:

PO1	Business Knowledge: Apply knowledge of business and trade theories and practices to solve business problems.
PO2	Critical Thinking: To foster Analytical and critical thinking abilities for data based decision-making.
PO3	Strategic Development: To develop strategies and to formulate plans after making trend analyses of different problems.
PO4	Business Solutions: Ability to offers business solutions to different problems in the fields of trade, business and commerce.
PO5	Leadership: Ability to develop Value based Leadership to lead various types of organisations.
PO6	Communication and Other Skills: Ability to understand, analyze and communicate global, economic, legal, and ethical aspects of business.
PO7	Team Dynamics: Ability to lead themselves by contributing effectively in a team environment.
PO8	Teaching Skills: Ability to develop the teaching skills in higher education system.

2.3 Programme Specific Outcomes (PSOs)

After completing the programme the student will be able to understand the :

PSO1	Environmental Awareness for Sustainability: Understand the new business models to access the impact of the business solutions in economic, societal and environmental contexts.
PSO2	Business Ethics and Values: Apply ethical principles and commit to commerce professional ethics and values for discharging all responsibilities within the laid norms of the business and management practices.
PSO3	Social Responsibility: Recognize the need for, and have the preparation and ability to engage in independent global business environment dynamics.
PSO4	Life-long Learning: Have to prepare for life-long learning at global level.



3 Programme Structure

M.Com. programme is a four-semester programme consisting of 104 credits wightage of Core Courses (CC), Discipline Specific Course (DSC), Skill Enhancement Courses (SEC) and Open Elective Courses (OEC).

Table 1: Course Credit Scheme (Semester Wise)

Sem.	Core Courses (CCs)		Discipline Specific Courses (DSCs)		Skill Enhancement Courses (SECs)		Open Elective Courses (OECs)		Total Credits
	No. of Courses	Total Credits	No. of Courses	Total Credits	No. of Courses	Total Credits	No. of Courses	Total Credits	
1 st	5	20			1	4			24
2 nd	5	20			1	4			24
3 rd	2	8	4	16			1	4	28
4 th	2	8	4	16			1	4	28
Total	Core Credits	56	Discipline Specific Credits	32	Skill Enhancement Credits	08	Open Elective Credits	08 Students have to opt open elective courses in consultation with Chairperson and Director, University Centre for Outreach Programmes and Extension	104
%age	Core Credits	53.84	Discipline Specific Credits	30.76	Skill Enhancement Credits	7.69	Open Elective Credits	7.69	100

Table 2: Detailed break-up of Credit Courses

	Core Courses	Discipline Specific Courses	Skill Enhancement Courses	Open Elective Courses	Total Courses	
	CCs	DSCs	SECs	OECs	CCs+ DSCs+ SECs	
1 st	CC-01		SEC-01	Students have to opt open elective courses in consultation with Chairperson and Director, University Centre for Outreach Programmes and Extension	6	
	CC-02					
	CC-03					
	CC-04					
	CC-05					
2 nd	CC-06		SEC-02		Students have to opt open elective courses in consultation with Chairperson and Director, University Centre for Outreach Programmes and Extension	6
	CC-07					
	CC-08					
	CC-09					
	CC-10					
3 rd	CC-11	DSC-01		OEC-1		7
	CC-12	DSC-02				
		DSC-03				
		DSC-04				
4 th	CC-13	DSC-05		OEC-2		7
	CC-14	DSC-06				
		DSC-07				
		DSC-08				
Total	14	08	02	02	26	

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Table 3: Course code and Title along with credits details

Sr. No.	Course Code	Course Title	Credits		
			Theory	Practical	Credits
1st Semester					
1	MCOM/GEN/1/CC1	Management Process and Organizational Behaviour	4		4
2	MCOM/GEN/1/CC2	Business Environment	4		4
3	MCOM/GEN/1/CC3	Managerial Economics	4		4
4	MCOM/GEN/1/CC4	Financial Accounting and Reporting	4		4
5	MCOM/GEN/1/CC5	Business Statistics	4		4
6	MCOM/GEN/1/SEC1	Computer Applications in Business and Cyber Security	2	2	4
Total			22	2	24
2nd Semester					
1	MCOM/GEN/2/CC6	Management Control Systems	4		4
2	MCOM/GEN/2/CC7	Advanced Financial Management and Policy	4		4
3	MCOM/GEN/2/CC8	Marketing Management	4		4
4	MCOM/GEN/2/CC9	Cost and Management Accounting	4		4
5	MCOM/GEN/2/CC10	International Business	4		4
6	MCOM/GEN/2/SEC2	Research Methodology	4		4
Total					24
3rd Semester					
1	MCOM/GEN/3/CC11	Ethics, Corporate Governance and Sustainability	4		4
2	MCOM/GEN/3/CC12	Export Import Procedures and Documentation	4		4
3	MCOM/GEN/3/DSC1	Elective1	4		4
4	MCOM/GEN/3/DSC2	Elective2	4		4
5	MCOM/GEN/3/DSC3	Elective 3	4		4
6	MCOM/GEN/3/DSC4	Elective 4	4		4
7	MCOM/GEN/9/OEC	OpenElective1	4		4
Total					28
4th Semester					
1	MCOM/GEN/4/CC13	Strategic Management	4		4
2	MCOM/GEN/4/CC14	E-Commerce	2	2	4
3	MCOM/GEN/4/DSC5	Elective5	4		4







4	MCOM/GEN/4/DSC6	Elective6	4	4
5	MCOM/GEN/4/DSC7	Elective7	4	4
6	MCOM/GEN/4/DSC8	Elective8	4	4
7	MCOM/GEN/9/OEC	OpenElective2	4	4
		Total		28

Table 4: Core Courses offered by the Department

Sr. No.	Course Code	Course Title	Credits
1	MCOM/GEN/1/CC1	Management Process and Organizational Behaviour	4
2	MCOM/GEN/1/CC2	Business Environment	4
3	MCOM/GEN/1/CC3	Managerial Economics	4
4	MCOM/GEN/1/CC4	Financial Accounting and Reporting	4
5	MCOM/GEN/1/CC5	Business Statistics	4
6	MCOM/GEN/2/CC6	Management Control Systems	4
7	MCOM/GEN/2/CC7	Advanced Financial Management and Policy	4
8	MCOM/GEN/2/CC8	Marketing Management	4
9	MCOM/GEN/2/CC9	Cost and Management Accounting	4
10	MCOM/GEN/2/CC10	International Business	4
11	MCOM/GEN/3/CC11	Ethics, Corporate Governance and Sustainability	4
12	MCOM/GEN/3/CC12	Export Import Procedures and Documentation	4
13	MCOM/GEN/4/CC13	Strategic Management	4
14	MCOM/GEN/4/CC14	E-Commerce	4
Total			56

Table 5: Discipline Specific Courses offered by the Department

Sr. No.	Course Code	Course Title	Credits
1.	MCOM/GEN/3/DSC1/FM	Contemporary Issues in Accounting	4
2.	MCOM/GEN/3/DSC2/FM	Financial Restructuring and Valuation	4
3.	MCOM/GEN/3/DSC3/FM	Financial Statement Analysis	4
4.	MCOM/GEN/3/DSC4/FM	Security Analysis	4
5.	MCOM/GEN/3/DSC5/FM	Foreign Exchange Management	4



6.	MCOM/GEN/3/DSC6/FM	Risk Management and Insurance	4
7.	MCOM/GEN/3/DSC1/MM	Marketing of Services	4
8.	MCOM/GEN/3/DSC2/MM	Consumer Behavior	4
9.	MCOM/GEN/3/DSC3/MM	Integrated Marketing Communication	4
10.	MCOM/GEN/3/DSC4/MM	Sales and Distribution Management	4
11.	MCOM/GEN/3/DSC5/MM	Logistics Management	4
12.	MCOM/GEN/3/DSC6/MM	Product and Brand Management	4
13.	MCOM/GEN/3/DSC1/HR	Human Resource Planning	4
14.	MCOM/GEN/3/DSC2/HR	Labour Laws	4
15.	MCOM/GEN/3/DSC3/HR	Management of Industrial Relations	4
16.	MCOM/GEN/3/DSC4/HR	Leadership Dynamics	4
17.	MCOM/GEN/3/DSC5/HR	Compensation Management	4
18.	MCOM/GEN/3/DSC6/HR	Business Negotiations	4
19.	MCOM/GEN/4/DSC1/FM	Management of Banks and Financial Institutions	4
20.	MCOM/GEN/4/DSC2/FM	Financial Markets and Services	4
21.	MCOM/GEN/4/DSC3/FM	Business Taxation	4
22.	MCOM/GEN/4/DSC4/FM	Portfolio management	4
23.	MCOM/GEN/4/DSC5/FM	Financial and Commodity Derivatives	4
24.	MCOM/GEN/4/DSC6/FM	Public Finance	4
25.	MCOM/GEN/4/DSC1/MM	Retail Management	4
26.	MCOM/GEN/4/DSC2/MM	Rural Marketing	4
27.	MCOM/GEN/4/DSC3/MM	Industrial Marketing	4
28.	MCOM/GEN/4/DSC4/MM	Social Marketing	4
29.	MCOM/GEN/4/DSC5/MM	Digital Marketing	4
30.	MCOM/GEN/4/DSC6/MM	Customer Relationship Management	4
31.	MCOM/GEN/4/DSC1/HR	Performance Management	4











32.	MCOM/GEN/4/DSC2/HR	Labour Welfare and Social Security	4
33.	MCOM/GEN/4/DSC3/HR	Managing Interpersonal and Group Process	4
34.	MCOM/GEN/4/DSC4/HR	Counselling Skills	4
35.	MCOM/GEN/4/DSC5/HR	Organizational Change and Intervention Strategies	4
36.	MCOM/GEN/4/DSC6/HR	Global Human Resource Management	4
Total			24

Table No. 6: Skill Enhancement Courses for other Departments

Sr. No.	Course Code	Course Title	Credits
1	MCOM/GEN/1/SEC1	Computer Applications in Business and Cyber Security	4
2	MCOM/GEN/2/SEC2	Research Methodology	4
Total			8

Table No. 7: Open Elective Courses for other Departments

Sr. No.	Course Code	Course Title	Credits
1	MCOM/GEN/9/OEC1	Corporate Governance and Business Ethics	4
2	MCOM/GEN/9/OEC2	Fundamentals of Commerce	4
Total			8







FIRST SEMESTER

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MCOM/GEN/1/CC1	Management Process and Organizational Behaviour
Time: Three Hours	Maximum Marks=100 (External = 70 and Internal = 30 Marks)

Course Objective: *The objective of this paper is to familiarize the students with basic management concepts and behavioral processes in the organization.*

Course Outcomes:

- CO1:** Students will be able to recall the concepts of management process and organizational behavior.
- CO2:** Students will be able to understand individual and group behavior, and understand the implications of organizational behavior on the process of management.
- CO3:** Students will be able to employ different motivational theories and evaluate motivational strategies used in a variety of organizational settings.
- CO4:** Students will be able to appraise the basic design elements of organizational structure and evaluate their impact on employees.
- CO5:** Students will be able to evaluate how organizational change and culture affect working relationships within organizations.
- CO6:** Students will be able to design strategies to manage individual, group and organizational behaviour.

Course Contents:

UNIT-I

Meaning, nature and scope of management; Management thoughts; Approaches to management: Scientific process, Decisions theory school, Quantitative and system school, Contingency theory of management; Managerial skills; Social responsibility of managers.

UNIT-II

Managerial Functions: Planning - concepts significance, types; Organizing – concept principles, types of organizations, authority responsibility, power, delegation, decentralization, Staffing; Directing (Leading, Motivating and Communicating); Coordinating; controlling, process and techniques.

The image shows five handwritten signatures in blue ink, arranged horizontally. From left to right, they appear to be: 'Kuntaw', 'A', 'Bade', 'S', and 'Skundu'.

UNIT-III

Organizational Behaviour: concepts, determinants, challenges and opportunities of OB; contributing disciplines to the OB; Organizational culture and climate; Factors affecting OB; Understanding and managing individual behavior, Personality, Perception, Values, Attitudes and Learning.

UNIT-IV

Understanding and managing group behavior: Interpersonal and group dynamics; Transactional Analysis; Applications of Emotional Intelligence in organizations. Communication: process, models of communication, issues in organizational communication. Organizational Change; to analyze the major concepts of organizational behaviour in business Organizational Development; Conflict Management and Stress Management.

Suggested Readings:

1. Chandan, J.S., *Organizational Behaviour*, Vikas Publications
2. Koontz, H & Wechrich, H., *Management*, Tata McGraw Hill.
3. Luthans, F., *Organizational Behaviour*, Tata McGraw Hill.
4. Robbins, S.P., *Management*, Prentice Hall Ins.
5. Robbins, S., Judge, T. & Sanghi, S., *Organizational Behaviour*, Prentice Hall of India.
6. Stoner, J., *Management*, Prentice Hall of India.
7. Davis, K., *Organisational Behaviour*, Tata McGraw Hill.

Important Instructions for the Course Coordinator and the Examiner:

- The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course by the Course Coordinator.
- As per ordinance 2021-22 approved by Academic Council held on 24.07.2021:
For End-term examination of 4/3/2 credit course, the examiner is required to set 9/7/5 questions in all where the first question will be compulsory consisting of five short answer type questions (2 marks) covering the whole syllabus, in addition to 8/6/4 long answer type questions two from each unit. The students shall be required to attempt 5/4/3 questions in all, selecting compulsory question of 10 marks and one question from each unit.



MCOM/GEN/1/CC2	Business Environment
Time: Three Hours	Maximum Marks=100 (External = 70 and Internal = 30 Marks)

Course Objective: *The objective of this course is to analyze the micro and macro environment of business in coherent and critical manner.*

Course Outcomes:

- CO1:** Students will be able to define and trace all the indicators of micro and macro environment affecting business organizations
- CO2:** Students will be able to identify and illustrate the impact, challenges and opportunities of all environmental indicators on business organizations
- CO3:** Students will be able to apply and demonstrate the gathered knowledge about how the various laws and other national and international policies influence the organizations in order to take proactive measures so that organizational effectiveness is maintained.
- CO4:** Students will be able to distinguish and examine the necessary techniques and skills that help them in handling the organization's global and national issues efficiently.
- CO5:** Students will be able to evaluate and value the importance of environment within which a business organization has to sustain itself successfully
- CO6:** Students will be able to design and develop their approaches and systems in maintaining coherence both at micro and macro level

Course Contents:

UNIT-I

Indicators of Internal and External Business environment; Environmental scanning and risk assessment; Concepts of Economic systems; New Industrial Policy-1991 and Recent Financial and Economic Reforms, Recent Monetary and Fiscal Policy and their impact on Business Environment.

UNIT-II

Impact of Political, Economic, Social and Technological Environment on the Emerging Sectors of Indian Economy: Public Sector, Private Sectors, Services Sector and SME Sector; Privatization in India; Public Private Partnership; Challenges and Opportunities in the Rural sector.



UNIT-III

Globalization Business Environment; Opportunities and challenges for MNCs in India; Foreign investment in India; Indian Foreign Trade and its Impact on Balance of Payment, Exchange rate Movements and India's Competitiveness in the world economy; World Trade Trends and Economic Integration. Contemporary Issues: Climate change, Food security, Geopolitics Sustainable Development and De-Globalization.

UNIT-IV

Legislations for Social Responsibilities- Consumer protection Act, 1986 and its Amendments, Competition Act, 2002 and its Amendments and Environmental Protection Act, 1986; Foreign Exchange Management Act, 1999 (FEMA) and their influences on the Business Environment.

Suggested Readings:

1. Faisal Ahmed and M. Absar Alam. Business Environment: Indian and Global Perspective, PHI, New Delhi.
2. Cherunilam, Francis, *Business Environment*, Himalya Publishing House.
3. Misra, S.K. & Puri, V.K., *Indian Economy*, Himalya Publishing House.
4. Aswath Thapa, K., *Business Environment*, Excel Books.
5. Bedi S.K., *Business Environment*, Excel Books.
6. Khujan Singh, *Business Environment – Theory and Practice*, IAHRW Publications
7. Paul Justin, *Business Environment*, Tata Mc Graw Hill.
8. Economic Survey, Govt. of India.

Important Instructions for the Course Coordinator and the Examiner:

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MCOM/GEN/1/CC3	Managerial Economics
Time: Three Hours	Maximum Marks=100 (External = 70 and Internal = 30 Marks)

Course Objective: *The objective of this course is to acquaint the students with concepts and techniques used in the field of economics and to enable them to apply this knowledge in business decision-making. Emphasis is given to changes in the nature of business firms in the context of globalization.*

Course Outcomes:

- CO1:** Students will be able to define the terms associated with managerial economics.
- CO2:** Students will be able to explain different theories of managerial economics.
- CO3:** Students will be able to apply the models of managerial economics in business decisions.
- CO4:** Students will be able to examine the demand and supply forces and their effect on pricing and output related decisions.
- CO5:** Students will be able to evaluate the effectiveness of various models and theories of managerial economics in demand, supply, production and costs related decision making procedures.
- CO6:** Students will be able to create the competitive strategies to ensure optimum utilisation of resources.

Course Contents:

UNIT-I

Theory of demand and consumer equilibrium-utility and indifference curve approach; Demand function; Elasticity of demand and its significance in managerial decision-making; Demand forecasting and its techniques.

UNIT-II

Theory of Cost: Types of cost: production cost, selling cost, R&D Cost, short run and long run cost curves, relation between cost and revenue, break-even point; Economies and diseconomies of scale and scope; Production function : Short term and long run production function, law of variable proportion and return to scale, Iso-quant curves.

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UNIT-III

Market Structure and Competition: Price and output determination under perfect competition, monopoly, monopolistic competition and oligopoly.

UNIT-IV

Modern theories of firm: Bamoul's theory of sales maximization, Managerial Theory, Behavioral Theory; National Income: Concept and Measurement.

Suggested Readings:

1. Ferguson, P. R. Rothschild, R. Ferguson G.J. , Business Economics, Palgrave Macmillan.
2. Dwivedi, D.N., Managerial Economics, Vikas Publication.
3. Salvatore, *Managerial Economics in Global Economy*, Thomson Learning.
4. Thomas, C.R. & Maurice S.C., *Managerial Economics*, Tata McGraw Hill.
5. Koutsoyiannis, A., *Modern Economics*, Macmillian

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MCOM/GEN/1/CC4	Financial Accounting and Reporting
Time: Three Hours	Maximum Marks=100 (External = 70 and Internal = 30 Marks)

Course Objective: *The basic purpose of this course is to develop an insight of postulates, principles and techniques of accounting and application of financial and accounting information for planning, decision-making and control.*

Course Outcomes:

CO1: Students will be able to describe various accounting concepts and principles.

CO2: Students will be able to recognize the usefulness of Financial Accounting & Reporting and its applications in the business.

CO3: Students will be able to apply the principles, postulates and techniques of accounting for planning and decision making.

CO4: Students will be able to differentiate between various types of accounting and reporting practices being followed within the organisation.

CO5: Students will be able to appraise the performance of organisations with the help of financial statements presented at the end of the year.

CO6: Students will be able to formulate advanced policy structure comprising of all accounting information required for controlling deviations in the performance.

Course Contents:

UNIT-I

Introduction to Accounting: Meaning, nature and scope, branches of accounting; Generally accepted accounting principles (GAAP); Demand and supply of financial statement information: Parties demanding financial statement information, Conflicts among parties, factors affecting demand for financial statement information.

UNIT-II

Accounting Cycle: Business transactions and source documents, Analyzing transactions, Journalizing and posting transactions, preparing a trial balance, adjusted trial balance and preparation of financial statements of trading concerns. Final Accounts with adjustments.

UNIT-III



The conceptual framework of financial Statements: purpose of the framework, scope and coverage, Qualitative characteristics of financial statements, Concept of capital and capital maintenance. Performa financial statements of corporate entities. Significance of notes to financial statements and accounting policies. Other financial reports: Auditor's report, Chairpersons report and corporate governance report.

UNIT-IV

Quality of earnings: Window dressing, Creative financial practices, impact of extraordinary items, Quality of disclosure in reported earnings. Financial Distress: meaning, indicators, models of distress prediction.

Suggested Readings:

1. Foster, George, Financial Statement Analysis, Pearson Education Incl., Second Edition.
2. Gupta, R.L. and Radhaswamy, M., Advanced Accountancy Sultan Chand & Sons, New Delhi.
3. Shukla, M.C., Grewal, T.S. and Gupta, S.C., Advanced Accounts, S. Chand & Company, New Delhi.
4. Anthony R.N., D.F. Hawkins and K.A. Merchant, *Accounting: Text and Cases* , McGraw Hill
5. Jawahar Lal, Accounting Theory and Practice, Himalaya Publishing House.

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The image shows five distinct handwritten signatures in blue ink, arranged horizontally. From left to right: the first is a cursive signature; the second is a stylized 'A' with a horizontal line; the third is a signature that appears to be 'Bade'; the fourth is a signature that appears to be 'S'; and the fifth is a signature that appears to be 'Skundu'.

MCOM/GEN/1/CC5	Business Statistics
Time: Three Hours	Maximum Marks=100 (External = 70 and Internal = 30 Marks)

Course Objective: *The objective of this course is to make students learn about the applications of statistical tools and techniques for decision making.*

Course Outcomes:

CO1: Students will be able to recall different terms used in statistics.

CO2: Students will be able to understand the different methods used in statistics.

CO3: Students will be able to apply the knowledge of statistics in their future studies as well as in corporate sector also.

CO4: Students will be able to analyze the importance of statistics in business.

CO5: Students will be able to evaluate the proficiency of statistical methods in an industry or business.

CO6: Students will be able to assemble the different methods of statistics for the well being of business

Course Contents:

UNIT-I

Univariate analysis: central tendency, dispersion (theoretical concept); Probability: Introduction, addition theorem, multiplication theorem, conditional probability, Bayes Theorem. Theoretical probability distributions: Binomial, Poisson, Normal Distribution; their characteristics and applications.

UNIT-II

Sampling: probability and non probability sampling methods; Sampling distribution and its characteristics; Hypothesis testing: hypothesis formulation, and testing; Statistical Tests: z-test, t-test, F-test, Analysis of variance, Chi-square test, Wilcoxon Signed-Rank test, Kruskal-Wallis test.

UNIT-III

Correlation analysis: simple, partial and multiple correlations; Regression analysis: simple linear regression model, ordinary least square method. Time series analysis: components of a time series and their measurements and uses.

UNIT-IV

Index numbers: meaning and types, methods for measuring indices, adequacy of indices; Statistical quality control: causes of variation in quality, Control Charts, Acceptance sampling.

Suggested Readings:

1. Gupta, S.P., *Statistical Methods*, Sultan Chand & Sons
2. Anderson, Sweeney and Williams, *Statistics for Business and Economics*, Cengage Learning.
3. Ken Black, *Business Statistics*, Wiley.
4. Levin, Richard I and David S Rubin, *Statistics for Management*, Prentice Hall, Delhi.
5. Aczel and Sounderpandian, *Complete Business Statistics*, Tata McGraw Hill, New Delhi.
6. Hooda, R.P., *Statistics for Business and Economics* McMillan, New Delhi.
7. Heinz, Kohler, *Statistics for Business & Economics*, Harper Collins, New York.
8. Lawrence B. Morse, *Statistics for Business & Economics*, Harper Collins, NY

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MCOM/GEN/1/SEC1	Computer Applications in Business and Cyber Security
Time: Three Hours	Maximum Marks=100 (External) (Theory = 50 and Practical = 50 Marks)

Course Objective: *The Objective of this course is to familiarize the student with basic concepts of information technology, its application in business and make them conscious of cyber security laws and practice.*

Course Outcomes:

- CO1:** Students will be able to relate with various software related to office application.
- CO2:** Students will be able to explain and identify electronic data transfer takes place and will be able to handle data base management systems.
- CO3:** Students will be able to use and operate telecommunication networks which are most commonly used in organizations.
- CO4:** Students will be able to question and test the various operations of the internet.
- CO5:** Students will be able to evaluate and examine the perspectives of cyber security hence bearing ethical responsibility.
- CO6:** Students will be able to develop solutions for real-life problems based on computer applications and cyber security.

Course Contents:

UNIT-I

Software Packages for Office Applications- Word Processing using MS Word, Spreadsheets using MS Excel, Presentations using MS PowerPoint, Creating web pages and web applications with HTML, Business functionalities using Tally software.

UNIT-II

Electronic Data Processing: An introduction; Data processing cycle; data hierarchy; data file structure; file organization, Data Base Management Systems

UNIT-III

Telecommunication and Networks: Types of Telecommunication Networks, Telecommunications Media, Network Topologies, Network Architectures-The OSI Model. The Internet, Intranet and

Extranets: Operation of the Internet, Services provided by Internet, World Wide Web, Intranet and Extranets.

UNIT-IV

Cyber Security: Perspective of Cyber security, Application security, Information security, Network security, End-user education, Cryptography / Encryption, Security issues in wireless, Security Threats and Vulnerabilities, Ethical Responsibility - Business Ethics, Technology Ethics; Cyber Crime and Privacy Issues. Brief introduction to Information Technology Act, 2000, IT (Amendment) Act.

Suggested Readings:

1. Ram, B., *Computer Fundamentals*, New Age Publications.
2. Rajaraman, V., *Introduction to Information Technology*, PHI.
3. Shrivastava., *Fundamental of Computer & Information Systems*, Wiley Dreamtech.
4. Chwan-Hwa (John) Wu, J. David Irwin, *Introduction to Computer Networks and Cybersecurity*, CRC Press.
5. Aparna Viswanathan, *Cyber Law*, Lexis Nexis Butterworths

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SECOND SEMESTER

Kuntur | A | Boole | IS | Skundu

MCOM/GEN/2/CC6	Management Control Systems
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to enlighten the students regarding the various tools of management control systems in manufacturing, financial services, non-profit organization and projects.*

Course Outcomes:

CO1: Students will be able to be acquainted with the concept of control system.

CO2: Students will be able to discuss various responsibility centers used in business organisation.

CO3: Students will be able to understand the management control system.

CO4: Students will be able to describe the tools of budgeting and project control.

CO5: Students will be able to know about the transfer pricing.

CO6: Students will be capable to understand the management control system in manufacturing, financial services, non-profit organization and projects.

Course Contents:

UNIT-I

Concept, boundaries and road map of management control systems, distinguishing characteristics, types of control, management control process, structure and control, goal congruence, factors affecting goal congruence, formal control systems.

Unit II

Responsibility centers: revenue and expense centers, administrative and support centers, R & D centers, marketing centers, Profit centers: general considerations, business unit profit centers, other profit centers.

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Unit III

Tools of Management control: Budgets, performance measurement, analysis of Budget, interactive control, compensation plans. Management control of projects: nature, control environment, project planning, project execution and project evaluation.

Unit IV

Transfer pricing: objectives, methods and administration of transfer pricing, pricing of corporate services, management control system in manufacturing, financial services, non-profit organization and projects.

Suggested Readings:

1. Anthony & Govindrajana, Management control systems
2. Subhash Sharma, Tests & Management Control System Cases.
3. Horngren, Foster & Datar, Cost accounting: A managerial emphasis
4. Anthony & Dearden, Management Control Systems
5. Bhattacharya & Camilus, Management Control System: A framework for resolution of problems & implementation.
6. C.K. Prahalad and G. Hamel, The core competence of the corporation, Harvard Business Review, May-June 1999, pp-79-92.

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MCOM/GEN/2/CC7	Advanced Financial Management and Policy
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The purpose of this course is to acquaint the students with the broad framework of financial decision-making in business.*

Course Outcomes:

- CO1:** Students will be able to outline the basic framework of financial management.
- CO2:** Students will be able to explain the role of financial management for financial decision making in business.
- CO3:** Students will be able to apply various theories of capital structure and dividend policy.
- CO4:** Students will be able to examine risk in capital budgeting decisions.
- CO5:** Students will be able to select various sources of finance with evaluation of their cost.
- CO6:** Students will be able to create working capital policy for organization.

Course Contents:

UNIT-I

Financial Management: meaning, objectives and scope; types of financial decisions, risk-return framework for financial decision –making; Time value of money; Capital Budgeting Decisions: nature, importance and types of investment decision; techniques of evaluating capital budgeting decisions, risk analysis in capital budgeting.

UNIT-II

Capital Structure Decisions: optimum capital structure; theories of capital structure; factors determining capital structure. Sources of long term and short term finance. Cost of Capital: concept and importance; computations of cost of various sources of finance; weighted average cost of capital.

UNIT-III

Working Capital Management: Concept and types of working capital; operating cycle, determinants

of working capital, estimation of working capital requirement; working capital policy; Management of cash, accounts receivables and inventories; financing working capital.

UNIT-IV

Dividend Policy: Dividend and its forms, theories of dividend policy and their impact on the value of a firm; types of dividend policy; Corporate Restructuring: Types of business combinations, motives of mergers and acquisitions, valuation of mergers and acquisitions.

Suggested Readings:

1. Van Horne, James C., *Financial Management and Policy*, Prentice Hall of India.
2. Pandey I. M., *Financial Management*, Vikas Publishing.
3. Damodaran, A, *Corporate Finance: Theory and Practice*, John Wiley & Sons.
4. Hampton, John. *Financial Decision Making*, Englewood Cliffs, Prentice Hall Inc.
5. Khan, M.Y. & Jain, P.K., *Financial Management*, McGraw Hill.

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MCOM/GEN/2/CC8	Marketing Management
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: The purpose of this course is to develop an understanding of the underlying concepts, strategies and issues involved in the marketing of products and services.

Course Outcomes:

- CO1:** Students will be able to recall and describe the fundamental concepts related to marketing.
- CO2:** Students will be able to describe the different approaches of marketing and environment in which marketing systems operate.
- CO3:** Students will be able to demonstrate an understanding of the 4Ps used by the marketers.
- CO4:** Students will be able to examine the upcoming trends of marketing in the ever dynamic business world.
- CO5:** Students will be able to evaluate the marketing strategies and programmes of different products in real world.
- CO6:** Students will be able to design a marketing plan for real world market offering (product/service).

Course Contents:

UNIT I

Nature, scope and concept of marketing; Corporate orientations towards the marketplace; Marketing Mix; Understanding 4 A's of Marketing; Marketing Environment and Environment Scanning; Marketing Information System and Marketing Research; Understanding Consumer and Industrial Markets; Market Segmentation, Targeting and Positioning

UNIT II

Product decisions: Product concept and classification, product mix, product life cycle, new product development; Product branding, packaging and labeling decisions; Pricing decisions: Factors affecting pricing decisions, setting the price, Pricing strategies and methods.

The image shows five handwritten signatures in blue ink, arranged horizontally. From left to right, they appear to be: 'Kuntaw', a stylized 'A', 'Bade', 'S', and 'Skundu'.

UNIT III

Distribution channels and Logistics management: nature, types and role of intermediaries, factors influencing the channel selection, intensity of market coverage; Channel behavior and Organization: conflict management, vertical marketing system, horizontal marketing system, hybrid marketing system; Logistics management: objectives and major decisions areas of logistics. Promotional and communication decisions: promotion as communication, elements of promotion mix, factors influencing promotion mix, role of advertising, sales promotion, personal selling and public relations

UNIT IV

Holistic marketing: Trends in marketing practices, Internal marketing, Socially responsible marketing, Marketing implementation and control; New issues in marketing-Globalization, Consumerism, Green Marketing, Direct Marketing, Network Marketing, Event Marketing, Ethics in Marketing.

Suggested Readings:

1. Kotler, Philip and Keller, Kevin, *Marketing Management*, Prentice Hall of India
2. Kotler, Philip and Armstrong, G., *Principles of Marketing*, Prentice Hall of India
3. Czinkota & Kotabe, *Marketing Management*, Thomson Learning
4. Ramaswamy, V.S. & Namakumari, S., *Marketing Management: Planning, Control*, Macmillan
5. Kotler, Lane, Keller., *Marketing Management*, Pearson
6. Rajan Saxena, *Marketing Management*, McGraw Hill
7. R. Srinivas, *Case Studies in Marketing- Indian Context*, PHI Learning
8. Stanton, *Fundamentals of Marketing*, McGraw Hill
9. Sontakki, C.N. et al., *Marketing Management*, Kalyani Publishers
11. Kumar, A and Meenakshi, N, *Marketing Management*, Vikas Publishing House Pvt. Ltd.
12. C.K. Prahalad, *The Fortune at the Bottom of Pyramid*, FT Press
13. Matt Haig, *100 Brand Failures*, Kogan Page
14. W. Chan Kim & Renee Mauborgne, *Blue Ocean Strategies*, Harvard Business Review Press

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MCOM/GEN/2/CC9	Cost and Management Accounting
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to develop an understanding of basic management science techniques and their role in managerial decision making.*

Course Outcomes:

CO1: Students will be able to define the basic concepts in the field of Management Accounting

CO2: Students will be able to recognize the contribution of Management and Cost Accounting in quality decision making.

CO3: Students will be able to apply various methods and techniques of Management and cost Accounting to optimize the utilization of the resources.

CO4: Students will be able to appraise the utility of different methods in finding optimal solutions of the managerial problems.

CO5: Students will be able to evaluate the performance and suitability of different methods used for efficient utilization of the resources.

CO6: Students will be able to formulate the budgets and interpret the results produced by the applied models.

Course Contents:

UNIT- I

Management Accounting-Nature, Functions, Objectives and Scope; Financial Accounting vs. Cost Accounting vs. Management Accounting; Role and Responsibilities of Management Accountant in a Business Organization. Cost Accounting: Meaning, cost concepts and classifications.

UNIT- II

Budgetary Control: Definition; Installation of the System; Classification of the Budgets; Behavioural aspects of Budgeting. Standard Costing and Variance Analysis: Concept; Setting of Standards; Analysis of different types of material, labour, overhead and sales variances.

UNIT- III

Marginal Costing and Break even analysis: Cost – Volume- Profit Analysis; Different types of Break-even Points and Charts; Application of Marginal costing to managerial decision making.

UNIT- IV

Responsibility Accounting: Concept and significance; Organisational structure and Decentralization; cost and benefits of decentralization; Responsibility Centers: Cost Centre, Revenue centre, Profit centre and Investment centre; Transfer pricing; Alternative Transfer Pricing Methods. Divisional Performance Measurement: Return on Investment; Residual Income; Economic Value Added and Return on Sales; Non – Financial Performance measures; Balanced Scorecard.

Suggested Readings:

1. Anthony A. Atkinson,, Robert S. Kaplan– Advanced Management Accounting – Prentice Hall of India, N. Delhi.
2. Charles T. Horngren, Gary L. Sundem and William O. Stratton – Introduction to Management Accounting – Pearson Education, Delhi.
3. Bhattacharyya, Debarshi – Management Accounting – Pearson.
4. Charles T. Horngren, George Foster and Srikant M. Daller – Cost Accounting : A Managerial Emphasis – Prentice Hall of India, New Delhi.
5. M.Y.Khan, P.K.Jain – Management Accounting – Tata McGraw Hill.

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MCOM/GEN/2/CC10	International Business
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to highlight the international environment, including relationships between business, government, economic groupings and the consumer. The course will also highlight the problems encountered and issues raised in managing overseas business.*

Course Outcomes:

CO1: Students will be able to describe the different concepts and terms used in the literature of International Business.

CO2: Students will be able to identify the importance of tariffs, theories, modes, foreign exchange market, international organization and strategies.

CO3: Students will be able to illustrate and interpret the macroeconomic changes that affect the international business.

CO4: Students will be able to examine the recent practices followed across functional areas of international business.

CO5: Students will be able to evaluate the strategic alliance, merger and acquisition, joint venture and regulation of international business.

CO6: Students will be able to design international business strategies.

Course Contents:

UNIT- I

International Business: Importance, nature and scope; Management of international business operations – complexities and issues; IT and international business; India's involvement in International Business; Factors affecting International Business: Social and Cultural, Economic, Political, Legal and technological advancement; Globalization - Features and Components, Advantages and Disadvantages.

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UNIT- II

Theories of international trade: Classical and modern theories of international trade; Modes of entry into International Business: Exporting, Licensing, Franchising, Contract Manufacturing, Trunk projects, Foreign Direct Investments and Joint Ventures.

UNIT- III

Multinationals (MNCs) in International Business: Issue in investment, technology transfer, pricing and regulations; International collaborations and strategic alliances. Trade barriers: tariff and non-tariff barriers, optimal tariff; Balance of payments; Exchange rate determination.

UNIT- IV

International Economic Institutions: WTO, IMF, World Bank. WTO and India; Regional Economic Integration; Theory of customs union: Partial and General Equilibrium analysis; Emerging markets: BRICS and ASEAN.

Suggested Readings:

1. Korth, Christopher M., *International Business Environment and Management*, Prentice Hall.
2. Ramu, S. Shiva, *International Business: Governance Structure*, Wheeler Publishing.
3. Bhalla, V.K., *International Business Environment and Management*, Anmol Publications.
4. Mithani, D.M., *International Economics*, Himalaya Publishing House.
5. Charles W.L. Hill, *International Business*, Tata MC Graw-Hill.
6. Czinkota, Ronkainen & Moffet, *International Business*, Thomson, South-Western.
7. Daniels, Radebaugh and Sullivan, *International Business, Environments and Operations*, Pearson Education.
8. V. Sharan, *International Business, concept, environment and strategy*, Pearson Education

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MCOM/GEN/2/SEC2	Research Methodology
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *This course is designed to introduce the students to the fundamentals of research methods and to equip them to follow scientific methods in solving business problems.*

Course Outcomes:

- CO1:** Students will be able to relate with the basic understanding of research methodology in the changing business scenario.
- CO2:** Students will be able to identify and classify the application of analytical techniques to face the tasks aimed at fulfilling the objective of business decision making.
- CO3:** Students will be able to apply and demonstrate an understanding of ethical dimensions of conducting research.
- CO4:** Students will be able to distinguish and examine the necessary experimental techniques that help in scientific decision making.
- CO5:** Students will be able to judge and support best alternatively relating to the practices learnt through research methods.
- CO6:** Students will be able to assemble and formulate advanced ways of taking decisions in a logical manner.

Course Contents:

UNIT-I

Introduction to Business Research. Formulation of the research problem and development of research hypotheses. Characteristics of Good Research, Ethics in Business Research. Research Process: Problem definition, Research Process, Research Design (Exploratory Research, Descriptive research and Experimental Research)

UNIT-II

Data collection, measurement and scaling: Secondary data collection methods, qualitative methods of data collection, attitude measurement and scaling, and questionnaire designing. Sampling Design:

Sampling concepts, sampling techniques, sample size determination and data processing

UNIT-III

Preliminary data analysis and interpretation: Univariate and Bivariate analysis of data, Testing of hypotheses, Analysis of variance techniques (one way and two way ANOVA), non-parametric tests (Chi-square test, run test, one sample and two sample sign test, Mann- Whitney U test, Wilcoxon Signed Rank Test and Kruskal – Wallis Test).

UNIT- IV

Advance Data analysis techniques: Correlation and regression analysis, Factor Analysis, Discriminant analysis, Cluster analysis and multidimensional scaling. Report writing and presentation of results.

Suggested Readings:

1. Zikmund, W. G. *Business Research Methods*. Thomson.
2. Copper, D. R., Schindler P. S. & Sharma, J. K. *Business Research Methods*, McGraw Hill Education.
3. Burns, R. B. & Burns, R. A. *Business Research Methods and Statistics using SPSS*, SAGE Publications Ltd.
4. Bajpai, N, *Business Research Methods*, Pearson.
5. Chawla, D. & Sondhi N., *Research Methodology: Concepts and Cases*, Vikas Publishing House.
6. Panneerselvam, R, *Research Methodology*, Prentice Hall India.
7. Kothari, C.R. *Research Methodology & Technique*, New Age International Publishers.

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THIRD SEMESTER

Kuntur | A | Boole | IS | Skundu

MCOM/GEN/3/CC11	Ethics, Corporate Governance and Sustainability
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to sensitize the students about the various ethical and corporate governance issues in business management in the current environment.*

Course Outcomes:

CO1: The students will be able to list various constituents of entrepreneurship development.

CO2: The students will be able to identify the various environmental factors affecting entrepreneurship development

CO3: The students will be able to demonstrate skills to develop business plan at individual level.

CO4: The students will be able to examine the feasibility of a business.

CO5: The students will be able to evaluate the funding alternatives available for entrepreneurs.

CO6: The students will be able to develop and implement a business plan.

Course Contents:

UNIT-I

Evolution of corporate governance; developments in India; regulatory framework of corporate governance in India; SEBI guidelines on corporate governance; reforms in the Companies Act.

UNIT-II

Corporate management vs. governance; internal constituents of the corporate governance; key managerial personnel (KMP); chairman- qualities of a chairman, powers, responsibilities and duties of a chairman; chief executive officer (CEO), role and responsibilities of the CEO.

UNIT-III

Introduction to Business Ethics: The concept, nature and growing significance of Ethics in Business, Ethical Principles in Business, Ethics in Management, Theories of Business Ethics, Ethical Issues in Business, Business Ethics in 21st Century.

UNIT-IV

Ethics in various functional areas of Business: Ethics in Finance, Ethics in HRM, Ethics in Marketing, Ethics in Production and Operation Management.

Suggested Readings:

1. Mallin, Christine A., *Corporate Governance (Indian Edition)*, Oxford University Press, Delhi.
2. Blowfield, Michael, and Alan Murray, *Corporate Responsibility*, Oxford University Press.
3. Francesco Perrini, Stefano, and Antonio Tencati, *Developing Corporate Social Responsibility-A European Perspective*, Edward Elgar.
4. Sharma, J.P., *Corporate Governance, Business Ethics & CSR*, Ane Books Pvt Ltd, New Delhi.
5. Manuel G. Velasquez, *Business Ethics*, Pearson Prentice Hall.
6. Ravindranath B. & Narayana B., *Business Ethics*, Vrinda Publications Pvt. Ltd

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MCOM/GEN/3/CC12	Export Import Procedures and Documentation
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The aim of the course is to acquaint the students with the export-import procedures and documentation*

Course Outcomes:

CO1: Students will be able to describe the legal framework and procedure governing international trade.

CO2: Students will be able to explain the incorporation of various terms in drafting of an export contract and understand the importance of risk management.

CO3: Students will be able to apply the concepts learned in terms of export order, delivery and international trade pricing to actual transactions.

CO4: Students will be able to appraise the role and importance of export-import documentation and procedure framework according to commodities and countries.

CO5: Students will be able to evaluate the nuances of import and export clearance procedures.

CO6: Students will be able to develop the skills to export-import various commodities in different countries and avail benefits of various export incentives and promotional schemes given by government.

Course Contents:

UNIT I

Export Preliminaries, Documentation in international trade: Aligned Documentation System (ADS); Commercial documents, Regulatory documents, Documents related to goods, shipment, payment, inspection and legal regulated documents, Official machinery for consultation.

UNIT II

Export contract: Distinction between domestic sales contract and export sales contract, Major laws for export contracts, Elements in export contracts, Dispute settlement, Role of ICC; INCOTERMS, Containerization.

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UNIT III

Export order processing; shipping and custom clearance of export and import cargo; central excise clearance; Role of clearing and forwarding agents. Types of risks in international trade, Cargo Insurance and claim Procedures

UNIT IV

Methods of payment in international trade; documentary collection of export bills, UCPDC guideline, Instruments of payments, Pre-shipment and post-shipment finance, Negotiation of documents with banks, Main Provisions of FEMA; Procedure and documentation for availing export incentives.

Suggested Readings:

2. C. Rama Gopal, Export Import Procedures, Documentation and Logistics, New Age International Publishers, New Delhi.
3. M. D. Jitendra, *Export Procedures and Documentation*, Rajat Publications.
4. Pervin Wadia, *Export Markets and Foreign Trade Management*, Manishka Publications.
5. Paras Ram, *Export: What, Where and How*, Anupam, Publications.
6. Government of India, *Handbook of Import - Export Procedures*.
7. Nabhi's Exporters Manual and Documentation.
8. Nabhi's New Import-Export Policy Procedures

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FINANCE AREA

Kuntur | A | Boole | AD | Skundu

THIRD SEMESTER

Kuntur | A | Boole | AD | Skundu

MCOM/GEN/3/DSC1/FM	Contemporary Issues in Accounting
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to analyze the major issues in accounting in coherent and critical manner.*

Course Outcomes:

CO1: Students will be able to describe the contemporary issues in accounting.

CO2: Students will be able to summarise the models of Inflation Accounting

CO3: Students will be able to interpret the international dimensions of accounting

CO4: Students will be able to compare new concepts of accounting

CO5: Students will be able to apprise and evaluate real-world cases in corporate social accounting and valuation.

CO6: Students will be able to formulate financial reports.

Course Contents:

UNIT-I

Human Resource Accounting: Meaning and definition of HRA, Importance and objectives of HRA, Limitations of HRA, Need of HRA for managers, Models of HRA. Social Accounting: Meaning and Definition of Social Accounting, Theories of Social accounting, Need and importance of Social Accounting, Current position of Social Accounting in India, Role of corporate Social Accounting.

UNIT-II

Inflation Accounting: Meaning and definition of Inflation Accounting, Various models of Inflation Accounting, Methods of Inflation Accounting. Brand Accounting: Overview of Brand Accounting, Importance and role of Brand accounting in corporate, various issues and challenges associated with Brand Accounting.

UNIT-III

International Dimensions of accounting and control: Multinational enterprise, Inter- nationalization of capital markets, Internationalization of accounting profession. Operational and conceptual issue. Foreign currency translations, methods and practices.

UNIT-IV

New Dimension of Accounting: Meaning of GAAP, Introduction to IFRS, Overview of IFRS, Comparative position of IFRS and Indian GAAP, Government influences on financial reporting. Introduction to forensic accounting, environmental accounting.

Suggested Readings:

1. M. David Haddock, John Price, & Michael Farina, *College Accounting: A Contemporary Approach*, Tata McGraw Hill.
2. Steven M. Bragg, *Interpretation and Application of Generally Accepted Accounting Principles 2011*, John Wiley.
3. Ken Marshall, Steve Arnold, *IFRS Conversion: Issues, Implications, Insights*, John Wiley.
4. Clifton, R., *Brands and Branding*, John Wiley.
5. Teng, *Financial Accounting*, Asian Book Pvt. Limited

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MCOM/GEN/3/DSC2/FM	Financial Restructuring and Valuation
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The course aims at providing an in-depth understanding of all aspects affecting and arising out of Corporate & Financial Restructuring and Valuation, stressing upon and dealing exhaustively with key concepts, legislative aspects and procedures.*

Course Outcomes:

CO1: Students will be able to define the concepts and terminologies of financial restructuring.

CO2: Students will be able to summarise the theories underlying corporate restructuring and business valuation.

CO3: Students will be able to interpret the regulatory environment governing financial restructuring and valuation.

CO4: Students will be able to compare different valuation models.

CO5: Students will be able to apprise and evaluate real-world cases in corporate restructuring and valuation.

CO6: Students will be able to formulate a plan to successfully liquidate or reorganize a business.

Course Contents:

UNIT 1

Corporate Restructuring: Meaning, Need, Scope and Modes of Restructuring; Historical Background; Emerging Trends; Planning, Formulation and Execution of Various Corporate Restructuring Strategies - Mergers, Acquisitions, Takeovers, Disinvestments and Strategic Alliances, Demerger.

UNIT II

Financial Restructuring: concept & need for Financial Restructuring, Reduction of Capital; Reorganization of Share Capital; Buy-Back of Shares – Concept and Necessity; Procedure for Buy-Back of Shares by Listed and Unlisted Companies. Legal, Economic, Taxation and Financial aspects of Mergers and Amalgamation

UNIT III

Valuation: Meaning, Objective & Scope of Valuation; Principles of Valuation; Preliminary Work relating to Valuation; Valuation Standards and Valuation Analysis; Valuation Techniques; Historical Earnings Valuation; Asset Based Valuation; Market Based Valuation.

UNIT IV

Regulatory Aspects of Valuation: Legal & Regulatory aspects related to Valuation such as SEBI Regulations/ RBI Regulations; Income Tax Implications; Valuations for Different Strategies- Merger & Acquisition, Demerger, Slump Sale, Liquidation and Corporate Insolvency, Internal & External Restructuring, Valuation of Intangibles, Valuation of Securities

Suggested Readings:

1. Corporate Restructuring Valuation and Insolvency by The Institute of Company Secretaries of India
2. Ray, *Mergers and Acquisition Strategy, Valuation and Integration*, PHI
3. Ramaiya, A., *Guide to Companies Act*, LexisNexis Butterworths, Wadhwa, Nagpur
4. Sampath, K., R., *Mergers /Amalgamations, Takeovers, Joint Ventures, LLPs and Corporate Restructure*, Snow White Publications
5. *Handbook on Mergers Amalgamations and takeovers* by The Institute of Company Secretaries of India

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MCOM/GEN/3/DSC3/FM	Financial Statement Analysis
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *This course is designed to prepare the students to interpret and analyze the financial Statement for effective financial decisions.*

Course Outcomes:

CO1: Students will be able to define the terminologies related to financial statement analysis.

CO2: Students will be able to explain key elements of making financial statement.

CO3: Students will be able to apply techniques used in financial analysis.

CO4: Students will be able to appraise financing and investing activities of corporate houses.

CO5: Students will be able to evaluate credit problems using quantitative techniques.

CO6: Students will be able to formulate policies for Accounting and Financial Analysis.

Course Contents:

UNIT-I

Overview of financial statement analysis: Types and components Business analysis, basis of analysis, financial statement analysis preview, relevance to business decisions and steps in analyzing financial statements; Financial reporting and analysis: Reporting environment, Form of the financial statements, IFRS framework for the preparation and presentation of financial statements.

UNIT-II

Accounting analysis: Analysis of financing activities; Analysis of investing activities; Analyzing investing activities and inter-corporate investments; Analysis of operating activities and income: understanding method of revenue and expenses.

UNIT-III

Financial analysis: Analysis of cash flow statements; Return on invested capital and profitability analysis; Prospective analysis: Projection process, projecting financial statements, application of prospective analysis in the residual income, valuation model and trends in value drivers; Short term liquidity analysis: working capital analysis, operating activity analysis.

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UNIT-IV

Credit analysis: Liquidity and working capital, and capital structure and solvency; Equity analysis and valuation: Earning persistence, earning based equity valuation and earning power and forecasting for valuation; Building blocks of financial statement analysis

Suggested Readings:

1. Wild, John J, Subramanyam, K.R. and Halsey Robert E., *Financial Statement Analysis*, Ninth edition, McGraw-Hill, New Delhi.
2. Bernstein, Leopold A., *Financial Statement Analysis*, McGraw-Hill International.
3. Foster, George. *Financial Statement Analysis*, Prentice Hall.
4. Penman, Stephen H. *Financial Statement Analysis and Security Valuation*, McGraw-Hill International
5. Stickney, Clyde P. and Brown, Paul R. *Financial Reporting and Statement Analysis*, The Dryden Press.
6. Hampton, John. J., *Financial Decision Making*. Prentice Hall of India Pvt. Ltd., New Delhi.
7. Levy. H. and Sarnat H., *Capital Investment and Financial Decision*, Englewood Cliffs, Prentice Hall Inc.
8. Van Horne, James C. *Financial Management and Policy*. Englewood Cliffs, Prentice hall of India.

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MCOM/GEN/3/DSC4/FM	Security Analysis
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to impart knowledge to students regarding the theory and practice of Security Analysis.*

Course Outcomes:

CO1: Students will be able to describe the environment and working of capital markets.

CO2: Students will be able to discuss and differentiate different financial assets and their holding motives

CO3: Students will be able to demonstrate the processes of calculating risk and return of financial assets

CO4: Students will be able to able to appraise the processes of doing fundamental and technical analysis

CO5: Students will be able to judge the trends in the stock markets.

CO6: Students will be able to develop a reasoned argument for security selection and investment choices

Course Contents:

UNIT-I

The Investment Environment - Meaning and objective of investment, investment vs. gambling and speculation, investment alternatives, investment process, concept of return and risk.

UNIT-II

Security Analysis – Fundamental analysis: economic analysis, industry analysis and company analysis. Technical analysis: assumptions Dow theory, chart patterns, moving averages and market indicators. Efficient market theory: weak form hypothesis, semi-strong form hypothesis and strong form hypothesis.

UNIT-III

Fixed Income Securities - Bond fundamentals: bond characteristics, pricing and yields Valuation of fixed income and variable income securities

UNIT-IV

Indian Security Market - New issue market, secondary market: SEBI, NSE, BSE and market indices. Recent trends in Indian and international stock markets, exposure to leading business web portals like www.moneycontrol.com, www.bloomberg.com etc.

Suggested Readings:

1. Reilly, Frank K. And Brown, Keith C., *Investment Analysis and Portfolio Management*, South-Western Cengage Learning India Pvt. Ltd.
2. Bodie, Z., Kane, A. and Marcus, A., *Investments*, McGraw-Hill.
3. Fischer, Donald E. and Jordan, Ronald J., *Security Analysis and Portfolio Management*, Prentice Hall of India.
4. Sharpe, William F. et al, *Investment*. New Delhi, Prentice Hall of India.
5. Fuller, Russell J. and Farrell, James L., *Modern Investment and Security Analysis*, New York, McGraw Hill.
6. Alexander, Gordon J. and Bailey, Jeffery V., *Investment Analysis and Portfolio Management*, Dryden Press, Thomson Learning
7. Machiraju, H. R., *Indian Financial System*, Vikas Publishing House.

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MCOM/GEN/3/DSC5/FM	Foreign Exchange Management
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *To acquaint the students with the mechanism of the foreign exchange markets, measurement of the foreign exchange exposure, and hedging against exposure risk. Upon successful completion of this paper, Students should expect to learn the nature and purposes of foreign exchange management under the new financial order evolving higher degree of vulnerability in a highly borderless financial world.*

Course Outcomes:

- CO1:** Students will be able to state appropriate formats and technologies to financial communication.
- CO2:** Students will be able to identify market conventions on exchange rate quotation and correctly calculate those quotations.
- CO3:** Students will be able to apply information within the global financial environment of foreign exchange to solve problems and make informed decisions.
- CO4:** Students will be able to appraise forward exchange rates given spot exchanges rates and rationale behind it.
- CO5:** Students will be able to evaluate the problems of dealing in foreign currency and the advantages and disadvantages of overseas funding.
- CO6:** Students will be able to develop an integrative understanding of the foreign exchange market and the relationships between interest rates, spot and forward rates and expected inflation rates.

Course Contents:

UNIT-I

Foreign Exchange Market: Function and Structure of the FOREX markets, Foreign exchange market participants, Types of transactions and Settlements Dates, Exchange rate quotations, Nominal, Real and Effective exchange rates, and Determination of Exchange rates in Spot markets. Exchange rates determinations in Forward markets. Exchange rate behavior-Cross Rates Arbitrage profit in foreign exchange markets, Swift Mechanism.

UNIT-II

International Parity Relationships & Forecasting Foreign Exchange rate:- Measuring exchange rate movements-Exchange rate equilibrium – Factors effecting foreign exchange rate- Forecasting foreign exchange rates .Interest Rate Parity, Purchasing Power Parity & International Fisher effects.

UNIT-III

Foreign Exchange exposure:-Management of Transaction exposure (**Case Study: Airbus Dollar Exposure**); Management of Translation exposure- Management of Economic exposure (**Case study: Exporter's/Importer's Position: Hedge or Hedge Not**).

UNIT-IV

Foreign exchange risk Management: Hedging against foreign exchange exposure – Forward Market- Futures Market- Options Market- Currency Swaps-Interest Rate Swap. Cross currency Swaps- Hedging through currency of invoicing- Hedging through mixed currency invoicing.

Suggested Readings:

1. Eun and Resnick, *International Financial Management*, Tata McGraw Hill.
2. Eiteman, Moffett and Stonehill, *Multinational Business Finance*, Pearson.
3. Jeff Madura, *International Corporate Finance*, Cengage Learning.
4. Alan C. Shapiro, *Multinational Financial Management*, Wiley India
5. Apte, P. G *International Financial Management*, TMH.
6. Maurice Levi *International Finance*, Routledge.
7. Paul Einzip, *A Textbook on Foreign Exchange*
8. Paul Roth, *Mastering Foreign Exchange and Money Markets*, Pitman.

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MCOM/GEN/3/DSC6/FM	Risk Management and Insurance
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to impart knowledge to students regarding the techniques of measurement and control of risk.*

Course Outcomes

CO1: Students will be able to define the basic concepts of Insurance and Risk management

CO2: Students will be able to understand and comprehend the regulatory environment of Insurance

CO3: Students will be able to apply the knowledge in making suitable decisions

CO4: Students will be able to appraise the role of Insurance in Risk Management.

CO5: Students will be able to evaluate different forms of insurance that are prevailing in practice

CO6: Students will be able to develop products for life, general and health insurance.

Course Contents:

UNIT-I

Introduction to risk management: The Concept of Risk, Risk v/s Uncertainty, Classification of risk; Major Personal Risks and Commercial Risks; objectives of Risk Management, steps in the Risk Management Process; Techniques of managing Risk

UNIT-II

Insurance and Risk: meaning and characteristics of Insurance, Insurable risk characteristics, Adverse selection, Types of Insurance, Benefits and costs of Insurance to Society, Enterprise Risk Management, Insurance Market Dynamics, Financial Analysis in Risk management Decision Making

UNIT-III

The evolution and growth of Life Insurance, various types of insurance; Principles of insurance; Insurance Contracts, Insurance Company Operations, leading Insurance companies in India, Role of IRDA;

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UNIT-IV

Life Insurance: Types of Life Insurance, Life Insurance Contractual Provisions, Buying Life Insurance, The Liability Risk, Auto Insurance, Home Insurance, Health Insurance, Group and Pension Insurance Policies

Suggested Readings:

1. Emmett J. Vaughan, *Risk Management*, John Wiley & Sons, Inc.
2. Rejda, G.E. & McNamara, J.M., *Principle of Risk Management & Insurance*, Parson
3. A. Suryanarayana, *Risk Management Models: A Primer*, ICFAI Reader.
4. Marshall Johon F. & Bansal, V. K., *Financial Engineering*, PHI Learning.
5. Watsham Terry J., *Futures and Options in Risk Management*, Thomson Learning
6. Karam Pal, Bodla & Garg, M.C., *Insurance Management*, Deep & deep Publications, New Delhi

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MARKETING AREA

Kuntur | A | Boale | IS | Skundu

MCOM/GEN/3/DSC1/MM	Marketing of Services
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: The aim of this paper is to explicate the cutting edge service concepts to the students through bridging the gaps between theory and real world by incorporating practical management applications.

Course Outcomes:

- CO1:** Students will be able to relate service and technology.
- CO2:** Students will be able to classify services and recognize service challenges.
- CO3:** Students will be able to use marketing research as a tool to understand customers and to deploy employees for service delivery.
- CO4:** Students will be able to examine the reasons of service failure and implementing strategies to recover it.
- CO5:** Students will be able to evaluate delivery and performance of services.
- CO6:** Students will be able to construct service design and standards.

Course Contents:

UNIT I

Introduction to Services: Service and Technology, Goods versus Services, Service Marketing Mix, Gap model of Services, important service industries-Hospitality and Tourism, Transportation, Telecom, Banking and Insurance, Education and Entertainment, Healthcare. Service classification and challenges in Service Business.

UNIT II

Focus on the Customer: Consumer behaviour in Services, Customer Expectation of Services, and Customer perception of services Elements in an effective services marketing research programme, Building customer relationship, Relationship development strategies, Reasons of Service failure, Service recovery and strategies.

UNIT III

Aligning Service design and standards: Challenges of Services Innovation and design, new service development process Service Blueprinting, Customer-defined service standards and its types,

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Physical evidence and types of services cape, Strategic roles of services cap;

UNIT IV

Delivering and performing services: Employees role in service delivery, Customers role in-service delivery, Delivering services through intermediaries and electronic channels, Strategies for matching capacity and demand, Key service communication challenges, Approaches to pricing services, Financial and Economic impact of services.

Suggested Readings:

1. Zeithaml, V., Bitner, M.J., Gremler, D.D.&Pandit, A., *Service Marketing*. McGraw Hill.
2. Lovelock, C., Wirtz, J.&Chatterjee, J., *Services Marketing*. Pearson Education.
3. Srinivasan, *Service marketing: Indian Context*, PHI
4. Swartz, T., Iqobucci, D., *Handbook of Service Marketing and Management*, Sage Publication

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MCOM/GEN/3/DSC2/MM	Consumer Behaviour
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The basic objective of this course is to develop an understanding about the consumer decision making process and its applications in marketing function of firms.*

Course Outcomes:

- CO1:** Students will be able to define various terms associated with the field of consumer behaviour.
- CO2:** Students will be able to explain different components of consumer behaviour.
- CO3:** Students will be able to interpret the impact of consumer behaviour while framing marketing strategies.
- CO4:** Students will be able to distinguish the individual and group aspects of consumer behaviour for devising marketing strategy.
- CO5:** Students will be able to select the most suitable consumer behaviour for understanding consumer psyche.
- CO6:** Students will be able to design a comprehensive marketing strategy based on consumer behaviour.

Course Contents:

UNIT – I

Consumer Behaviour- Introduction to consumer behaviour; Its Roots in Various Disciplines, Interrelationship between Consumer Behaviour and Marketing Strategy, Consumer Research; Process, Research Methods & Tools, Types and its Relevance.

UNIT – II

Consumer as an Individual -Consumer Needs and Motivation; Goals, Dynamics of Motivation, Measurement of Motives, Personality and Consumer Behaviour; Nature, Theories of Personality and Self Concept, Consumer Perception and Information Processing; Dynamics of Perception, Consumer Imagery, and Perceived Risk, Learning & Consumer Involvement; Meaning, Behavioural & Cognitive Learning Theories and application to marketing, Consumer Attitude; Meaning, Attitude Formation & Change, Relationship in Behaviour & Attitude Formation, and Structural Models.

The image shows five handwritten signatures in blue ink, arranged horizontally. From left to right, they appear to be: 'Kuntal', 'A', 'Bade', 'S', and 'Skundu'.

UNIT – III

Group Dynamics and Consumer Behaviour - Reference Groups; Meaning, Types, Affects, Relevance and Applications, The Family; Functions, Decision Making and Family Life Cycle, Social Class; Meaning, Types of Status, Lifestyle Profiles and Mobility in Social Classes, Measurements, Influence of Culture; Characteristics, Measurements & Core Values of Culture, Sub Cultural Aspects on Consumer' Mind Set; Meaning, Types & Understanding of Multiple Sub cultural Membership Interaction & Influence.

UNIT – IV

Consumer Decision Making Process- Personal Influence and the Opinion Leadership; Meaning and Dynamics of Opinion Leadership Process, Measurement of Opinion Leadership, Diffusion of Innovations; Process of Diffusion & Adoption, Profile of Consumer Innovator, Consumer Decision Making; Meaning of Decision, Levels of Decision Making. Consumer Behaviour Models, Current trends and ethical issues in Consumer Behavioural Studies.

Suggested Readings:

1. Assael, H., *Consumer Behaviour and Marketing Action*, Asian Books Private Limited, New Delhi.
2. Engel, J. F., Kollat, D.T., Roger D. Blackwell, R.D. '*Consumer Behaviour*, Holt McDougal.
3. Hawkins, D., Mothersbaugh D., *Consumer Behavior: Building Marketing Strategy*, McGraw-Hill Education.
4. Schiffman, L. and Kanuk, L., *Consumer Behavior*, Prentice Hall.
5. Schiffman, L., & Wisenblit, J., *Consumer Behaviour*, Prentice Hall PTR.
6. Loudon, *Consumer Behavior: Concepts and Applications*, Tata McGraw-Hill Education Private Limited, Noida, Uttar Pradesh, India.

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MCOM/GEN/3/DSC3/MM	Integrated Marketing Communication
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The aim of this paper is to acquaint the students with the concepts, techniques and developing skills regarding application of effective advertising programmes.*

Course Outcomes:

- CO1:** Students will be able to define various terms associated with the field of integrated marketing communication.
- CO2:** Students will be able to explain the components of integrated marketing communication.
- CO3:** Students will be able to interpret the impact of business environmental factors on the marketing communication strategy.
- CO4:** Students will be able to distinguish the utility of various promotional tools.
- CO5:** Students will be able to evaluate the effectiveness of marketing communication strategy.
- CO6:** Students will be able to develop a marketing communication strategy.

Course Contents:

UNIT-I

The growth of advertising and promotion, the evolution of IMC and a contemporary perspective, Promotional Mix: a tool for IMC, Analysis of the communication process, Role of IMC in the marketing process, Developing Marketing Planning Programme, Role of Advertising and Promotion.

UNIT-II

Participants in the IMC process: The clients Role, Role of advertising agencies, Types of Ad agencies, Agency compensation, evaluating agencies; An Overview of Consumer Behavior: Consumer decision-making process, Environmental influences on consumer behavior, Alternate approaches to consumer behavior

UNIT-III

Analyzing the communication process: A basic model of Communication, cognitive response approach, elaboration likelihood model; Source message and channel factors; Objectives and budgeting for IMC programmes: Establishing objectives and budgeting for promotional programmes; DAGMAR: An approach to setting objectives, problems in setting objectives, Establishing and allocating the

promotional budget; Developing the IMC programme: Creative Strategy: Planning & development, Implementation and evaluation.

UNIT-IV

Media planning and Strategy: Developing the media plan, Establishing media objectives, Developing and implementing media strategies, Evaluation and follow-up; Evaluation of media: television & Radio, Evaluation of Print Media: Support Media, Direct Marketing, Direct Selling, The internet and interactive media, sales promotion, public relation, publicity and corporate advertising. Measure the effectiveness of the promotional programme. International advertising and promotion, regulation of advertising and promotion, evaluating the social, ethical and economic Aspects of advertising and promotion

Suggested Readings:

1. Blakeman, R. *Integrated Marketing Communication: Creative Strategy from Idea to Implementation*, Rowman & Littlefield
2. Dutta, K., *Integrated Marketing Communication*, Oxford Higher Education
3. Belch, G. E., Belch, M. A. and Purani, K., *Advertising and Promotion*, McGraw Hill Education.
4. Batra, R., Myers, J. G. and Aaker, A.D. *Advertising Management*, Pearson Education
5. Percy, L. and Elliot, R., *Strategic Advertising Management*, Oxford publishing
6. Sissors, J.Z. and Baron, R.B. *Advertising Media Planning*, McGraw Hill.
7. Jethwaney, J. and Jain, S., *Advertising Management*, Oxford publishing

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MCOM/GEN/3/DSC4/MM	Sales and Distribution Management
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *To provide an understanding of the concepts, attitudes, techniques and approaches required for effective decision making in the areas of Sales and Distribution Management.*

Course Outcomes:

- CO1:** Students will be able to define the concepts of sales management and distribution.
- CO2:** Students will be able to explain the role, functions, and methods of selling and distribution process.
- CO3:** Students will be able to apply the concepts to solve practical sales and distribution problems.
- CO4:** Students will be able to compare different methods used for sales and distribution related decisions.
- CO5:** Students will be able to appraise their sales management skills.
- CO6:** Students will be able to develop the strategies that help in taking strategic decisions.

Course Contents:

UNIT-I

Sales Management: Role of Sales Management in Marketing, Nature and Responsibilities of Sales Management, Modern Roles and Required Skills for Sales Managers. Theories of Selling. Sales Planning: Importance, approaches and process of sales planning; Sales forecasting; Sales budgeting. Sales Organization: Purpose, principles and process of setting up a sales organization; Sales organizational structures; Field sales organization; Determining size of sales force.

UNIT-II

Territory Management: Need, procedure for setting up sales territories; Time management; Routing. Sales Quotas: Purpose, types of quotas, administration of sales quotas. Managing the Sales-force: Recruitment, selection, training, compensation, motivating and leading the sales-force; Sales meetings and contests;

UNIT-III

Control Process: Analysis of sales, costs and profitability; Management of sales expenses; Evaluating sales force performance; Ethical issues in sales management.

UNIT-IV

Distribution Channels: Role of Distribution Channels, Number of Channels, Factors Affecting Choice of Distribution Channel, Channel Behavior and Organization, Channel Design Decision; Channel Management Decisions; Distribution Intensity; Partnering Channel Relationship.

Suggested Readings:

1. Still, Cundiff, Govoni , *Sales Management: Decisions, Strategies & Case*,– Prentice Hall, India.
2. Anderson R, *Professional Sales Management*, Englewood Cliff, New Jersey, Prentice Hall, India.
3. Spiro, Rosann L., Gregory A. Rich, and William J. Stanton, *Management of a Sales Force*, McGraw-Hill Irwin, Boston.
4. Dalrymple, Douglas J., and William L., *Sales Management: Concepts and Cases*, New York, NY: John Wiley and Sons.
5. Panda, T. K., Sahadev , S., *Sales And Distribution Management*, Oxford Publishing, India
6. Hughes, G. David, Daryl McKee, Charles H. Singler, *Sales Management: A Career Path Approach*, Cincinnati, OH: South-Western College Publishing
7. Peppers, D. & Rogers, M., '*The short way to long-term relationships*'. *Sales and Marketing Management*

Important Instructions for the Course Coordinator and the Examiner:

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MCOM/GEN/3/DSC5/MM	Logistics Management
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to enable students understand the importance and dynamics of a firm's physical distribution functions and management of its supply chain.*

Course Outcomes:

- CO1:** Students will be able to recall the terms used in logistics.
- CO2:** Students will be able to describe the importance of logistics.
- CO3:** Students will be able to apply the concepts of logistics for marketing.
- CO4:** Students will be able to appraise the components related to logistics.
- CO5:** Students will be able to evaluate the dynamics of physical distribution functions.
- CO6:** Students will be able to create an efficient logistics system for an organization.

Course Contents:

UNIT-I

Introduction to Logistics Management: Nature, Role, Scope and Evolution of Logistics Management, Operational Objectives of Logistics; Concept of Supply Chain Management; Marketing and it's Interface with Logistics; Total Cost Analysis and Trade off; Concept of Customer Service: Components of Customer Service, Customer Service Cost, Customer Service Measurement; Major Components/Decisions of Logistics Management; Integrated Logistics System; Distribution related issues and Challenges for Logistics.

UNIT-II

Transportation Decisions: Role of Transportation in Logistics, Elements of Transportation Cost, Selection of Transportation Mode, Multi-Decision Areas of Transportation: Containerization, Transportation Network and Tariffs; Third Party Logistics; Inventory Management: Role of Inventory Management in Logistics, Elements of Inventory Costs, Decision Areas of Inventory Management, Techniques of Inventory Control, Economic Order Quantity Under Conditions of Certainty and Uncertainty.

UNIT-III

Modern Concept of Warehousing: Role and Types of Warehouses, Warehouse Functions,

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Planning Warehousing Operations, Site Selection, Warehouse Layout, Operational Mechanism and Automation in Warehousing; Information and Order Processing: Role of Information System in Logistics Management; Order Processing: Nature and Concept, Functions of Order Processing; Elements of Ordering cost.

UNIT-IV

Packaging: Role of Packaging in Logistics, New Emerging Packaging Alternatives, Packaging operations, Factors affecting packaging decisions; Material Handling: Objectives of Material Handling, Material Handling considerations; Equipments for Material Handling, Factors affecting Material Handling decisions. Distribution Control and Performance Evaluation: Integration of Logistics with Distribution System, IT-enabled Distribution and Logistics Management, Distribution Control and Performance Measurement.

Suggested Readings:

1. Bowersox and Others: *Physical Distribution Management*, Tata McGraw Hill, New Delhi.
2. Stern, Louis W. Adel, I.E.L. – Ansary, Annee T. Coughlan: *Marketing Channels*, Prentice Hall, New Delhi.
3. Ballu, Ronald H, *Business Logistics Management*, Englewood Cliffs, New York, Prentice Hall Inc.
4. Martin, Christopher and Gordon Wills: *Marketing Logistics and Distribution Management*
5. Khanna, K.K. *Physical Distribution Management*, Himalaya Publishing House, New Delhi.
6. Lambert, D. et. al., *Strategic Logistics Management*, Tata McGraw Hill, New Delhi.
7. Chopra, S and Meindl, P, *Supply Chain Management- Strategy, Planning and Operation*, Pearson Education.
8. Simchi-Levi, D et al., *Designing and Managing the Supply Chain*, The McGraw Hill Companies
9. Sharma, S, *Supply Chain Management-Concepts, Practices and Implementation*, Oxford University Press.

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MCOM/GEN/3/DSC6/MM	Product and Brand Management
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to impart in depth knowledge to the students regarding the theory and practices of brand management.*

Course Outcomes:

CO1: Students will be able to define basic branding concepts and outline major branding issues.

CO2: Students will be able to identify branding challenges and opportunities.

CO3: Students will be able to apply marketing programme to build brand equity.

CO4: Students will be able to examine and implement different branding programmes.

CO5: Students will be able to evaluate brand performance and evaluating brand extension opportunities.

CO6: Students will be able to design and implement different branding strategies.

Course Contents:

UNIT-I

Branding terminology, basic branding concepts- brand awareness, brand personality, brand image, brand identity, brand loyalty, brand equity, major branding decisions: selecting a brand name, brand extension decision, family versus individual brand names, multiple branding, private versus national branding, importance of branding

UNIT II

Branding challenges and opportunities, concept of brand equity, sources and benefits of brand equity, customer based Brand equity, designing marketing programme to built brand equity, measurement of brand equity, Strategic brand management process, concept of Brand positioning and repositioning, Identifying and establishing brand positioning and values.

UNIT III

Planning and implementing brand marketing programmes, designing marketing programmes,

measuring and interpreting brand performance, Legal aspects of Branding, Copyright, Trademarks and IPR, designing and implementing branding strategies; Brand building and communication, E-Branding, handling brand name changes.

UNIT IV

New products and brand extension, evaluating brand extension opportunities, reinforcing brands, revitalising brands, managing brands over geographic boundaries and market segments, rationale for going international, global marketing programmes- advantage and disadvantage, standardisation versus customisation, global brand strategy. Branding in rural marketing, branding in specific sectors: retail, industrial, service brands

Suggested Readings:

1. Kavin lane Keller, *Strategic Brand Management*, Pearson Education.
2. David A Aaker, *Managing Brand Equity*, New York, Free Press.
3. Don Cowley, *Understanding brands*, Kogan page
4. J.N. Kapferer, *Strategic Brand Management*, Free Press.

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The image shows five handwritten signatures in blue ink, arranged horizontally. From left to right: 1. A signature that appears to be 'Kumar'. 2. A large, stylized letter 'A'. 3. A signature that appears to be 'Bhade'. 4. A signature that appears to be 'S'. 5. A signature that appears to be 'Kundu'.

HUMAN RESOURCE MANAGEMENT AREA

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Boole

AD

Skundu

MCOM/GEN/3/DSC1/HR	Human Resource Planning
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this paper is to develop a conceptual as well as a practical understanding of the students regarding human resource planning in organizations*

Course Outcomes:

- CO1:** Students will be able to recall different terms used in Human Resource Planning.
- CO2:** Students will be able to explain conceptual framework of HRP.
- CO3:** Students will be able to demonstrate the process of HRP.
- CO4:** Students will be able to compare job related techniques.
- CO5:** Students will be able to evaluate practical solutions of problems related to manpower planning in the organization.
- CO6:** Students will be able to develop their own model of HR planning suitable to the organization.

Course Contents:

UNIT-I

Human Resource Planning: Concept, Objectives, Benefits, Problems; Strategic Human Resource Planning; Job Analysis

UNIT-II

Human Resource Planning Process and Action Plans: Human Resource Demand Forecasting: Assessment and Techniques; Human Resource Supply Forecasting: Assessment and Techniques; Action plans for Recruitment and Selection, Separation, Retention, Training and Redeployment

UNIT-III

Productivity Management and Human Resource Planning: Work Study, Method Study, Work Measurement, Job Design, Work Scheduling.

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UNIT-IV

Human Resource Planning in Changing Context: Human Resource Information System; Human Resource Accounting and Audit; Structure of Labor Force and Demographic Changes: Problems and Challenges.

Suggested Readings:

1. Sekhri, A., Human Resource Planning & Audit, Himalya Publishing House
2. Bhattacharyya D.K., *Human Resource Planning*, Excel Books India.
1. Dessler, G., *Human Resource Management*, Prentice Hall of India
2. Rao, V.S.P., *Human Resource Management*, Excel Books
3. Ashwathappa, K., *Text & Cases in Human Resources Management*, Tata McGraw Hill
4. D'Cenzo, David A. and Robbins, S. P., *Human Resource Management*, John Wiley
5. Gomez-Mejia, Luis R., D. B. Balkin, and. Cardy, R. *Managing Human Resources*, Prentice Hall
6. Rothwell, W. J., & Kazanas, H. C., *Planning and Managing Human Resources*, Jaico Publishing House
7. Stevenson, W., *Operations Management*, McGraw Hill

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MCOM/GEN/3/DSC2/HR	Labour Laws
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The course aims to provide an understanding, application and interpretation of the various labor laws and their implications for industrial relations and labor issues.*

Course Outcomes:

CO1: Students will be able to list the labor laws and related terminology.

CO2: Students will be able to explain the importance of various labor legislations.

CO3: Students will be able to apply the knowledge of labor laws in their working organizations.

CO4: Students will be able to appraise the implementation of various labor laws.

CO5: Students will be able to evaluate the practical implementation of various labor laws.

CO6: Students will be able to develop various case laws pertaining to labor issues for corporate sector.

Course Contents:

UNIT-I

Introduction, Emergence, Need and Objectives of Labour Laws; Principles of Modern Labour Laws; Classification of Labour Laws; ILO, Indian Constitution and Labour Legislations.

UNIT-II

Regulative Labour Laws: Trade Union Act; Industrial Dispute Act; Factory Act.

UNIT-III

Wage-Related Labour Laws: Payment of Wages Act; Minimum Wages Act; Payment of Bonus Act; Payment of Gratuity Act.

UNIT-IV

Social Security Labour Laws: Workmen's Compensation Act; Employees' State Insurance Act; Employees Provident Fund and Miscellaneous Provisions Act.

Suggested Readings:

1. Singh, B.D., *Labour Laws for Managers*, Excel Books
2. Malik, P L., *Handbook of Industrial Law*, Eastern Books.
3. Kapoor, N.D., *Mercantile Law*, Sultan Chand and Sons.
4. Taxmann's Labour Laws, Taxmann Publishing Pvt. Ltd.
5. Srivastava, S. C., *Industrial Relations and Labour Law*, Vikas Publishing House.
6. Latest Bare Act of each Act.

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MCOM/GEN/3/DSC3/HR	Management of Industrial Relations
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *Organizational efficiency and performance are intricately interlinked with industrial relations. This course attempts to appreciate the conceptual and practical aspects of industrial relations at the macro and micro levels.*

Course Outcomes:

CO1: Students will be able to describe the basic concepts of Industrial Relations.

CO2: Students will be able to explain the importance of organized trade unions.

CO3: Students will be able to apply the process of collective bargaining between managers and workers.

CO4: Students will be able to appraise the process of resolving industrial disputes in industrial organizations.

CO5: Students will be able to evaluate and compare the industrial relations scenario of different countries.

CO6: Students will be able construct cases of industrial disputes/ relations of corporate sector.

Course Contents:

UNIT-I

Industrial Relations: Concept, evolution, significance, perspectives and organization; Anatomy of industrial relations; Industrial relations and the State; Trade Unions: Concept, significance, types, approaches and objectives, Problems of trade unions in India and recommendations of National Commission on labor for strengthening of trade unions.

UNIT-II

Collective Bargaining: concept, importance and process of bargaining; Participative Management: Forms of worker's participation in management; Tripartite and bipartite bodies; Standing order and Grievance procedure; Code of Discipline.

UNIT-III

Industrial Disputes: Conciliation and Board of conciliation; Arbitration: types and evaluation; Adjudication: Three tier System, Model principles for reference of dispute to adjudication.

UNIT-IV

Modern and international Scenario of Industrial relations: Industrial Relations and Technological Change; Industrial Relations and HRD; ILO and Industrial Relations; Legal Framework of Industrial Relations; Industrial Relations systems in India, UK, USA and Japan.

Suggested Readings:

1. Mamoria & Manoria, *Dynamics of Industrial Relations*; Himalaya Publishing House.
2. Niland, J R., *The Future of Industrial Relations*, Sage.
3. Davar; R.S., *Personnel Management and Industrial Relations*; Vikas Publishing House Pvt Ltd.
4. Manappa, A., *Industrial Relations*; Tata McGraw Hill Publishing Company Ltd.
5. Dwivedi; R.S., *Managing Human Resources and Industrial Relations*. Galgotia Publishing Company.
6. Srivatava; S.C., *Industrial Relations and Labour Laws*, Vikas Publishing House Pvt Ltd.
7. Venkata Ratnam, C.S., *Industrial Relations*; Oxford University Press.
8. Sen, R. *Industrial Relations in India*; Macmillan India Ltd.

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MCOM/GEN/3/DSC4/HR	Leadership Dynamics
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The purpose of this course is to enhance the leadership skills of students and to develop insight into interpersonal dynamics through sensitivity training and experience based methods of learning.*

Course Outcomes:

CO1: Students will be able to recall different terms used in leadership dynamics.

CO2: Students will be able to explain conceptual framework of leadership dynamics.

CO3: Students will be able to apply various leadership theories in practical life.

CO4: Students will be able to compare the leadership styles practised by famous personalities.

CO5: Students will be able to evaluate various contemporary issues in leadership.

CO6: Students will be able to develop their own particular style of leadership.

Course Contents:

UNIT-I

Leadership Dynamics: Concept, Leadership and Management, Leadership and Power, Successful Leadership versus Effective Leadership.

UNIT-II

Leadership Approaches: Trait Approach, Skills Approach, Behavioral Approach, Situational Approach, Contingency Approach, Path Goal Approach.

UNIT-III

Leadership Styles: Autocratic, Democratic, Participative, Supportive, Free- rein; Comparative Analysis of Leadership Styles, Building Effective Leadership Styles, Leadership Styles of Famous Personalities in general perspective and in managerial perspective.

UNIT-IV

Contemporary Issues in Leadership: Charismatic Leadership, Women Leadership, Multicultural

Leadership, Team Leadership, Ethics in Leadership, Servant Leadership, Transactional and Transformational leadership.

Suggesting Readings:

1. Northouse, G. P., *Leadership: Theory and Practice*, Sage Publications.
2. Yukl, G., *Leadership in Organizations*, Pearson.
3. Hersey, P., Blanchard, K.H. and Johnson, D.E., *Management of Organisational Behaviour*, PHI.
4. Daft, L. R., *The Leadership Experience*, Cengage Learning.
5. Haldar, U. K., *Leadership and Team Building*, Oxford University Press.
6. Tripathi, D. K., *Team Building and Leadership*, Himalaya Publishing House.

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MCOM/GEN/3/DSC5/HR	Compensation Management
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The course is designed to promote understanding of issues related to the compensation or rewarding human resources in the corporate sector, public services and other forms of organizations and to impart skills in designing, analyzing and restructuring reward management systems, policies and strategies.*

Course Outcomes:

CO1: Students will be able to recall different terms used for compensation management.

CO2: Students will be able to explain various compensation management techniques.

CO3: Students will be able to demonstrate the process of fixing compensation for various employees of organisations.

CO4: Students will be able to compare compensation practices of various companies.

CO5: Students will be able to evaluate compensation practices of multinational companies.

CO6: Students will be able to develop compensation plans for managers of middle scale organisations.

Course Contents:

UNIT-I

Compensation Management- Concept, objectives, nature, types, compensation responsibilities, compensation philosophies & approaches.

UNIT-II

Bases for pay- traditional bases, incentive pay and person-focused pay; Pay for Performance, Competency Based Pay, Team rewards; Designing Compensation System- internal alignment (job analysis and job evaluation), external competitiveness and individual contribution.

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UNIT-III

Employee Benefits- legally required benefits, discretionary benefits and key issues in employee benefits; Compensating Executives, Laws relating to Compensation.

UNIT-IV

Contemporary Strategic Compensation Challenges- compensation practices of multinational corporations and working of different institutions related to reward system like wage boards, pay commissions.

Suggested Readings:

1. Martocchio, Joseph J, *Strategic Compensation: A Human Resource Management Approach*, Pearson Education.
2. Milkovich and Newman, *Compensation*, Tata McGraw-Hill.
3. Armstrong, Michel and Murlis, Helen, *Reward Management: A Handbook of Salary Administration*, Kogan Page.
4. Bhattacharya, M.S.& Sengupta, N., *Compensation Management*, Excel Books

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MCOM/GEN/3/DSC6/HR	Business Negotiations
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *To develop a set of conceptual frameworks that will help students to better analyze negotiations in general and master the business negotiation skills.*

Course Outcomes:

- CO1:** Students will be able to describe the fundamentals of business negotiation.
- CO2:** Students will be able to explain the power of business negotiation in resolving differences across personalities, gender and culture.
- CO3:** Students will be able to apply the process of business negotiation in resolving organisational conflicts.
- CO4:** Students will be able to compare negotiation strategies in resolving organisational conflicts.
- CO5:** Students will be able to appraise the negotiation strategies for resolving differences at individual and organisational levels.
- CO6:** Students will be able to develop innovative negotiation strategies for resolving conflicts.

Course Contents:

UNIT-I

Negotiation Fundamentals: the Nature of Negotiations and conflicts; Distributive and Integrative Negotiation; Negotiation Strategy and Planning: Unilateral vs. Bilateral Strategies, Planning Process, Negotiation Sub Processes: Perception, Cognition, Emotions, and Communication.

UNIT-II

Negotiation Power: Influence Process, Negotiation Contexts: Relationships in Negotiation; Forms of relationships; Key elements in managing relationships, Agents, Constituents and Audiences: Coalitions, Standards for coalition decision making, Multiple Parties and Teams

UNIT-III

Individual Differences I: Personality and Negotiations, Individual Differences II: Gender and Negotiations, Negotiation across Cultures: International and Cross Cultural Negotiations, Culture and negotiation, Managerial and research perspective on cross cultural negotiation.

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UNIT-IV

Resolving Differences: Managing Negotiation Impasses; Nature of impasses, resolving impasses; Negotiation Mismatches: Managing the shadow negotiation and social contract, Ury's Breakthrough Approach; Managing difficult negotiation: Third Party Approaches; Ethics in Negotiation.

Suggested Readings:

1. Lewicki Roy J. ,Saunders David M. & Barry Bruce,*Negotiations*, Tata McGraw Hill.
2. Brett,J.M., *Negotiating Globally*, Francisco, Josseys-Bass.

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FOURTH SEMESTER

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MCOM/GEN/4/CC13	Strategic Management
Time: Three Hours	Maximum Marks=100 (External = 100 Marks, Theory = 50 Marks and Practical =50 Marks)

Course Objective: *This course exposes students to formulate strategies for the growth and development of economy.*

Course Outcomes:

- CO1:** Students will be able to outline the type of decisions taken at different levels of organisation.
- CO2:** Students will be able to explain the process of strategic decision making in an organisation.
- CO3:** Students will be able to apply various tools to assess business environment.
- CO4:** Students will be able to differentiate among various stages of strategic management starting from strategy formulation to its evaluation.
- CO5:** Students will be able to evaluate the strategy which best fits in achieving the organisational goals.
- CO6:** Students will be able to develop a framework of how an organisation actually works by developing policies and strategies.

Course Contents:

UNIT-I

Strategic Management - An Introduction – Evolution of business policy as a discipline – Concept of strategic management – Characteristics of strategic management – Defining strategy, strategy formulation – Stakeholders in business – Vision, mission and purpose

UNIT-II

Strategic analysis and choice – Environmental Threat and Opportunity Profile (ETOP)- Organizational

The image shows five handwritten signatures in blue ink, arranged horizontally. From left to right: 1. A signature that appears to be 'Kuntaw'. 2. A large, stylized letter 'A'. 3. A signature that appears to be 'Bade'. 4. A signature that appears to be 'S'. 5. A signature that appears to be 'Skundu'.

capability Profile- Strategic Advantage Profile – Corporate Portfolio Analysis – SWOT Analysis- Synergy and Dysergy

UNIT-III

GAP Analysis – Porter’s Five Forces Model of Competition – Me Kinsey’s 7s Framework GE 9 Cell Model – Distinctive Competitiveness – Selection of matrix, change Drivers

UNIT-IV

Strategy Evaluation – Importance – Symptoms of Malfunctioning of strategy – Organization anarchies – Operations Control and Strategic Control – Measurement of Performance – Analyzing variances – Role of organizational systems in evaluation

Suggested Readings:

4. Kazmi, Azhar, *Business Policy*. 2nd ed.
5. Thompson Jr. Arthur A. and Strickland, A.J. *Strategic Management- Concept and Cases*. 12th ed.
6. Ramaswamy, *Strategic Planning, formulation of Corporate Strategy*.
7. Subba Rao, P., *Business Policy and Strategic Management*.
8. Srivastava, R.M. *Management Policy and Strategic Management concepts, Skills and Practices*.

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MCOM/GEN/4/CC14	E-Commerce
Time: Three Hours	Maximum Marks=100 (External = 100 Marks, Theory = 50 Marks and Practical =50 Marks)

Course Objective: *This course exposes students to environment for E-commerce and developing application skills for the same.*

Course Outcomes:

CO1: Students will be able to outline the type of decisions taken at different levels of organisation.

CO2: Students will be able to explain the process of strategic decision making in an organisation.

CO3: Students will be able to apply various tools to assess business environment.

CO4: Students will be able to differentiate among various models of E-Commerce.

CO5: Students will be able to evaluate the strategy which best fits in achieving the organisational goals by ways of e-commerce.

CO6: Students will be able to develop a framework of how an organisation actually works by e-tools.

Course Contents:

UNIT-I

Technology and Infrastructure for E-Commerce: Framework of E-commerce; Network Infrastructure for E-Commerce – Market Forces Influencing I-way, Network Access Equipment, Public Policy Issues Shaping the I-way; EDI - Applications in Business, Legal, Security and Privacy Issues of EDI; Components of EDI Standards, ASC X12 and EDIFACT.

UNIT-II

E-Commerce and Retailing: Changing Retail Industry Dynamics, Mercantile Models from the Consumer's Perspective, Management Challenges in Online Retailing.

Intranets and Customer Asset Management: Basics of Customer Asset Management, Online Sales Force, Online Customer Service and Support, Technology and Marketing Strategy.

UNIT-III

Intranets and Manufacturing: Integrated Logistics, Agile Manufacturing, Emerging Business Requirements, Manufacturing Information Systems, Intranet-based Manufacturing, Logistics Management. E-Commerce and Online Publishing: Why Online Publishing, Online Publishing approaches, Advertising and Online Publishing. E-Commerce and Banking: Changing Dynamics in the Banking Industry, Home Banking Implementation Approaches, Management Issues in Online Banking.

UNIT-IV

Intranets and Corporate Finance: An Introduction, Financial Systems, Financial Intranets, Software Modules in Financial Information Systems, Human Resource Management Systems, Size/Structure of Financial Software Market.

Lab: Each student is required to develop at least one application of e-commerce.

Suggested Readings:

2. Kalakota & Whinston, *Electronic Commerce: A Manager's Guide*, Pearson Education.
3. Greenstien & Vasarhelyi, *Electronic Commerce: Security, Risk Management and Control*, Tata McGraw Hill.
4. Joseph, *E-Commerce: An Indian Perspective*, Prentice Hall of India.
5. Turbon, *et. al.*, *Electronic Commerce: A Managerial Perspective*, Pearson Education.

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FINANCE AREA

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MCOM/GEN/4/DSC1/FM	Management of Banks and Financial Institutions
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to analyze the major concepts, theories and principles of banking and financial institutions in logical and critical manner.*

Course Outcomes:

- CO1:** Students will be able to recall the evolution and current state of Indian Financial System and banking Industry
- CO2:** Students will be able to describe the working and management of Commercial Banks in India
- CO3:** Students will be able to interpret the significance of being most tightly regulated industries in the world
- CO4:** Students will be able to appraise the regulatory structure within which the banking system operates
- CO5:** Students will be able to critically analyze the pivotal role of banking in a financial system
- CO6:** Students will be able to construct and analyze different challenges faced by banks and financial institutions

Course Contents:

UNIT 1

Indian Financial System: Introduction, Evolution and growth of banking system in India, Bank Market structure in India, Banking sector reforms (The Narsimham Committee and The Raghu Ram Rajan Committee), Recent Innovations and development in Indian Banking.

UNIT II

Management of Commercial Banks in India: Functions of Bank, Sources of Bank Funds, Credit Management-Cardinal principles of sound bank lending, Formulating loan policy, Factors influencing loan policy; Investment Management-Nature and significance of investment management in commercial banks, Fundamental principles of security investment by commercial bank.

UNIT III

Capital Adequacy in Indian Banks: Functions of capital funds in commercial banks, Capital adequacy –Basel III norms on capital adequacy in Indian commercial banks; Concept of ALM :

Objectives, Functions, Process, Measurement and Management of Risks, Concept of NPAs.

UNIT IV

Management of Financial Institutions: Financial Institutions, their role in economic development, challenges and opportunities; NABARD, IFCI, SIDBI, NHB– Introduction and their operational policies; Role of RBI; Insurance Industry in India, Mutual Funds, Micro Finance Institutions (MFIs); Current issues and future challenges in Management of Banks and financial Institutions.

Suggested Readings:

1. Srivastava, R.M. & Nigam, D., *Management of Indian Financial Institutions*, Himalaya Publishing House.
2. Khan, M. Y. *Indian Financial System*, Tata McGraw Hill.
3. Suresh, P. & Paul, J., *Management of Banking and Financial Services*, Pearson
4. Singh, S.P.N., *Management of Banking and Financial Institutions*, Centrum Press
5. *Principles & Practices of Banking by Indian Institute of Banking and Finance*, Macmillan Publications

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MCOM/GEN/4/DSC2/FM	Financial Markets and Services
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The main objective of this course is to help students to learn the various concepts of financial markets and services and their role in the overall financial system.*

Course Outcomes:

CO1: Students will be able to describe financial market operations.

CO2: Students will be able to explain the various concepts related to financial markets and services.

CO3: Students will be able to solve various investment related issues facing the investors.

CO4: Students will be able to examine how the overall financial system works and various aspects associated with it

CO5: Students will be able to evaluate the best sources feasible for fulfilling their financial requirements related to the business

CO6: Students will be able to formulate different financial plans for the organisations with the help of different services provided by the financial markets

Course Contents:

UNIT-I

Financial markets- Structure and Participants; Capital market ; Money market; Primary and Secondary Market Operations; Listing of securities; functions of stock exchanges; Role of SEBI; Introduction to derivative and commodity markets.

UNIT-II

Financial Services: Meaning, Nature and Types; Factoring: Meaning, Characteristics and Types of Factoring arrangements, Factoring in India, Factoring vs. Forfeiting; Credit Rating: Meaning and Types, Benefits of Credit rating to investors and companies; Objectives and Functions of Credit Rating Agencies.

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UNIT-III

Credit Cards: Concept and Significance; Types of credit Cards, Credit Card business in India. Book Building: Concept and Mechanism of Book Building; Significance and Benefits of Book Building; Bought Out Deals: Meaning and Nature; Mechanisms of Bought out Deals.

UNIT-IV

Securitisation: Concept, Mode, Mechanism and Beneficiaries of Securitisation, Securitisation in India; Venture Capital: Meaning and Modes of Financing; Role and Functions of Merchant Bankers. Leasing: Concept, Classification, Accounting, Legal and Tax Aspects of Leasing

Suggested Readings:

2. Clifford, G., *Financial Markets, Institutions and Financial Services*, PHI.
3. Khan, M. Y., *Management of Financial Services*, McGraw-Hill.
4. Gordan, E and K. Natrajan, *Emerging Scenario of Financial Services*. Himalaya Publishing House
5. Meidan, Arthur Brennet, M., *Option Pricing: Theory & Applications*, Lexington Books.
6. Kim, Suk and Kim, Seung, *Global Corporate Finance. Text and Cases*, Miami Florida, Kotb
7. Khan, M., Y., *Financial Institutions and Markets*, McGraw Hill
8. Bhole, L.M., *Financial Institutions and Markets*, McGraw Hill

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MCOM/GEN/4/DSC3/FM	Business Taxation
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of the course is to acquaint the participant with the implications of tax structure and corporate tax planning in operational as well as strategic terms.*

Course Outcomes:

CO1: Students will be able to outline the meaning and scope of tax policy and basic concepts of tax in India

CO2: Students will be able to explain constitutional provisions pertaining to taxes in India

CO3: Students will be able to illustrate the computation of tax liability

CO4: Students will be able to appraise the rationale, benefits and costs of various tax incentives offered by government

CO5: Students will be able to evaluate tax implications while taking business decisions

CO6: Students will be able to formulate tax planning for individuals or business houses

Course Contents:

UNIT-I

Basic Concepts of Income Tax; Computation of Income under Different Heads of Income, Clubbing of income, Set off and Carry forward of Losses, Deductions and Exemptions.

UNIT-II

Meaning and Scope of Tax Planning, Difference between Tax planning Tax Evasion and Tax Avoidance, Residential status and Tax incidence of a Company; Computation of Corporate Tax Liability.

UNIT-III

Tax Planning with reference to Location of Undertaking, Tax Planning regarding Dividends Policy, Tax Planning relating to specific managerial decisions, Tax planning for employees

UNIT-IV

Major defects in the structure of indirect taxes prior to GST; rationale for GST; features of GST law in India, structure of GST (SGST, CGST, UTGST and IGST); rates of GST, models of GST, GST Council

Suggested Reading:

1. Singhanian, V., K. & Singhanian, Monica, *Students' Guide to Income Tax*, Taxmann
2. Singhanian, V., K. & Singhanian, Kapil, *Direct Taxes Law and practice*, Taxmann
3. Singhanian, V., K. & Singhanian, Monica, *Corporate tax Planning and Business Tax Procedures*, Taxmann
4. Narwal, K.,P., & Anushuya, *GST in India*, DBH Publishers and Distributers
5. Ahuja, G.& Gupta, R., *Simplified Approach to Corporate Tax Planning and Management*, Bharat Law House private limited
6. Srinivas, E. A., *Handbook of Corporate Tax Planning*, Tata McGraw Hill.
7. Iyengar, A. & C. Sampat, *Law of Income Tax*, Bharat House.

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MCOM/GEN/4/DSC4/FM	Portfolio Management
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to impart knowledge to students regarding the theory and practice of portfolio management.*

Course Outcomes:

CO1: Students will be able to define the concepts and terminologies of portfolio management.

CO2: Students will be able to summarise the theories underlying portfolio management.

CO3: Students will be able to apply the concepts of portfolio management and solve relevant numerical problems.

CO4: Students will be able to examine and evaluate portfolio performance.

CO5: Students will be able to apprise and judge trends in international financial markets.

CO6: Students will be able to construct investment portfolio and defend their choices.

Course Contents:

UNIT-I

Introduction to Portfolio Management: Meaning, need, and objective of portfolio management, the process of portfolio management, determination of risk & return of a portfolio, risk analysis tools

UNIT-II

Theories of portfolio selection and management- Markowitz portfolio theory: optimal portfolio, meaning and construction of efficient frontier, investors' utility; CAPM: capital asset pricing model, risk-free and risky lending and borrowing, market portfolio; capital market theory: CML, SML and Sharpe Single Index Model; Arbitrage Pricing Theory (APT).

UNIT-III

Bond portfolio management strategies –bond characteristics, fundamentals of bond valuation, bond & equity portfolio management strategies: passive portfolio strategies & active portfolio strategies.

UNIT-IV

Portfolio evaluation and revision – portfolio performance evaluation, risk adjusted performance measures; meaning, need and constraints of portfolio revision; formula plans: constant-dollar-value plan, constant ratio plan, variable ratio plan, process and intricacies of trading system in Indian stock market.

Suggested Readings:

1. Reilly, Frank K. And Brown, Keith C., *Investment Analysis and Portfolio Management*, South-Western Cengage Learning India Pvt. Ltd.
2. Fischer, Donald E. and Jordan, Ronald J., *Security Analysis and Portfolio Management*, Prentice Hall of India.
3. Sharpe, William F. et al, *Investment*. New Delhi, Prentice Hall of India.
4. Fuller, Russell J. and Farrell, James L., *Modern Investment and Security Analysis*, New York, McGraw Hill.
5. Alexander, Gordon J. and Bailey, Jeffery V., *Investment Analysis and Portfolio Management*, Dryden Press, Thomson Learning
6. Machiraju, H. R., *Indian Financial System*, Vikas Publishing House.

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MCOM/GEN/4/DSC5/FM	Financial and Commodity Derivatives
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to give an in- depth knowledge of the functioning of derivative securities market.*

Course Outcomes:

- CO1:** Students will be able to describe the concepts and terminologies of financial and commodity derivatives.
- CO2:** Students will be able to explain the models used for pricing/valuation of derivatives
- CO3:** Students will be able to interpret innovations in financial and commodity markets
- CO4:** Students will be able to appraise investment opportunities in derivative market.
- CO5:** Students will be able to evaluate derivative pricing and hedging practices.
- CO6:** Students will be able to formulate basic risk management and trading strategies using derivatives.

Course Contents:

UNIT-I

Financial Derivatives –Meaning, types, uses and factors driving the growth of derivatives. Forward Contracts v/s Future Contracts. Types of Traders: Futures Markets and the use of Futures for Hedging.

UNIT-II

Future Payoffs: long futures and short futures. Pricing stock futures: with dividend and without dividend. Application of futures: Hedging, speculation and arbitrage. Currency Futures: Meaning, uses and contract details. Interest Rate Futures: Meaning, uses and contract details.

UNIT-III

Stock Options: meaning, types and uses. General factors affecting stock option price Black-Scholes Option Model and Binomial model. Option based investment strategies-bullish, bearish, straddle, strangle and butterfly, Swaps: meaning& uses, currency swap & interest rate swap.

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UNIT-IV

Introduction to Commodity Derivatives: meaning, uses, Cereals, metals and energy products.
History and Contemporary issues of Indian derivative market

Suggested Readings:

1. Brennet, M., *Option Pricing: Theory & Applications*. Toronto, Lexington Books.
2. Cox, John C and Rubinstein, *Mark Options Markets*. Englewood Cliffs, Prentice Hall Inc.
3. Huang. Stanley S C and Randall, Maury R., *Investment Analysis and Management*, Allyn and Bacon.
4. Hull. John C. *Options, Futures and Other Derivative Securities*, PHI.
5. Sharpe. William F. et al., *Investment*, Prentice Hall of India.

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MCOM/GEN/4/DSC6/FM	Public Finance
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to analyze the major concepts, theories of public finance in logical and critical manner.*

Course Outcomes:

- CO1:** Students will be able to relate public expenditure and revenue concepts.
- CO2:** Students will be able to identify the issues involved in public debt management in India
- CO3:** Students will be able to demonstrate integrative understanding of auditing system in India
- CO4:** Students will be able to compare the possible burden, benefits and distribution of various types of taxes and their impact on general welfare
- CO5:** Students will be able to able to appraise and critically evaluate the issues in Government finances
- CO6:** Students will be able to develop analytical skills and judgement in major areas of public finance reforms

Course Contents:

UNIT-I

Nature and Scope of Public Finance;. Principle of maximum social advantage Public revenue-General considerations: Division of tax burden and incidence of taxes, Classification and choice of taxes and effect of taxation. Indian taxation system and its key issues

UNIT-II

Public Debt and some issues in debt management; Public expenditure- General considerations and effect of public expenditure; Public budget- budget classification, Performance and Programme budgeting system(PPBS) and Zero base budgeting ; Balance budget and fiscal policy. Comments on recent central Government budget

UNIT-III

Introduction to Indian Public Financial System – Historical background, Financial Federalism under Constitution; Indian Federal finance- Recommendations of latest finance commission of India;

Public debt in India-Central and states Government debt.

UNIT-IV

Government of India Finances: expenditure trends expenditure policy, control of public expenditure in India, Suggestions for reforming the budget, trends in receipts. Railway finances, public sector in India and its Financial Autonomy and Accountability of Public sector, states finances and local finances. Investment policy of public sector in India: Financial, economic and social appraisal. Financial control; Legislative and Executive Accounting and Auditing System in India, Role of Comptroller and Auditor General (CAG), Contemporary Issues in Government Finances.

Suggested Readings:

1. Musgrave, R.A., and P. B. Musgrave, *Public Finance in Theory and Practice*, Tata McGraw Hill.
2. Harvey S. Rosen, Ted Gayer, *Public Finance*, McGraw Hill
3. Tayagi, B.P., *Public Finance*, S. Chand & Co.
4. Lekhi, R.K., *Public Finance*, Kalyani Publishers.
5. Mithani, D.M., *Public Finance and International Trade*, Himalaya Publications.

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MARKETING AREA

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MCOM/GEN/4/DSC1/MM	Retail Management
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to familiarize the students with the basic concepts of retailing and understanding retail business so as to make them ready for future roles as managers*

Course Outcomes:

- CO1:** Students will be able to define the different terms used in the retail sector.
- CO2:** Students will be able to identify the current retail structure in India.
- CO3:** Students will be able to demonstrate the insights of retailing and related key activities.
- CO4:** Students will be able to appraise the importance of retailing and its role in the success of modern businesses.
- CO5:** Students will be able to evaluate the current marketing scenario and identify retail opportunities thereof.
- CO6:** Students will be able to develop a retail plan for opening up a retail store.

Course Contents:

UNIT-I

Introduction to Retail- Evolution of Retail, Organised Vs Unorganised retailing, Retail Mix, theories of retail development, Types of Retailers; Careers in Retailing; Understanding Consumers.

UNIT-II

Retail Locations- Planned and Unplanned, Retail Site Location- Site Characteristics, Trade Area Characteristics, Location and Site Evaluation; Store Layout and Design; Space Management; Visual Merchandising; Atmospherics

UNIT-III

Managing Merchandise - Merchandise Planning, Process, Forecasting Sales, Developing Assortment Plans, National Brands and Private Labels; Retail Pricing- Setting Retail Prices, Price

Adjustments, Pricing Strategies; Retail Communication Mix.

UNIT-IV

Information and Supply Chain Management- Information Flows, Logistics, Distribution Centre. Contemporary issues in Retail-Significance of retail as an industry, Retail scenario at International and National Level, Technology in Retailing, Multi-channel Retailing, E-Retailing: Future of e-retailing, Challenges for traditional retail and e-retail, FDI in Retail.

Suggested Readings:

1. Pradhan, S., *Retailing Management Text and Cases*, Mc Graw Hill Education, New Delhi
2. Levy, Micheal, Weitz, Barton, A. and Pandit, Ajay, *Retailing Management*, Tata McGraw Hill, New Delhi
3. Berman, Barry and Evans, Joel, R., *Retail Management; A Strategic Approach*; PHI/Pearson Education; New Delhi
4. Newman, Andrew, J. & Cullen, Peter, *Retailing: Environment & Operations*, Vikas Publishing House; New Delhi.
5. Gilber, David, *Retail Marketing Management*, Pearson Education, New Delhi.

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MCOM/GEN/4/DSC2/MM	Rural Marketing
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to analyze the major concepts of rural and agricultural marketing in coherent and critical manner.*

Course Outcomes:

- CO1:** Students will be able to recite problems in rural marketing and changing focus of corporate towards rural market.
- CO2:** Students will be able to recognize need of agricultural marketing in economic development and constraints of agricultural marketing.
- CO3:** Students will be able to solve the problems of cooperative sector in India.
- CO4:** Students will be able to appraise role of supply chain in agricultural marketing.
- CO5:** Students will be able to evaluate role of government and financial institution in growth of rural and agricultural marketing.
- CO6:** Students will be able to develop model for rural and agricultural marketing.

Course Contents:

UNIT-I

Features, Significance, Scope and Limitations of rural markets in India; Environmental factors affecting rural markets; Changing focus of corporate towards rural markets; Demographic and psychographic profile of rural consumer; Classification of products and services in Rural marketing, rural demand and problems in rural marketing,

UNIT-II

Agriculture Marketing –Definition, Scope, Concept and Objectives; Differences in Agricultural and Consumer Marketing; Constraints in Agricultural marketing; Role of Agriculture in Economic Development of India; Role of Government in Agricultural Development; Agribusiness; Export potential for farm products -Supporting Services.

UNIT-III

Cooperative Marketing –Concept, History, Functions – Reasons for slow progress of cooperative sector, Advantages & Limitations of Organized retailing in Agri Inputs and Outputs, Trends in Agri Marketing. Supply Chain Management in Agri Business i.e. Cold Chains, Organized procurement & warehousing.

UNIT- IV

Marketing Mix for rural products; Role of financial institutions in rural marketing. Rural marketing strategies: Different models and case studies of corporate vis Tata Kisan Seva Kendra, Commodity market functioning etc. Innovative distribution Channels like ITC E-Choupal, Godrej Adhar, HUL Shakti.

Suggested Readings:

1. Acharya S. S. and Agarwal N. L., *Agricultural Marketing in India*, Oxford & IBH Publishing Co.
2. Dr. Subhash Bhave, *Agribusiness Management in India –Text & Cases*.
3. Arora, R C., *Integrated Rural Development*, Scharnd.
4. Desao. Vassal. *Rural Development*, Himalaya Publishing House
5. Mishar, S. N., *Politics and Society in Rural India*, Inter India.
6. Porter, Michael, E. *Competitive Strategy*, Free Press.
7. T.P Gopalaswamy, *Rural marketing- Environment, problems and strategies*

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MCOM/GEN/4/DSC3/MM	Industrial Marketing
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to lay a foundation for an understanding of the complex dimensions of Industrial Marketing.*

Course Outcomes:

- CO1:** Students will be able to describe terms, concepts, and nature of industrial marketing.
- CO2:** Students will be able to compare industrial marketing with consumer marketing.
- CO3:** Students will be able to interpret the role of each stakeholder in industrial marketing value chain.
- CO4:** Students will be able to appraise competitor marketing strategy.
- CO5:** Students will be able to evaluate marketing mix strategy for industrial products.
- CO6:** Students will be able to develop an effective marketing strategy for industrial products.

Course Contents:

UNIT-I

Industrial Marketing: concept, nature and scope of industrial marketing; Difference between industrial and consumer marketing; Economics of industrial demand; Understanding industrial markets and environment: Types of industrial customers, Classification of industrial products, Marketing implications for different customers and different product types, Purchase practices of industrial customers, Environmental analysis in industrial marketing.

UNIT-II

Organisational Buying and Buyer behavior: Buyer motives, Phases in industrial buying decision process, Types of buying situations, Interpersonal Dynamics of industrial buying behavior, Buyer-Seller relationship, Models of industrial buying behavior, Industrial Marketing Research process; Industrial market segmentation, target marketing and positioning.

UNIT-III

Product Strategy: Meaning and Concept of an industrial product, Determinants of product mix,

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Industrial Product Life Cycle and strategies, New product development process; Marketing strategies for product related services and pure services; Industrial pricing decisions: Factors influencing pricing decisions, Pricing strategies, Pricing methods.

UNIT-IV

Industrial distribution channels and marketing logistics: Distinctive nature of industrial distribution channels, Factors affecting the nature of industrial channels, Role of intermediaries, Types of industrial intermediaries, Channel design decisions, Role of logistics and customer services in industrial marketing, Major components/Major decision areas of logistics, Total cost approach; Industrial marketing communication: Role of personal selling and direct marketing in industrial marketing, Personal selling process, Importance of advertising, and sales promotion in industrial marketing, Sales force management, Strategic planning, Implementing and Controlling in industrial marketing.

Suggested Readings:

1. Reeder, Robert R. *Industrial Marketing: Analysis, Planning and Control*. Englewood Cliffs. New Jersey, Prentice Hall Inc.
2. Havalder, Krishna K., *Industrial Marketing*, TMH, New Delhi
3. Havalder, Krishna K: *Text and Cases*, TMH, New Delhi
4. Brennan, R, Canning, L & McDowell, R, *Business to Business Marketing*, Sage Publications Ltd.
5. Hill, Richard, *Industrial Marketing*, Homewood Illionis, Richard D. Irwin.
6. Webster, F E. *Industrial Marketing Strategy*, New York, John Wiley.
7. Ghosh, P.K, *Industrial Marketing*, Oxford University Press.
8. Mukerjee, *Industrial marketing*, Excel Books India

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MCOM/GEN/4/DSC4/MM	Social Marketing
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of the course is to familiarize the students to design social campaigns with a view to bring change in the behavior of the public in the fields of public health and environment.*

Course Outcomes:

CO1: Students will be able to describe the meaning and nature of social marketing.

CO2: Students will be able to recognize the range of stakeholders involved in social marketing programmes and their role as target markets

CO3: Students will be able to interpret the marketing mix strategies in social marketing.

CO4: Students will be able to appraise social marketing problems and suggest ways of solving.

CO5: Students will be able to evaluate the social marketing plan.

CO6: Students will be able to develop a social marketing plan for achieving behavioral change.

Course Contents:

UNIT-I

Social Marketing: Concept, Scope, Comparison with Commercial Marketing, Approaches to influence public Behavior; Social Marketing Planning Process; Elements of Campaign.

UNIT-II

Social Marketing Environment: Campaign Focus and purpose, Mapping the Internal and External Environments; Establishing Target Audiences: Target Marketing.

UNIT-III

Setting Campaign Objectives and Goals: Behavior Objective, Knowledge Objective, Belief Objective; Social Marketing Strategies: Product in social marketing, Price of a social marketing product.

UNIT-IV

Promotional Strategies: Types of Media Channels, Choosing Media Vehicles, Timings and Factors Influencing media strategies; Plan Evaluation and Monitoring: Outcome measures, Process Measures; Establishing Budgets and finding Funding Sources.

Suggested Readings:

1. Philip, Kotler, Ned Roberto, Nancy Lee, *Social Marketing: Improving the quality of life*, Sage Publication,
2. Nancy, R., Lee, Philip, Kotler, *Social Marketing; Influencing Behavior for Good*, Sage, R., Kraig, Lefebvre, *Social Marketing and Social Change*, Wiley.
3. Hong, Cheng, Philip Kotler, Nancy R. Lee, *Social Marketing for Public Health: Global Trend and Success Stories*, Jones and Bartlett Publishers, LLC

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MCOM/GEN/4/DSC5/MM	Digital Marketing
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The aim of this paper is to acquaint the students with the concepts, techniques and developing skills regarding application of effective digital and social media marketing.*

Course Outcomes:

- CO1:** Students will be able to define various terms used in the field of digital and social media marketing.
- CO2:** Students will be able to explain the procedures used in planning and implementation of digital and social media marketing.
- CO3:** Students will be able to illustrate existing digital and social media marketing strategies.
- CO4:** Students will be able to distinguish the utility of various social media platforms for promoting a brand.
- CO5:** Students will be able to select the most suitable social media platform to market a brand.
- CO6:** Students will be able to design a social media marketing strategy for a brand.

Course Contents:

UNIT I

Introduction to digital marketing, advantages of digital medium over other media, Impact of internet on consumer buying behaviour. Domain names; Website hosting; Lead generation; Ethical and Legal Issues in the field of digital marketing.

UNIT II

Search Engine Optimisation (SEO): Introduction to SEO; understanding search engines; basics of keyword research; On-page and off-page Search Engine Optimisation.

UNIT III

Search Engine Marketing (SEM): Introduction to SEM; Google Ad words; keywords; bidding and budget; quality score; creating and optimising campaign. Google Analytics; Content marketing; Affiliate marketing; Email marketing; Mobile marketing;

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UNIT IV

Social media marketing: meaning; approach to social media; types of social media websites; blogging; social media engagement; social media ROI; using social media for branding and promotion. Marketing on Facebook, LinkedIn, Youtube, Instagram, Pinterest

Suggested Readings:

1. Parkin Godfrey, *Digital Marketing: Strategies for Online Success*, New Holland Publishers.
2. Charlesworth A., *Internet Marketing: A Practical Approach*, BH Publications.
3. Chaffey Dave, *Internet Marketing: Strategy, Implementation and Practice*, Pearson Education.
4. Trengove Alex, Malczyk Anna and Beneke Justin, *Internet Marketing*, GetSmarter under the Creative Commons BY-NC 3.0.

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MCOM/GEN/4/DSC6/MM	Customer Relationship Management
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The aim of this course is to acquaint the students with concepts, techniques and give experience in the application of concepts for developing effective Customer Relationship programme.*

Course Outcomes:

- CO1:** Students will be able to describe the customer equity.
- CO2:** Students will be able to identify the benefits of value creation for retaining customers.
- CO3:** Students will be able to interpret the role of appropriate business process and technology management capabilities in managing customer relationship.
- CO4:** Students will be able to compare different processes.
- CO5:** Students will be able to evaluate CRM implementation Strategies.
- CO6:** Students will be able to design the strategies framework for the CRM integration in the existing function of the organisation.

Course Contents:

UNIT-I

Prerequisites to CRM: Changing face of Indian market, Customer ownership and customer values, Customer life cycle (CLC) and Customer lifetime value (CLV), Customer relationship. Relationship Marketing- From traditional marketing approach to relationship marketing organizational pervasive approach, Service level agreements (SLA)

UNIT- II

Understanding CRM, Technology and CRM, Levels of CRM, Loyalty Management, Loyalty programmes, reasons of failure of loyalty programmes.
Service quality and service capacity planning: service capacity planning process; Customer driven quality and Quality Management System (QMS)

UNIT-III

Planning and implementation of CRM, CRM and Sales Force Automation (SFA): Objectives, Strategic advantage of SFA, Key factor for successful SFA. eCRM: Benefits, Data handling, eCRM systems/applications in market, specifications of eCRM solutions, Scope and Significance of a CRM project, CRM implementation process.

UNIT-IV

Making CRM a success: Success factors for CRM, Business Process Reengineering (BPR) for CRM implementation, Data Quality Management (DQM). Securing Customer Data: Information security management system, Ethical issues in CRM, IT solutions of CRM and its Integration, Future of CRM.

Suggested Readings:

2. Makkar, U. & Makkar, H. K., *Customer Relationship Management*, McGraw Hill Education.
3. Dyche, Jill., *The CRM Handbook-A Business Guide to CRM*, Pearson Education Asia.
4. Anton, J., Petouhoff, N.L. & Kalia, S., *Customer Relationship Management*, Pearson.
5. Kumar, V. & Reinartz, W., *Customer Relationship Management: Concept, Strategy, and Tools*, Springer, 2nd Ed.
6. Brown, A. Stanly, *Customer Relationship Management*, John Wiley.
7. Gosney, John W. and Thomas P. Boehm, *Customer Relationship Management Essentials*, Prentice Hall.
8. Seth, Jagdish N., *Customer Relationship Management*, Tata McGraw Hill Publishing Co.

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HUMAN RESOURCE MANAGEMENT AREA

Kuntur | A | Boole | AD | Skundu

MCOM/GEN/4/DSC1/HR	Performance Management
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to acquaint the students regarding the concept, importance, process and implementation of performance management system in an organizations.*

Course Outcomes:

- CO1:** Students will be able to recall different terms used in performance management.
- CO2:** Students will be able to identify various performance management practices.
- CO3:** Students will be able to interpret various performance management techniques.
- CO4:** Students will be able to compare performance management practices of different companies.
- CO5:** Students will be able to evaluate the implementation of various performance management practices.
- CO6:** Students will be able to develop a performance management model for corporate sector.

Course Contents:

UNIT-I

Foundations of Performance Management: Concept, Objectives, Significance of Performance Management, Performance Management Process, Performance Management and Strategic Planning, Performance Management and Performance Appraisal.

UNIT-II

Implementation of Performance Management System: Defining Performance and Choosing Measuring Approach, Models for assessing performance: balanced Scorecard, EFQM Model; Outcome Metrics: Economic Value added (EVA) & other economic measures; Measuring Results and Behavior, Common Problems in Employee Assessment, Gathering Performance Information, Implementing a Performance Management System.

UNIT-III

Performance Management and Employee Development: Personal Developmental Plans, 360 Degree

Feedback Systems, Performance Management Skills, Contribution of Human Resource Management Practices to Employee Performance.

UNIT-IV

Reward Systems and Legal Issues: Traditional and Pay for Performance plans; Impact of leadership on organizational performance, Managing team performance, ethics in performance Management; Performance management practices in Indian organizations.

Suggested Readings:

1. Aguinis, H., *Performance Management*, Prentice Hall
2. Bagchi, S. N., *Performance Management*, Cengage Learning
3. Bhattacharyya, D, *Performance Management System & Strategies*, Pearson Education
4. Bacal, R., *Performance Management*, McGrawHill
5. Dessler, G., *Human Resource Management*, Pearson Education
6. Armstrong, M., *Performance Management – Key strategies and Practical Guidelines*, Kogan Page

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MCOM/GEN/4/DSC2/HR	Labour Welfare and Social Security
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to acquaint the students with the significance and processes of Labor Welfare activities and Social Security measure adopted by the organizations.*

Course Outcomes:

CO1: Students will be able to recall different terms used in labour welfare and social security.

CO2: Students will be able to describe the labour inspection system in factories.

CO3: Students will be able to illustrate various social welfare facilities.

CO4: Students will be able to compare various welfare facilities provided by employers in factories.

CO5: Students will be able to evaluate the various social security measures provided to employees in factories.

CO6: Students will be able to develop labour welfare and social security measures for the employees of middle scale organisations.

Course Contents:

UNIT-I

Labor Welfare Activities: Concept and Significance, Origin of Labor Welfare activities, Theories of Labor Welfare; Statutory Welfare Provision in Factory Act; Labor Welfare Funds; Labor Inspection System.

UNIT-II

Critical Estimate of Welfare Work by Employers, Local Bodies and Trade Unions; Welfare of Unorganized Labor; ILO and Labor Welfare

UNIT-III

Some Special Welfare Activities: Grain Shop Facilities, Educational Facilities, Medical and Reorientation, Workers education scheme; Industrial safety; Industrial housing; Industrial health; Industrial hygiene.

UNIT-IV

Social Security: Concept and Importance; Employees' Compensation in India; Sickness Insurance in India; Unemployment Insurance in India; Old Age and Invalidity Security; Social Security Measures in the selected Countries (England, Japan & U.S.A.).

Suggested Readings:

1. Dale Yoder, *Personal Management and Industrial Relations*, Tata McGraw Hill.
2. Monappa, Arun, *Industrial Relations*, Tata McGraw Hill.
3. Sharma, A.M., *Aspects of Labour Welfare and Social Security*, Himalaya Publishing House
4. Sivarethinamohan, R., *Industrial Relations and Labour Welfare*, PHI Learning Private Ltd.

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MCOM/GEN/4/DSC3/HR	Managing Interpersonal and Group Processes
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The purpose of this course is to advance understanding regarding interpersonal and group processes and help the students to examine and develop process facilitation skills mainly through laboratory and other experience based methods of learning.*

Course Outcomes:

CO1: Students will be able to define different concepts of Interpersonal and group processes.

CO2: Students will be able to explain interpersonal behaviour.

CO3: Students will be able to demonstrate the role of transactional analyses in interpersonal behaviour.

CO4: Students will be able to compare various group decision making techniques.

CO5: Students will be able to evaluate the role of negotiations in group conflicts.

CO6: Students will be able to construct their own interpersonal behaviour model.

Course Contents:

UNIT-I

Group dynamics: types of groups, group properties, roles, norms, status and size, stages of group development and change; Group cohesiveness: factors contributing to group cohesiveness, Influence processes- power and politics in groups.

UNIT-II

Interpersonal communication: Uncertainty reduction theory, Social exchange theory, Cognitive dissonance theory; Interpersonal awareness and feedback process- Transactional Analysis; Interpersonal trust; Competition and cooperation.

UNIT-III

Group decision making: The Vroom Yetton Model, Techniques of group decision making, Advantages and disadvantages of group decision making; Group synergy; Team building.

UNIT-IV

Inter-group relation and conflict: nature and types of conflicts, causes of conflicts and remedial measures of group conflicts, Role of Negotiation in group conflicts; distributive and integrative negotiation, third party negotiation; Fundamental interpersonal relations orientation (FIRO-B).

Suggested Readings:

1. Chandan, J S, Organizational Behaviour, Vikas Publication.
2. Kolb, D., *Organizational Behaviour: Practical Readings for Management*, Englewood Cliffs, Prentice Hall Inc.
3. Mainiero, L A & Tromley C L., *Developing Managerial Skills in OB*, Prentice Hall of India,
4. Moore, M D., *Inside Organizations: Understanding the Human Dimensions*, Sage.

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MCOM/GEN/4/DSC4/HR	Counselling Skills
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *To develop basic skills among students to independently handle a wide range of employee counseling and performance counseling.*

Course Outcomes:

CO1: Students will be able to recall different terms used in counselling.

CO2: Students will be able to explain conceptual framework of counselling.

CO3: Students will be able to demonstrate the process of counselling.

CO4: Students will be able to differentiate between theories of counselling.

CO5: Students will be able to evaluate practical solutions to human behaviour related problems in the organization.

CO6: Students will be able to develop their own model of counselling.

Course Contents:

UNIT-I

Introduction to Counseling- Emergence, Growth, Definition, Need, Goal, Role and Characteristics of Counselor and Counselee, Difference between Counseling and Psychotherapy, and General Principles of Counseling

UNIT-II

Approaches to Counseling- Psycho-analytical (Sigmund Freud Theory), Therapeutic (Alfred Adler Theory), Behaviouristic (B. F. Skinner Theory), Cognitive (Albert Ellis Model) and Humanistic Approaches (Carl Rogers Approach);

UNIT-III

Counseling Process- 5-D Model, the Phases of Counseling Process, Counseling Environment and Procedure, and the Core Conditions of Counseling; Counselor's Attitude and Skills of Counseling- Verbal and Non-verbal Communication Modalities, Listening Skills, Listening Barriers and Strategies to Overcome Listening Barriers;

UNIT-IV

Organizational Applications of Counseling Skills- Identifying Problems and Coping Strategies with regard to Occupational Stress and Performance Management; Special Problems in Counseling- Selection of Counseling Strategies and Interventions, Changing Behavior through Counseling; Ethical and Legal Aspects of Counseling, and Current trends in Counseling

Suggested Readings:

1. Corner, L.S., and Hackney, H., *The Professional Counselor's Process Guide Helping*, Englewood Cliffs, Prentice Hall Inc.
2. Moursund, J., *The Process of Counseling and Therapy*, Englewood Cliffs, Prentice Hall Inc.
3. Munro, C A, *Counseling: A Skills Approach*, Methuen.
4. Reddy, Michael, *Counseling at Work*, British Psychological Society and Methuen.
5. Rao, S. Narayana, *Counselling and Guidance*, Tata McGraw Hill.
6. Gladding, S. T, *Counseling- A Comprehensive Profession*, Pearson.
7. Singh, Kavita, *Counselling Skills for Managers*, Prentice Hall of India.

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MCOM/GEN/4/DSC5/HR	Organizational Change and Intervention Strategies
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this paper is to make the students learn about the organizational change and prepare them as change facilitators using the knowledge and techniques of behavioral science.*

Course Outcomes:

CO1: Students will be able to recall different concepts of organisation change and intervention strategies.

CO2: Students will be able to explain the process of organisation changes.

CO3: Students will be able to demonstrate the various intervention strategies.

CO4: Students will be able to appraise the process of organisation changes.

CO5: Students will be able to evaluate the role of change agents.

CO6: Students will be able to develop their own consultancy model for corporate sector.

Course Contents:

UNIT-I

Organizational Change: The domain of change, concept, Change Agents, Strategic management of change; Managerial approaches for implementing change; Models of Organizational Change, Kurt Lewin's Models of Change, Huse's 7 stages model of change

UNIT-II

Change Management: Understanding the Change Process, Facilitating Change, Dealing with Individual and Group Resistances, Intervention Strategies and Develop Learning Organization. Organizational Diagnosis- Meaning & Importance, Weisbord's model of Organizational Diagnosis and Methods of obtaining diagnostic information

UNIT-III

Organizational Development: An overview, Steps in OD process, General OD Competencies, OD Skills, Values, Assumption and Beliefs in OD; Designing OD Interventions- Interpersonal, Team, Intergroup, Structural and Comprehensive Interventions; Evaluation of Organizational Development Interventions

UNIT-IV

Organizational Culture & Change; Corporate Culture, Types of Culture, Importance, Nature, Formal & Informal Components of Organizational Culture, Designing for Cultural Change; Organizational Culture & Leadership; Emerging Trends in Organizational Culture; Ethics of OD Professionals and Future of OD.

Suggested Readings:

1. French, W. H. and Bell, *Organization Development*, Prentice Hall of India.
2. French, W. H., *Organization Development Theory, Practice and Research*, Prentice Hall of India.
3. Singh, K., *Organization Change and Development*, Excel Books
4. Huse, F. E. and Cummings, T. G., *Organization Development and Change*, West.
5. De Nitish, *Alternative Designs of Human Organizations*, Sage.
6. Harvey, D.F. and Brown, D.R., *An Experiential Approach to Organization Development*, Prentice Hall Inc.

Important Instructions for the Course Coordinator and the Examiner:

- The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course by the Course Coordinator.
- As per ordinance 2021-22 approved by Academic Council held on 24.07.2021:
For End-term examination of 4/3/2 credit course, the examiner is required to set 9/7/5 questions in all where the first question will be compulsory consisting of five short answer type questions (2 marks) covering the whole syllabus, in addition to 8/6/4 long answer type questions two from each unit. The students shall be required to attempt 5/4/3 questions in all, selecting compulsory question of 10 marks and one question from each unit.



MCOM/GEN/4/DSC6/HR	Global Human Resource Management
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to develop a diagnostic and conceptual understanding of the cultural and related behavioral variables in the Human Resource Management of global organizations.*

Course Outcomes:

CO1: Students will be able to describe the concept of global human resource management.

CO2: Students will be able to discuss the human and cultural variables in global organisations.

CO3: Students will be able to interpret the various dimensions of Hofstede's study.

CO4: Students will be able to compare various studies related to culture.

CO5: Students will be able to evaluate various HRM practices prevailing in various global organisations.

CO6: Students will be able to formulate negotiation process in cross cultural context.

Course Contents:

UNIT-I

Human and Cultural Variables in Global Organizations: Culture and values, Cross Cultural Differences and Managerial Implications

UNIT-II

Cultures in Organizations and Hofstede's Study – Cultural dimensions and their HR and managerial implications

UNIT-III

Evolution of Global Organizations: Cross Cultural Leadership, Motivation and Decision Making, Cross Cultural Communication and Negotiation.

UNIT-IV

Human Resource Management in Global Organizations: Selection, Source criteria for International Assignment, Compensation and Appraisal System.

Suggested Readings:

1. Adler, N.J., *International Dimensions of Organizational Behaviour*, Kent Publications.
2. Bartlett, C. and Ghoshal, S., *Transnational Management: Text, Cases and Readings in Cross Border Management*, Irwin.
3. Dowling, P.J., *International Dimensions of Human Resource Management*, Wadsworth.
4. Hofstede, G., *Cultures Consequence: International Differences in Work Related Values*, Sage.
5. Marcis, D. & Puffer, S.M., *Management International: Cases, Exercises and Readings*, West Publishing.
6. Mead, R., *International Management: Cross Cultural Dimensions*, Blackwell.
7. Ronen, S., *Comparative and Multinational Management*, John Wiley.

Important Instructions for the Course Coordinator and the Examiner:

- The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course by the Course Coordinator.
- As per ordinance 2021-22 approved by Academic Council held on 24.07.2021:
For End-term examination of 4/3/2 credit course, the examiner is required to set 9/7/5 questions in all where the first question will be compulsory consisting of five short answer type questions (2 marks) covering the whole syllabus, in addition to 8/6/4 long answer type questions two from each unit. The students shall be required to attempt 5/4/3 questions in all, selecting compulsory question of 10 marks and one question from each unit.



The image shows five distinct handwritten signatures in blue ink, arranged horizontally. From left to right: the first signature is 'Kumar'; the second is a large, stylized 'A'; the third is 'Bade'; the fourth is 'S'; and the fifth is 'Kundu'.

OPEN ELECTIVES

Kumar

A

Boole

IS

Skundu

MCOM/GEN/9/OEC1	Corporate Governance and Business Ethics
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objective: *The objective of this course is to sensitize the students about the various ethical and corporate governance issues in business management in the current environment.*

Course Outcomes:

CO1: Students will be able to describe the different concepts of corporate governance.

CO2: Students will be able to explain the ethical dimension of doing business.

CO3: Students will be able to demonstrate the skills in implementing governance related matters

CO4: Students will be able to examine the different issues pertaining to corporate social responsibility of business.

CO5: Students will be able to evaluate the regulatory aspects of corporate governance.

CO6: Students will be able to design practical ways of inculcating ethics in various functions and operations of business.

Course Contents:

UNIT-I

Evolution of corporate governance; developments in India; regulatory framework of corporate governance in India; SEBI guidelines on corporate governance; reforms in the Companies Act

UNIT-II

Corporate management vs. governance; internal constituents of the corporate governance; key managerial personnel (KMP); chairman- qualities of a chairman, powers, responsibilities and duties of a chairman; chief executive officer (CEO), role and responsibilities of the CEO.

UNIT-III

Introduction to Business Ethics: The concept, nature and growing significance of Ethics in Business, Ethical Principles in Business, Ethics in Management, Theories of Business Ethics, Ethical Issues in Business, Business Ethics in 21st Century.

UNIT-IV

Ethics in various functional areas of Business: Ethics in Finance, Ethics in HRM, Ethics in Marketing, Ethics in Production and Operation Management.

Suggested Readings:

1. Mallin, Christine A., *Corporate Governance (Indian Edition)*, Oxford University Press, Delhi.
2. Blowfield, Michael, and Alan Murray, *Corporate Responsibility*, Oxford University Press.
3. Francesco Perrini, Stefano, and Antonio Tencati, *Developing Corporate Social Responsibility-A European Perspective*, Edward Elgar.
4. Sharma, J.P., *Corporate Governance, Business Ethics & CSR*, Ane Books Pvt Ltd, New Delhi.
5. Manuel G. Velasquez, *Business Ethics*, Pearson Prentice Hall.
6. Ravindranath B. & Narayana B., *Business Ethics*, Vrinda Publications Pvt. Ltd

Important Instructions for the Course Coordinator and the Examiner:

- The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course by the Course Coordinator.
- As per ordinance 2021-22 approved by Academic Council held on 24.07.2021:
For End-term examination of 4/3/2 credit course, the examiner is required to set 9/7/5 questions in all where the first question will be compulsory consisting of five short answer type questions (2 marks) covering the whole syllabus, in addition to 8/6/4 long answer type questions two from each unit. The students shall be required to attempt 5/4/3 questions in all, selecting compulsory question of 10 marks and one question from each unit.



MCOM/GEN/9/OEC2	Fundamental of Commerce
Time: Three Hours	Maximum Marks=100 (External = 70 Marks and Internal = 30 Marks)

Course Objectives: *The course aims to understand the fundamental of commerce to managerial decision making.*

Course Outcomes:

CO1: Students will be able to understand the role of commerce in society and economic.

CO2: Students will be able to comprehend the significance of financial planning.

CO3: Students will be able to demonstrate the skills required to develop a holistic approach towards Investment in various avenues.

CO4: Students will be able to understand the value of portfolio and loan management.

CO5: Students will be able to describe the basic concept of income tax.

CO6: Students will be able to understand the tax benefit of investment with regards to retirement.

Course Contents:

UNIT-I

Concept and characteristics of business. Objectives of business - Economic and social, role of profit in business. Classification of business activities: Industry and Commerce. Industry - types: primary, secondary, tertiary - Meaning and sub types. Commerce - trade: types (internal, external, wholesale and retail; and auxiliaries to trade: banking, insurance, transportation, warehousing, communication, and advertising. Business risks - Meaning, nature and causes.

UNIT-II

Personal Finance: Meaning and importance; Financial planning: meaning, process and role of financial planner; Risk profiling: client data analysis, life cycle, wealth cycle; Asset allocation: Strategic, Tactical, Fixed and Flexible.

The image shows five distinct handwritten signatures in blue ink, arranged horizontally. From left to right, they appear to be: a signature that looks like 'Kuntaw', a large stylized 'A', a signature that looks like 'Bade', a signature that looks like 'S', and a signature that looks like 'Skundu'.

UNIT-III

Investment Management: meaning and importance. Investment avenues: equity, debt, gold, real estate, mutual funds, exchange traded funds. Portfolio management: meaning, construction, evaluation and revision. Loan management: meaning, types, importance and assessment.

UNIT-IV

Tax planning: basic terms of income tax, advance tax, tax deduction at source, deductions under section 80C, 80 CCC, 80 D and 80 G; Taxation of investment products; Retirement planning; Management of nomination, power of attorney and will.

RECOMMENDED READINGS:

1. Kapoor Jack R, Personal Finance, The McGraw-Hill companies.
2. Huang. Stanley S C and Randall, Maury R., *Investment Analysis and Management*. Allyn and Bacon.
3. Gaungully, Ashok, Insurance Management, New Age Publishers, New Delhi.
4. Ahuja, G K & Gupta Ravi. Systematic Approach to Income Tax, Allahabad, Bharat Law House.
5. Pandian, Security Analysis and Portfolio Management, Vikas Publishing House, New Delhi.

Important Instructions for the Course Coordinator and the Examiner:

- The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course by the Course Coordinator.
- As per ordinance 2021-22 approved by Academic Council held on 24.07.2021:
For End-term examination of 4/3/2 credit course, the examiner is required to set 9/7/5 questions in all where the first question will be compulsory consisting of five short answer type questions (2 marks) covering the whole syllabus, in addition to 8/6/4 long answer type questions two from each unit. The students shall be required to attempt 5/4/3 questions in all, selecting compulsory question of 10 marks and one question from each unit.



**Learning Outcomes based Curriculum Framework
(LOCF)**

For

**M. A. (Economics)
Post Graduate Programme**

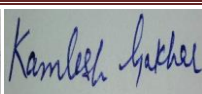
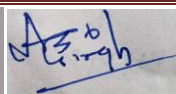
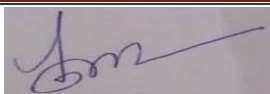
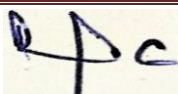


**Department of Economics
Chaudhary Devi Lal University
Sirsa-125055**

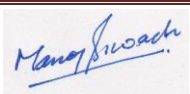
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2. Learning Outcome based Curriculum Framework
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 - 2.2 Programme Outcomes (POs)
 - 2.3 Programme Specific Outcomes (PSOs)
3. Programme Structure
4. Attainment Level
 - 4.1 Attainment of COs
 - 4.2 Calculation of Attainment Value of POs and PSOs for a Course



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1. About the Department

Established in 2004, the department of Economics runs M.A. 2year programme, M.A. Honours 5 year integrated programme and the PhD programme. Introduction of embedded course, skill enhancement courses, hands on practice courses in the M.A. 2year programme has greatly increased its employability. The department has a computer cum econometrics lab besides smart class rooms. Availability of vast range of journals and rich collection of books elevates it to a centre of higher learning.

2. Learning Outcome based Curriculum Framework

The Choice Based Credit System (CBCS) has evolved into learning outcome based curriculum framework and provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill-based courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Grading system provides uniformity in the evaluation and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations which enables the student to move across institutions of higher learning. The uniformity in evaluation system also enables the potential employers in assessing the performance of the candidates.

2.1 Objectives of the Programme

The program intends to impart advance knowledge with respect to economic theory, practice, planning and implementation. Besides developing critical thinking, strengthening the spirit of scientific enquiry, the program aims at providing interdisciplinary knowledge and skill enhancement courses to increase the employability of students. Additional courses on ethics and leadership skills have been introduced to build skills, so that the students learn to work as part of a team and lead others, setting directions and formulating inspiring vision.

2.2 Programme Outcomes (POs)

PO1	<i>Knowledge:</i> Demonstrate knowledge of historical emergence, questions asked, and distinctive contributions of the social science disciplines to the analysis of human behaviour and social issues.
PO2	<i>Problem Solving:</i> Visualize, conceptualize, articulate, and solve complex problems through experimentation and observation using theoretical framework of social

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	science disciplines.
PO3	<i>Critical Thinking:</i> Critically analyse everyday problems faced by the society, evaluate specific policy proposals, compare arguments with different conclusions to a specific societal issue, and assess the role played by assumptions in such arguments.
PO4	<i>Scientific Enquiry:</i> Develop the capability of defining problems and strengthening arguments through analysis and synthesis.
PO5	<i>Specialization and Employability:</i> Develop deeper understanding, creativity, and originality in chosen specialized areas of social science disciplines leading to employability.
PO6	<i>Interdisciplinary Knowledge & Adaptation:</i> Enhance the ability to integrate as well as synthesize the acquired knowledge within the social sciences and beyond.
PO7	<i>Self-Directed Learning:</i> Develop the ability to work independently as well as effectively in the changing environment.
PO8	<i>Ethics and Leadership:</i> Articulate and apply ethics, values and ideals that demonstrate awareness of current societal challenges. Build skills to work as part of a team and lead others, setting directions and formulating inspiring vision.

2.3 Programme Specific Outcomes (PSOs)

After completing the M.A. Economics program, the students will be able to:

PSO1	Develop the powers of inquiry, critical analysis, logical thinking, and ability to apply theoretical knowledge to current issues of policy and practice in economics.
PSO2	Learn and apply alternative tools to address various economic policy issues related to various branches of Economics.
PSO3	Develop and demonstrate fundamental in-depth knowledge and understanding of the theories, postulates, methods, principles, concepts, values, substantive rules of core as well as applied areas of Economics.
PSO4	Identify, coherently explain and synthesize core and advanced economic concepts including economic models.

3. Programme Structure

M.A. Economics programme is a four-semester postgraduate programme consisting 100 credits weightage of Core Courses (CC), Discipline Specific Elective Courses (DSC), Skill Enhancement Courses (SEC) and Open Elective Courses (OEC).

Table 1
Semester Wise Courses and Credit Scheme

Semester	Core Courses (CC)		Discipline Specific Elective Courses (DSC)		Skill Enhancement Courses (SEC)		Open Elective Courses (OEC)*		Total Credits
	No. of Courses	Credits	No. of Courses	Credits	No. of Courses	Credits	Credits		
1 st	4	16	2	8	1	-	*A total of 8 credits are to be earned from other departments or from MOOCs. Students have to opt open elective course in consultation with chairperson (Students may enrol in any of the 4 semesters)		24
2 nd	3	12	2	8	1	4			24
3 rd	4	16	1	4	1	2 P			22
4 th	4	14	1	4	1	4P			22
Total Credits	CC	58	DSC	24	SEC	10	OEC	8	92+8* 100
Percentage	CC	58 %	DSC	24 %	SEC	10 %	OEC	8 %	100 %

*A total of 8 credits are to be earned from other departments or from MOOCs. Students have to opt open elective course in consultation with chairperson (Students may enrol in any of the 4 semesters)

Table 2
Detailed break-up of Credit Courses

Semester	Core Courses (CC)	Discipline Specific Elective Courses (DSC)	Skill Enhancement Courses (SEC)	Open Elective Courses (OEC)	Total Courses (CC+DSC+ SEC)		
1 st	CC1	DSC1	SEC1	OECs offered by other departments or MOOCs worth 08 credits (Students may be enrolled in any of the 4 semesters) Students have to opt open elective course in consultation with chairperson	7		
	CC2						
	CC3	DSC2					
	CC4						
2 nd	CC5	DSC3	SEC2		OECs offered by other departments or MOOCs worth 08 credits (Students may be enrolled in any of the 4 semesters) Students have to opt open elective course in consultation with chairperson	6	
	CC6	DSC4					
	CC7						
3 rd	CC8	DSC5	SEC3			OECs offered by other departments or MOOCs worth 08 credits (Students may be enrolled in any of the 4 semesters) Students have to opt open elective course in consultation with chairperson	6
	CC9						
	CC10						
	CC11						
4 th	CC12	DSC6	SEC4	OECs offered by other departments or MOOCs worth 08 credits (Students may be enrolled in any of the 4 semesters) Students have to opt open elective course in consultation with chairperson			6
	CC13						
	CC14						
	CC15						

Table 3
Course Code and Title along with Credit Details

SEMESTER-1st				
Course Code	Course Title	Credits		
		T	P	Total
MA/ECO/1/CC1	Microeconomics – I	4	0	4
MA/ECO/1/CC2	Macroeconomics – I	4	0	4
MA/ECO/1/CC3	Economics of Growth and Development- I	4	0	4
MA/ECO/2/CC4	Statistical Methods in Economics	2	2	4
MA/ECO/1/DSC1-6	Students may choose any one from the options given in table 5	4/2	0/2	4
MA/ECO/1/DSC7-12	Students may choose any one from the options given in table 5	4	0	4
MA/ECO/1/SEC1	Universal Humanistic values and Life Skills*	Non credit		0
SEMESTER -2nd				
MA/ECO/2/CC5	Microeconomics – II	4	0	4
MA/ECO/2/CC6	Macroeconomics – II	4	0	4
MA/ECO/2/CC7	Economics of Growth and Development-II	4	0	4
MA/ECO/2/DSC13-18	Students may choose any one from the options given in table 5	4/2	0/2	4
MA/ECO/2/DSC19-24	Students may choose any one from the options given in table 5	2/4	2/0	4
MA/ECO/2/SEC2	Business Correspondent and Business Facilitator-I	4	0	4
SEMESTER -3rd				
MA/ECO/3/CC8	International Trade-I	4	0	4
MA/ECO/3/CC9	Political Economy of Development-I	4	0	4
MA/ECO/3/CC10	Agricultural Economics-I	4	0	4
MA/ECO/3/CC11	Public Economics	4	0	4
MA/ECO/3/DSC25-30	Students may choose any one from the options given in table 5	4/2	0/2	4
MA/ECO/3/SEC3	Business Correspondent and Business Facilitator-II	0	2	2
SEMESTER -4th				
MA/ECO/4/CC12	International Trade-II	4	0	4
MA/ECO/4/CC13	Political Economy of Development-II	4	0	4
MA/ECO/4/CC14	Agricultural Economics-II	4	0	4
MA/ECO/4/CC15	Cardinal Principles of Academic Integrity and Publication Ethics	2	0	2
MA/ECO/4/DSC31-36	Students may choose any one from the options given in table 5	4/2	0/2	4
MA/ECO/4/SEC4	Computer Applications in Economics	0	4	4
Total		74-	18-	92[#]

	82	10	
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*There will be five (including one hour of tutorial) teaching hours per week for this paper.

Evaluation will be internal. Awards will be submitted in the form of satisfactory (for 60 % or more marks)/ unsatisfactory (for less than 60 % marks) grades.

#Remaining 8 credits are to be earned through open elective courses

Table 4
Core Courses offered by the Department

Course Code	Course Title	Credits		
		T	P	Total
MA/ECO/1/CC1	Microeconomics – I	4	0	4
MA/ECO/1/CC2	Macroeconomics – I	4	0	4
MA/ECO/1/CC3	Economics of Growth and Development- I	4	0	4
MA/ECO/2/CC4	Statistical Methods in Economics	2	2	4
MA/ECO/2/CC5	Microeconomics – II	4	0	4
MA/ECO/2/CC6	Macroeconomics – II	4	0	4
MA/ECO/2/CC7	Economics of Growth and Development-II	4	0	4
MA/ECO/3/CC8	International Trade-I	4	0	4
MA/ECO/3/CC9	Political Economy of Development-I	4	0	4
MA/ECO/3/CC10	Agricultural Economics-I	4	0	4
MA/ECO/3/CC11	Public Economics	4	0	4
MA/ECO/4/CC12	International Trade-II	4	0	4
MA/ECO/4/CC13	Political Economy of Development-II	4	0	4
MA/ECO/4/CC14	Agricultural Economics-II	4	0	4
MA/ECO/4/CC15	Cardinal Principles of Academic Integrity and Publication Ethics	2	0	2
Total		56	2	58

Table 5
Details of Department Specific Elective Courses

SEMESTER- 1st					
Course Code		Course Title	Credits		
			T	P	Total
DSC1	MA/ECO/1/DSC1	Economics of Environment and Demography	4	0	4
	MA/ECO/1/DSC2	History of Economic Thought - I			
	MA/ECO/1/DSC3	Financial Economics – I			
	MA/ECO/1/DSC4	Mathematical Economics – I			
	MA/ECO/1/DSC5	MOOC from SWAYAM Portal			
	MA/ECO/1/DSC6	Micro Finance: Theory and Practice - I	2	2	
DSC2	MA/ECO/1/DSC7	Quantities Techniques in Economics	4	0	4
	MA/ECO/1/DSC8	Labour Economics-I			
	MA/ECO/1/DSC9	Economics of Infrastructure – I			
	MA/ECO/1/DSC10	Economy of Haryana-I			
	MA/ECO/1/DSC11	Economics of Gender and Development-I			
	MA/ECO/1/DSC12	MOOC from SWAYAM Portal			
Total			6-8	2-0	8
SEMESTER – 2nd					
DSC3	MA/ECO/2/DSC13	Indian Economy	4	0	4
	MA/ECO/2/DSC14	History of Economic Thought-II			
	MA/ECO/2/DSC15	Financial Economics-II			
	MA/ECO/2/DSC16	Mathematical Economics-II			
	MA/ECO/2/DSC17	MOOC from SWAYAM Portal			
	MA/ECO/2/DSC18	Micro Finance: Theory and Practice - II	2	2	
DSC4	MA/ECO/2/DSC19	Research Methodology	2	2	4
	MA/ECO/2/DSC20	Labour Economics-II	4	0	
	MA/ECO/2/DSC21	Economics of Infrastructure-II			
	MA/ECO/2/DSC22	Economy of Haryana-II			
	MA/ECO/2/DSC23	Economics of Gender and Development-II			
	MA/ECO/2/DSC24	MOOC from SWAYAM Portal			
Total			4-8	4-0	8
SEMESTER – 3rd					
DSC5	MA/ECO/3/DSC25	Econometrics I	4	0	4
	MA/ECO/3/DSC26	Welfare Economics-I			
	MA/ECO/3/DSC27	Industrial Economics-I			
	MA/ECO/3/DSC28	Behavioural Economics-I			
	MA/ECO/3/DSC29	MOOC from SWAYAM Portal			
	MA/ECO/3/DSC30	Economics of Insurance-I	2	2	
Total			2-4	2-0	4
SEMESTER – 4th					
DSC6	MA/ECO/4/DSC31	Econometrics II	4	0	4
	MA/ECO/4/DSC32	Welfare Economics-II			

	MA/ECO/4/DSC33	Industrial Economics-II			
	MA/ECO/4/DSC34	Behavioural Economics-II			
	MA/ECO/4/DSC35	MOOC from SWAYAM Portal			
	MA/ECO/4/DSC36	Economics of Insurance-II	2	2	
Total			2-4	2-0	4
Grand Total			14-24	10-0	24

Table 6
List of Skill Enhancement Courses Offered by Department

SEMESTER-1st				
Course Code	Course Title	Credits		
		T	P	Total
MA/ECO/1/SEC1	Universal Humanistic values and Life Skills*	Non credit		0
SEMESTER -2nd				
MA/ECO/2/SEC2	Business Correspondent and Business Facilitator-I	4	0	4
SEMESTER -3rd				
MA/ECO/3/SEC3	Business Correspondent and Business Facilitator-II	0	2	2
SEMESTER -4th				
MA/ECO/4/SEC4	Computer Applications in Economics	0	4	4
Total		4	6	10

Table 7
List of Open Elective Courses Offered by Department

Course Code	Course Title	Credits		
		T	P	Total
MA/ECO/9/OEC1	Economic Theory	4	0	4
MA/ECO/9/OEC2	Issues of Economic Development	4	0	4
MA/ECO/9/OEC3	Indian Economy: Issues, Outlook and Prospects	4	0	4
MA/ECO/9/OEC4	Money, Banking and Public Finance	4	0	4
MA/ECO/9/OEC5	Goods & Services Tax (GST) Accounts Assistant	2	2	4
MA/ECO/9/OEC6	MOOC from SWAYAM Portal	4	0	4

Notes for tables 3, 4, 5, 6 and 7:

1. T stands for lectures (theory) and P stands for practical
2. For one credit of practical, two hours of laboratory work would be conducted.
3. For a course of 4 credits, there will be one hour of tutorial class. A course with practical will not have any tutorial class. Teaching hours of tutorials will be counted towards the workload of teachers. A practical group cannot exceed 20 students i.e. the practical will be carried out in two groups, in case the number of students in the course is more than 20.

4. MOOC coordinator will display the list of MOOC for each Discipline Specific Elective Course before the commencement of each semester.

4. Attainment Level:

The CO-PO-PSO Mapping Matrix for all the Courses of M. A. 2 Year Programme has been given in table 8 given below.

Table 8
CO-PO-PSO Mapping Matrix for all the Courses of M. A. 2 Year Programme

Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
Semester-1												
MA/Eco/1/CC1	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/1/CC2	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2	2.75	2
MA/Eco/1/CC3	2.67	2.25	2.65	2.35	2.55	1.25	2.5	.67	2.52	2.27	2.45	2.47
MA/Eco/1/CC4	2.69	2.75	2.94	2.81	2.81	2.13	2.50	0.00	2.63	2.00	2.81	2.31
MA/Eco/1/DSC1	2.75	2.75	2.75	2.75	2.5	2.75	2.5	1.5	2.75	2.25	2.75	2.5
MA/Eco/1/DSC2	2	2.75	2.5	2.5	2.5	2	2.5	-	2.5	2	2.25	2
MA/Eco/1/DSC3	2.5	2.28	1.97	2.37	2.3	1.1	2.25	0.43	2.72	1.9	2.58	2.2
MA/Eco/1/DSC4	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
MA/Eco/1/DSC5	MOOC from SWAYAM Portal											
MA/Eco/1/DSC6	3	2.5	2.5	2.25	2.5	2.5	2.25	2	3	2.5	2.75	2
MA/Eco/1/DSC7	2.52	2.25	2.42	2	2.52	1	2.6	.75	2.52	2.57	2.47	2.5
MA/Eco/1/DSC8	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2	2.75	2
MA/Eco/1/DSC9	2.76	2.32	2.32	2.35	2.67	1.67	2.57	0.9	2.6	2.32	2.57	2.45
MA/Eco/1/DSC10	3	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2.12	2.75	2
MA/Eco/1/DSC11	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/1/DSC12	MOOC from SWAYAM Portal											
MA/Eco/1/SEC1	2.5	2.75	2.5	2.00	2.00	2.00	2.75	2.90	1.00	1.00	1.00	1.00
Semester-2												
MA/Eco/2/CC5	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.75	3	3
MA/Eco/2/CC6	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2	2.75	2
MA/Eco/2/CC7	2.52	2.37	2.45	2.2	2.32	1	2.75	0.72	2.62	2.27	2.35	2.52
MA/Eco/2/DSC13	2.55	2.4	2.27	2.37	2.6	1.72	2.5	0.42	2.65	2.55	2.62	2.42
MA/Eco/2/DSC14	2.25	2.75	2	2.5	2.5	2	2.5	-	2	2.5	2	2
MA/Eco/2/DSC15	2.66	1.97	2.18	2.2	2.2	1.47	2.55	0.55	2.55	2.3	2.72	2.1
MA/Eco/2/DSC16	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
MA/Eco/2/DSC17	MOOC from SWAYAM Portal											
MA/Eco/2/DSC18	3	2.75	2.5	2	2.25	2.5	2.5	1.75	3	2.5	2.25	2.25
MA/Eco/2/DSC19	2.75	2.94	3.00	2.81	2.81	2.75	2.75	2.31	2.75	2.63	2.81	2.56
MA/Eco/2/DSC20	2.75	2.75	2.5	2.75	2.5	1	2.5	-	2.75	2.25	2.75	2

MA/Eco/2/DSC21	2.75	2.45	2.5	2.52	2.32	1	2.62	0.55	2.63	2.4	2.6	2.25
MA/Eco/2/DSC22	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2.12	2.75	2
MA/Eco/2/DSC23	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/2/DSC24	MOOC from SWAYAM Portal											
MA/Eco/2/SEC2	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
Semester-3												
MA/Eco/3/CC8	3	2	3	3	2.75	2.75	2.5	-	3	3	3	2
MA/Eco/3/CC9	3.0	2.75	3.0	2.75	2.0	2.5	2.5	2.75	3	2.0	2.75	2.5
MA/Eco/3/CC10	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/3/CC11	2.75	2.75	2.75	2.75	2.5	2.5	2.5	1	2.75	2.5	2.75	2.5
MA/Eco/3/DSC-25	3	2.75	3	2.5	2.5	2	2.5	-	3	2.5	2.25	2
MA/Eco/3/DSC-26	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/3/DSC-27	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/3/DSC-28	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/3/DSC-29	MOOC from SWAYAM Portal											
MA/Eco/3/DSC-30	3	2.62	2.62	2.37	2.5	1	2.5	-	2.62	2.5	2.75	2.37
MA/Eco/3/SEC3	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
Semester-4												
MA/Eco/4/CC12	3	2.25	2.5	2.75	2.75	2.75	2.5	-	3	3	2.5	2
MA/Eco/4/CC13	3.0	2.75	3.0	2.75	3.0	2.75	2.5	2.75	3.0	2.75	2.75	2.75
MA/Eco/4/CC14	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/4/CC15	2.5	2.0	2.0	1.5	1.5	2.0	2.0	2.75	1.5	1.5	1.5	4.5
MA/Eco/4/DSC31	3	2.75	3	2.5	2.5	2	2.5	-	3	2.5	2.25	2
MA/Eco/4/DSC32	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/4/DSC33	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/4/DSC34	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/4/DSC35	MOOC from SWAYAM Portal											
MA/Eco/4/DSC36	3	2.62	2.62	2.37	2.5	1	2.5	-	2.62	2.5	2.75	2.37
MA/Eco/4/SEC4	3	2.5	2.5	2	2.5	2.75	2.5	1.5	2.5	2.5	2.25	2.5
Open Elective Courses												
MA/Eco/9/OEC1	3.0	2.75	2.75	2.75	2.5	2.25	2.5	1.25	3	2.75	2.75	2.5
MA/Eco/9/OEC2	2.57	2.27	2.25	2.42	2.75	1.72	2.42	0.04	2.52	2.52	2.45	2.55
MA/Eco/9/OEC3	3	2	3	2.5	2.5	2	2.5	-	3	2.5	2	2
MA/Eco/9/OEC4	3	2.62	2.62	2.37	2.5	1	2.5	-	2.62	2.5	2.75	2.37
MA/Eco/9/OEC5	2.0	2.0	1.5	1.5	2.5	2.0	1.5	1.25	1.5	1.5	1.25	1.25
MA/Eco/9/OEC6	MOOC from SWAYAM Portal											

4.1 Attainment of COs

The CO attainment level for a course of the program can be obtained on the basis of criteria given below in table 9.

Table 9
CO Attainment Levels for a Semester Examination of a Course

Attainment Level	Criterion
1 (Low level of attainment)	50% of students obtained letter grade of A or above (for CBCS programs) or score more than 60% of marks (for non-CBCS programs) of a course.
2 (Medium level of attainment)	60% of students obtained letter grade of A or above (for CBCS programs) or score more than 60% of marks (for non-CBCS programs) of a course.
3 (High level of attainment)	70% of students obtained letter grade of A or above (for CBCS programs) or score more than 60% of marks (for non-CBCS programs) of a course.

The CO attainment level for all the courses of the program can be obtained in a similar manner.

4.2 Calculation of Attainment Value of POs and PSOs for a Course

PO attainment value (for example for PO1) for a course can be obtained as follows:

$$AV_{\text{for PO1}} = \frac{(\text{MFCPO1}) \times \text{CO attainment value for the course}}{3}$$

Where

AV = Attainment value

MFCPO1 = Mapping factor for a course with PO1 as obtained from table 1

Likewise, PSO attainment value (for example for PSO1) for a course can be obtained as follows:

$$AV_{\text{for PSO1}} = \frac{(\text{MFCPSO1}) \times \text{CO attainment value for the course}}{3}$$

Where

AV = Attainment value

MFCPSO1 = Mapping factor for a course with PSO1 as obtained from table 2

After finding the attainment values of each PO and PSO for various courses, we may write them in table form as given below:

Table 10
PO and PSO Attainment Values for all the courses

Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
MA/Eco/1/CC1												
MA/Eco/1/CC2												
.....												
for all the courses												
.....till												
MA/Eco/2&4/OEC3												
Average of above values												

The attainment of POs and PSOs is the average of individual PO and PSO attainment values. The PO and PSO attainment values obtained above are compared with set target. The set target for each PO and PSO has been given in the following table:

Table 11
PO and PSO Attainment Values and Set Target values

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
PO attainment values												
Target Values	2	1.5	2	2	1.5	2	1.5	1.5	2	2	2	2

If PO and PSO attainment value is less than the set target value then an action plan will be prepared for improvement in the subsequent academic session.

Course Wise Content Details

**M.A. Economics
1st Semester**

RPC

Dr

Asst. Prof.

Kamlesh Kumar

Mang Prasad

Course Title: Micro Economics-I Course Code: MA/ECO/1/CC1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal : 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Know the scope and breadth of Micro Economics along with understanding the core principles of demand and supply so that they are able to apply the understanding of these concepts to comprehend real world problems along with the ability to think critically and analyze economic problems.	
CO2	It will make students aware about how various economic agents behave optimally given the scarce economic resource and other constraints.	
CO3	Understanding the core principles of production and costs so that they are able to apply the understanding of these concepts to comprehend real world problems along with the ability to think critically and analyze economic problems	
CO4	Analyze given situations in a variety of markets on a microeconomic level. Understand the internal structure and assumptions of the different analytical frameworks of market conditions, their explanatory power and limitations. Simultaneously Understanding the implications and ethical as well as value part of it.	
Unit-I Nature and scope of Economics and Microeconomics, Positive and normative analysis, Role of assumptions in economic analysis, Circular flow of economic activity, Concepts of household, firm, factors of production, equilibrium: partial and general, static, comparative static and dynamic analysis, Elasticity: need and measures, Relationship between revenue and elasticity.		
Unit-II Analysis of consumer behaviour, demand function, Law of demand – cardinal, ordinal and revealed preference approaches, income-consumption curve, Engel curve, substitute and complimentary goods, Market demand curve; consequences of Bandwagon, Snob and Veblen effect. Concept of consumer surplus.		
Unit-III		

Laws of Production: short run and long run, Internal and External economies and diseconomies, Concept of cost, derivation of short and long run cost curves, Optimum input combination: Simple case of a multiproduct firm, Technical progress and production function: Hick's classification, Elasticity of substitution, Properties of Cobb-Douglas and CES production function.

Unit-IV

Pricing process and equilibrium of firm and industry under perfect competition, monopoly (including discriminating and bilateral monopoly), monopolistic competition, Welfare effects of price control, price support and production quota.

Reading List

- Archibald, G. C. (Ed.) (1971) *Theory of the Firm*. Penguin, Harmondsworth.
 Baumol, W. J. (1982) *Economic Theory and Operations Analysis*. Prentice Hall of India, New Delhi.
 Da Costa, G. C. (1980) *Production, Prices and Distribution*. Tata McGraw Hill, New Delhi.
 Koutsoyiannis, A. (1979) *Modern Microeconomics (2nd Edition)*, Macmillan Press, London.
 Salvatore, D. (2009) *Microeconomics-Theory and Applications*. Oxford University Press.
 Varian, H. (2003) *Intermediate Microeconomics*, East-West Press.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/CC1

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Macro Economics-I Course Code: MA/ECO/1/CC2	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal : 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	The student shall understand the classical and Keynesian theory of output and employment.
CO2	Explaining the behaviour of macroeconomic variables by identifying and understanding the extended model.
CO3	Understanding the IS-LM framework and its various aspects.
CO4	To understand the theories of consumption and investment along with their relevance.

Unit-I

Determination of Output and Employment

Classical Approach: Output and Employment in Classical Theory; The Quantity Theory of Money and the Price Level; Classical Model without Saving and Investment; Classical Model with Saving and Investment.

Keynesian Approach: Two Sector Model, Three Sector Model and Four Sector Model.

Unit-II

Determination of Output and Employment

The Extended Model (Hicks-Henson Synthesis) with Fixed Price Level: The goods Market and The Money Market; Equilibrium in Goods Market and Money Market; Changes in Aggregate Demand with Govt. Spending and Taxation; Effectiveness of Fiscal-Monetary Policies and IS-LM curve.

Unit-III

Determination of Output and Employment

The Extended Model under Variable Price Level: Aggregate Supply Curve; Derivation of Aggregate Demand Curve and Determination of Equilibrium Price and Output Levels; Wage-Price Flexibility and the Full Employment Equilibrium; Monetary - Fiscal Policies and the Full Employment Equilibrium.

Unit-IV

Behavioural Foundation

Theories of consumption: The Absolute Income Hypothesis; The Relative Income Hypothesis; The Permanent Income Hypothesis; The Life Cycle Theory of Consumption.

Theories of Investment: The Present Value Criterion for Investment; The Marginal Efficiency of Capital Approach; The Simple Accelerator Theory, The Capital Adjustment Principle (Chenery Model); Financial Theory of Investment.

Reading List

Langdana, F.K. (2013) *Macroeconomic Policy: Demystifying Monetary and Fiscal Policy*. Springer.

Romer, David (2012) *Advanced Macroeconomics*. McGraw Hill Education.

Shapiro, E. (2006) *Macroeconomic Analysis*. Galgotia Publication, New Delhi.

Levacic, Rosalind &Rebmann, Alexander (2015). *Macroeconomics*. Macmillan, London.

Mankiw, Gregory N. (2014) *Principles of Macroeconomics*. Cengage Learning.

Mishkin, F.S. (2016) *The Economics of Money Banking and Financial Markets*. Pearson.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/CC2

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	2	2	3	2
CO2	2.5	3	3	2	3	1	2.5	-	3	2	2.5	2
CO3	3	2	2	3	2	1	2.5	-	3	2	2.5	2
CO4	3	3	3	3	3	1	2.5	-	3	2	3	2
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2	2.75	2

Course Title: Economics of Growth and Development-I Course Code: MA/ECO/1/CC3		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal : 30
Note For the paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO 1	To understand, analyze and interpret the nature of growth & development with a view to measure and mark its trajectory.	
CO 2	To analyse and understand the classical growth models, role of innovations and stages of growth with their historical origins and role.	
CO 3	To analyse and understand the balanced and unbalanced growth in economy	
CO 4	To analyse and understand the neo-classical and Cambridge growth models with mathematical treatment.	
Unit I		
Economic development-meaning, development and under development. Perpetuation of underdevelopment – vicious of poverty, circular causation, structural view of underdevelopment. Measurement of Development – conventional, Human Development Index and quality of life indices, concept of sustainable development.		
Unit-II		
Theories of development: classical, Karl Marx, Schumpeter and structural analysis of development, Lewis model of development. Ranis- Fei model, Dependency theory of development. Rostow’s theory of stages of economic growth.		
Unit-III		
Strategies of economics growth: balanced growth, critical minimum efforts, big push, unbalanced growth, low income equilibrium trap.		
Unit-IV		
Theories of economic growth: Models of growth of John Robinson and Kaldor, Harrod-Domar model, Instability of equilibrium, Neo-classical growth Model, Solow’s steady state growth.		
Reading List Barro, R. J. & Sala-i-Martin, X. (2004). <i>Economic Growth</i> . MIT Press. Behrman, S. & Srinivasan, T.N (Eds.). (1995). <i>Handbook of Development Economics, Vol. 3</i> .		

Elsevier, Amsterdam.

Chenery, H. & Srinivasan, T.N. (Eds.) (1989). *Handbook of Development Economics, Vol. 1 & 2*. Elsevier, Amsterdam.

Schultz, Paul T. & Strauss, J. (Eds.). (2008). *Handbook of Development Economics, Vol. 3*. Elsevier, Amsterdam.

Sen, A.K. (Ed.). (1990). *Growth Economics*. Penguin, Harmondsworth.

Chakravarti, S. (1982). *Alternative Approaches to the Theory of Economic Growth*. Oxford University Press, New Delhi.

Ghatak, S. (1986). *An Introduction to Development Economics*. Allen and Unwin, London.

Gillis, M., Perkins, D.H., Romer, M. & Snodgrass, D.R. (1992). *Economics of Development*. W.W. Norton, New York.

Jones, H.G. (1975). *An Introduction to Modern Theories of Economic Growth*. Nelson, London.

Meier, G.M. & Rauch, J.E. (2005). *Leading Issues in Economic Development*. Oxford University Press, New Delhi.

Adelman, I. (1961). *Theories of Economic Growth and Development*, Stanford University Press, Stanford.

Higgins, B. (1959). *Economic Development*. W.W. Norton, New York.

Kindleberger, C.P. (1977). *Economic Development*. McGraw Hill, New York.

Meier, G.M. & Rauch, J.E. (2005). *Leading Issues in Economic Development*. Oxford University Press, New Delhi.

Thirlwal, A.P. (1999). *Growth and Development*. Macmillan, U.K.

Todaro, M.P. & Smith, S.C. (2003). *Economic Development*. Pearson Education, Delhi.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/CC3

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.9	1.6	2.5	2.8	2.7	1	2.9	.5	2.9	2	2.9	2.5
CO2	2.7	1.7	2.8	2	2.8	1.7	2.7	.9	2.6	2.6	2.6	2.6
CO3	2.6	2.9	2.7	2.6	2.2	1	2.3	.7	2.4	2	2.2	2.2
CO4	2.5	2.8	2.6	2	2.5	1.3	2.1	.6	2.2	2.5	2.1	2.6
Average	2.67	2.25	2.65	2.35	2.55	1.25	2.5	.67	2.52	2.27	2.45	2.47

Course Title: Statistical Methods in Economics Course Code: MA/ECO/1/CC4	Theory Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20	Practical Credits:2 Time: 3 Hrs. Marks: 50 End Term: 30 Practical Record: 10 Viva Voce: 10
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Note for the paper Setter

The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.

Course Outcomes

CO1	Students will be able to learn about correlation and Regression analysis.
CO2	Understanding about sampling methods, Hypothesis testing and various statistical tests.
CO3	Students will be skillful about presentation of graphs, charts, various methods related to descriptive statistics on excel.
CO4	Students will enhance their skills about correlation, Regression analysis and estimation of simple, compound and exponential growth by using excel.

Unit-I (Theory)

Sampling and it's Methods, standard error, hypothesis testing, test of significance, Type I and Type II errors level of significance, Power of a test, z, t, chi-square and F tests.

Unit-II (Theory)

Correlation and regression: simple correlation, Pearson, spearman's correlation coefficients, multiple and partial correlation analysis specification of a simple linear regression model, least square estimation of linear regression coefficients, interpretation of correlation and regression coefficients and their properties.

Unit-III(Practical)

Introduction to excel sheet, Presentation of the graphs and charts on excel. Statistical techniques and methods on excel: Addition, Subtraction, Multiplication and Division, Descriptive Statistics (Mean, Median, Mode, Standard Deviation and Co variance).

Unit-IV (Practical)

Statistical Techniques on Excel: Correlation and Regression analysis by using Excel.

Estimation of Simple Growth, Compound Growth and Exponential Growth on Excel.

Suggested Readings

Gupta S. C. “Fundamentals of Statistics” S. Chand & Sons, New Delhi (1993)
 Spiegel, Murry R “Theory and problems of Statistics” (Schaum’s outline series, McGraw Hill) (1992)
 Karmal P. H. and Polasek M. “Applied Statistics for Economists (4th edition), Pitman, Australia.
 Paul McFedrics (2019). “Microsoft Excel 2019 Formulas and Functions”, Pearson Education, Inc.
 Ken Bluttman, “Excel Formulas and Functions for Dummies (3rd edition)” Wiley Publications.
 Wayne L. Winston, “Microsoft Excel 2019 Data Analysis and Business Modling (6th edition)”, Pearson Education, Inc.
 Greg Harvey, PhD, “Microsoft Excel 2019 for Dummies” Wiley Publications.

Note: Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/CC4

Course Outcomes	PO 1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	3	2	2.5	0	2.5	2	2.75	2
CO2	2.5	3	3	2.75	2.75	2	2.5	0	2.75	2	2.75	2.5
CO3	2.75	2.5	2.75	2.5	2.5	2	2.5	0	2.5	2	2.75	2.75
CO4	3	3	3	3	3	2.5	2.5	0	2.75	2	3	2
Average	2.69	2.75	2.94	2.81	2.81	2.13	2.50	0.00	2.63	2.00	2.81	2.31

Course Title: Economics of Environment and Demography Course Code: MA/ECO/1/DSC1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External : 70 Internal : 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand the linkages between economy and environment, economic instruments of environment protection, problem of common property resources, environmental Regulations and international environmental issues.	
CO2	To learn & equip with the use of environmental valuation techniques and policy mix instruments.	
CO3	Describe and compare the population and environment linkages, demographic process of fertility, mortality and migration.	
CO4	Use demographic concepts and population theories to explain past and present population characteristics.	
Unit-I		
Economy and Environment, Economic Instrument for Environment Protection; Pollution Charges, Ambient Charges, Product Charges and Subsidies, Liability Rules—Non Compliance Fees, Deposit Refund System and Performance Bond; Coase Theorem & Common property Resource; Monitoring and Enforcement of Environmental Regulations. International Environmental Issues and Impact on India.		
Unit-II		
Concept of Economic Value of Environment-Use Value & Non Use Value; Measurement of Economic Value of Environment WTP and WTAC; Contingent Valuation Method; Travel Cost Method; Hedonic Market Method; Averting Behavior Approach- Household Health Production Function.		
Unit-III		
Population and Environment: Population Poverty and Environmental Degradation, Linkages between Population and Environment. Economic Development and Environment. Fertility, Mortality and Migration: Fertility - Meaning & Concepts; Factors affecting Fertility;		

Levels and Trends of Fertility in Developed and Developing Countries. Mortality - Meaning & Concepts; Factors affecting Mortality; Life Tables - Construction & Uses; Concepts of Stationary, Stable and Quasi Stationary Population; Population Pyramids. Migration – Meaning, Types and Factors affecting Migration.

Unit-IV

Theories of Population: Malthusian Theory, Optimum Theory; Theories of Demographic Transition: Blacker and Boserup; Biological Theories of Population; Socio-Economic Theories of Population – Marx & Leibenstein, Approaches of Meadows, Becker and Easterlin.

Reading List

- Bhattacharya, Rabindra Nath (2002) *Environmental Economics: An Indian Perspective*, Oxford India.
- Chary, S.N. and Vyasulu, Vinod (2000) *Environmental Management - An Indian Perspective*. Macmillan, New Delhi.
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- Sankar, U. (Ed.). (2001)*Environmental Economics*, Oxford University Press, New Delhi.
- Majumdar, P. K. (2010) *Fundamentals of Demography*, Rawat Publication.
- Mishra, J.P. (2018),*Demography*, Sahitya Bhawan Publication.
- Novell, C. (1990), *Methods and Models in Demography*, Bellhaven, Washington D.C.
- Pathak, K.B. & Ram, F. (2016). *Techniques of Demographic Analysis*. Himalaya Publishing House.
- Weeks, J. (2005)*Population: An Introduction to Concepts and Issues*. Wordsworth Learning. Singapore 9th edition.
- Siegel, Jacob S. & David A. Swanson (2004) *The Methods and the materials of Demography*. Second Edition, Elsevier Science.USA.
- Srinivasan, K. (1998)*Basic Demographic Techniques and Applications*. Sage publications.

CO-PO and CO-PSO Matrix for the Course MA/Eco/1/DSC-1

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.75	2.5	3.0	2.75	2.75	2.75	2.5	2	3	2.5	2.75	2.5
CO2	2.75	2.75	3.0	2.75	2.75	2.75	2.5	1	3	2.5	2.75	2.75
CO3	2.5	3.0	2.5	2.75	2.5	2.75	2.5	2	2	2	2.5	2
CO4	3.0	2.75	2.5	2.75	2.0	2.75	2.5	1	3	2	3	2.75
Average	2.75	2.75	2.75	2.75	2.5	2.75	2.5	1.5	2.75	2.25	2.75	2.5

Course Title: History of Economic Thought–I Course Code: MA/ECO/1/DSC2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	To understand, analyze Economic Ideas and the Development of Economic Thinking in Ancient Times.	
CO2	To understand, analyze and interpret the evolution of mercantilist theories, Physiocracy.	
CO3	To understand, analyze and interpret the classical political economy.	
CO4	To develop an insight in the Ricardian & Malthusian theories of value, distribution, rent, international trade and population growth.	
Unit-I Economic Ideas and the Development of Economic Thinking in Ancient Times Hebrew Economic thought, Greek Economic Thought: Plato and Aristotle; Roman Economic Thought; Medieval Economic Thought: Canon Law; Ideas of Saint Thomas Aquinas and Nicholas Oresme		
Unit-II The Beginnings of the Modern World <i>Mercantilism:</i> Rise of Mercantilism and its main ideas. <i>Physiocracy:</i> The pre-conditions of the Industrial Revolution; Ideas of Natural Order and Net Product; Quesnay's Tableau Economique		
Unit-III Adam Smith Philosophy of Naturalism and Optimism. Theories of Value, distribution, Views on division of labour, trade and economic progress.		
Unit-IV David Ricardo Theories of Value, rent distribution and ideas on economic development and international		

trade.

Malthus: Theory of population and gluts.

Reading List

Blackhouse, R. (1965) *A History of Modern Economic Analysis*, Basil Elackwell, Oxford.

Gide, C, and G. Rist (1956) *A History of Economic Doctrines* (2nd edition), George Harrop & Co., London.

Grey, A. (1980) *The Development of Economic Doctrine* (2nd E. Thomson edition), Longman Group. London.

Harney, L. H. (1949) *History of Economic Thought*,

Mandel, E. (1968) *Marxist Economic Theory*. Screpanti, Ernest (1995) *An outline of the History of Economic Thought*, Stefano Zamagni Clarndon Press.

Roll, E (1991) *A History of Economic Thought*.

Schumpeter, J. (1954) *A History of Economic Analysis*, Oxford University Press, New York.

Seshadri, G. B. (1997) *Economic Doctrines*. B.R. Publishing Corporation, Delhi.

Spiegel, H.W (1991) *The Growth of Economic Thought*.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC-2

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2	3	2.5	3	2	2	2.5	-		2	2	2
CO2	2	3	2.5	2	3	2	2.5	-	2	2	2	2
CO3	2	2	2.5	2	2	2	2.5	-	3	2	2.5	2
CO4	2	3	2.5	3	3	2	2.5	-	2	2	2.5	2
Average	2	2.75	2.5	2.5	2.5	2	2.5	-	2.5	2	2.25	2

Course Title: Financial Economics-I Course Code :MA/ECO/1/DSC-3	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note For the paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand, apply and solve the time value of money problems and its applications in investment evaluation criteria.
CO2	Understand and compute various costs of capital and design an optimal capital structure.
CO3	Understand theoretically how dividend decisions are taken in corporate sector and design a dividend policy for a firm.
CO4	Understand the management of working capital and its components, and solve problems in relation thereto.

Unit-I

Capital Budgeting: Time Value of Money; Goals of Finance; Economics of capital Budgeting - Investment Criteria, Estimation of project Cash Flows, Risk Analysis in Capital Budgeting, Computation of Cost of Capital.

Unit-II

Capital Structure and Firm Value: Economics of Capital Structure and Firm Value - Net Income Approach, Net Operating income Approach, Modigliani and Miller Approach; Analysis of Optimal Capital structure – EBIT & EPS Analysis, ROI & ROE Analysis, Operating and Financial Leverage.

Unit-III

Dividends and Working Capital: Economics of Dividends- Walter Model, Gordon Model, Modigliani and Miller Model; Economics of Working Capital- Estimation of Working Capital, Financing of working Capital. Cost-Volume-Profit Analysis.

Unit-IV

Cash, Receivables and Inventory: Economics of Cash – Cash Budgeting and its Simulation, Optimal Cash balance, Baumol Model, Miller and Orr Model; Economics of Receivables; Economics of Inventory – EOQ Model, Pricing of Raw materials, Monitoring and Control of

Inventories.

Reading List

Brittain, J.A. (1978). *Corporate Dividend Policy*. Brookings Institution, USA.

Chandra, Prasanna (2011). *Financial Management: Theory and Practice*. Tata McGraw Hill.

Harold Bierman, Jr. & Smidt, Seymour (2007). *The Capital Budgeting Decision: Economic Analysis of Investment Projects*. Routledge.

Kent Baker, H. & and Martin, Gerald S. (2011). *Capital Structure and Corporate Financing Decisions*. Wiley Publishers.

Mehta, D. R. (1974). *Working Capital Management*. Prentice- Hall.

Van Horne, J.C. (2002). *Financial Management and Policy*. Pearson Education.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC3

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.75	2.75	1.9	1.7	1.9	1.7	2.6	.2	2.8	1.9	2.75	2.5
CO2	2.3	1.8	1.5	2.7	2.8	0.9	2.4	.5	2.73	1.8	2.3	1.8
CO3	2.75	1.9	1.8	2.6	1.9	0.8	2.1	.7	2.75	1.9	2.8	2
CO4	2.2	2.7	2.7	2.5	2.6	1	1.9	.3	2.6	2	2.5	2.5
Average	2.5	2.28	1.97	2.37	2.3	1.1	2.25	0.43	2.72	1.9	2.58	2.2

Course Title: Mathematical Economics-I Course Code: MA/ECO/1/DSC4	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand the various rules of matrix algebra and their economic applications along with the ability to solve the models containing system of simultaneous equations.
CO2	Appreciate the techniques of differential calculus, ability to compute elasticity, rate of change along with the ability to use these concepts in the field of economics.
CO3	Familiar with the concepts of maxima, minima, integral calculus and difference equations along with the ability to know the optimizing behavior of various economic agents, lagged models and Computation of consumer's surplus and producer's surplus.
CO4	Understand, explain, solve and design different forms of utility functions and demand functions; and some recent concepts related to theory of demand using mathematical derivations and optimization.

Unit-I

Matrix Algebra and Its Applications

Concept of Matrix and Determinant: their types, simple operations on matrices; Matrix inversion and rank of matrix; Solution of simultaneous equations through Cramer's rule and Matrix inverse method and their economic applications.

Unit-II

Differential Calculus and Its Applications

Rules of differentiation, higher order derivatives and its economic applications. Revenue and Cost functions.

Rules of Partial differentiation, higher order partial derivatives and its economic applications. Elasticity and their types, homogenous functions, total differentiation.

Unit-III

Maxima, Minima, Integration and Difference equations:

Problems of maxima and minima in single and multivariable functions; constrained

maximization and its economic applications. Simple rules of integration and its application to consumer's and producer's surplus.

Difference equations: Solution of first order and second order difference equations; Applications in trade cycle models; Growth models and lagged market equilibrium models.

Unit-IV

Topics in Consumer Behavior

Types of utility functions; Ordinal utility maximization; Demand functions- ordinary and compensated; Slutsky equation- income, substitution, and price effects; Linear expenditure systems; Indirect utility function.

Revealed preference theory.

Reading List

Aggarwal, C.S. and R.C. Joshi (2011). *Mathematics for students of Economics*. New Academic publishing Co. Jalandhar.

Allen, R.G.D. (1972). *Mathematical Economics*. Macmillan, London.

Allen R.G.D. (2002). *Mathematical Analysis for Economists*. Macmillan Press and ELBS, London.

Chiang, A.C.(2006). *Fundamental Methods of Mathematical Economics*. McGraw Hill, New York.

Chung, J.W. (1994). *Utility and Production: Theory and Applications*. Basil Blackwell, London.

Henderson, J. M. & Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach*. McGraw Hill, New Delhi.

Koutsoyiannis, A. (1979). *Modern Microeconomics*. Macmillan Press, London.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC4

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
CO2	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
CO3	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
CO4	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
Average	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75

Course Title: Micro Finance Theory & Practice-I Course Code: MA/Eco/2/DSC6	Theory Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20	Practical Credits:2 Time: 3 Hrs. Marks: 50 End Term: 30 Practical Record: 10 Viva Voce: 10
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Note for the paper Setter

The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.

Course Outcomes

CO1	Evaluate potential locations, identify and source potential customer groups. Assist in application and loan disbursement process, and collect fees and installments. Cross-sell other products of the organization.
CO2	Follow-up with the Microfinance customers whose repayment of dues have been delayed for their recovery. Maintain various records in a systematic way for later retrieval.
CO3	Communicate in an effective manner with customers and colleagues in order to ensure high level of customer service. Maintain integrity of transactions and ensure data security.
CO4	Demonstrate that high levels of ethics are exhibited at every stage of work. Work in teams towards a common goal which is in line with the goal of the organizations.

Unit-I

Basics of Microfinance: Concept, Importance, Risk Associate. MSME segment, Priority sector lending to the country and the organization, Composition & mission of Self-Help Group and Joint liability Group.

Basics of lending: Various loan products financial facilities offered by Banks and Micro Finance companies, differentiate between secured and unsecured loans, Different types of liens assigned to assets viz, Pledge, hypothecation, Mortgage and Assignment, Fixed, reducing and floating rate of interest, EMI, drawing power and sanctioned limit of loans, Features & benefits Kisan Credit card, RBI and NABARD

Unit-II

Mutual Funds: Concept, different aspects and features, various products and schemes available; process for approaching and marketing of various mutual funds schemes & Insurance schemes; concepts of Life Insurance, General Insurance, Human Life Value and Mortality; Various life & non-life products and FD.

Practical:

Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed. It will have a weightage of 2 Credit.

Unit-III

Micro Finance Customers: Formulate the process of scoping and mapping of the territory assigned and identification of customers and groups; List down the activities that can be conducted to identify potential customer; Practice the process of discussions with potential clients, presenting the micro-finance products to the potential customers & groups and cross-selling of other products to the customer. Interpret the sales process consisting of Planning, Execution, Monitoring and Review; Devise strategies to generate leads and a process of closing the call and completing the documentation; Evaluate the process and advantages of prioritizing, filtering and churning of leads.

Unit-IV

Practice the process of obtaining appointments and narrowing down upon the need of the customer; Formulate the process of meeting the customer; Choose the right solution to offering and practice handling objections; Recognize the importance of grooming standards & Etiquettes in sales.

Micro Finance Application Process: Analyse the entire process of application for each Microfinance product (Loans and investment); Practice filling up application forms for each Microfinance product; Discuss the KYC policy and the documents that need to be collected from the customer; List down the financial documents that need to be collected from the customer; Underline the areas in which extreme due diligence is to be followed.

Reading List

Hearth H.M.W A. (2018). *Micro Finance Theory and Practice*. Acmillan S. Godage & Brothers (Pvt) Ltd, Colombo, Sri Lanka. ISBN: 978-955-30-9258-8.

Rana O.C. and Hemraj (.2016). *Micro Finance*. Himalaya Publishing House. New Delhi ISBN: 978-93-5202-104-8

Ahlawat, S. (2015). *Micro Finance: Group Based Working*. Write & Print Publication, Delhi. ISBN: 978-93-8464-910-4.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC6

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	2	2	2.5	3	2	2	3	2.5	3	2
CO2	3	2	2	2	2.5	3	2	2	3	2.5	3	2
CO3	3	3	3	3	2.5	2	2.5	2	3	2.5	2.5	2
CO4	3	3	3	2	2.5	2	2.5	2	3	2.5	2.5	2

Average	3	2.5	2.5	2.25	2.5	2.5	2.25	2	3	2.5	2.75	2
Course Title: Quantitative techniques in Economics Course Code: MA/ECO/1/DSC7											Total Credit: 4 Time: 3 Hrs. Marks: 100 External:70 Internal: 30	
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.												
Course Outcomes												
CO 1	Understand, explain and solve the derivatives of the functions and some recent concepts related to theory of demand and elasticity using mathematical derivations.											
CO 2	Understand, explain, solve the problems of maxima and minima, integration and its economics application.											
CO 3	Understand explain and study the determinants in various topics of economics, business and solve the equation and system of equations.											
CO 4	Understand explain and determine the condition of dynamic stability in lagged economic models.											
Unit-I												
Functions: Concept and types of functions; Multivariable functions; Interpretation of revenue, cost, demand, supply functions; Types of production cost functions; Limits, Continuity and derivatives; Rules of differentiation and its economic applications. Rules of Partial differentiation and its economic applications. Elasticity and their types.												
Unit II												
Problem of maxima -minima in single and multivariable function; Unconstrained and constrained optimization in simple economic applications. Concept of integration and its economic application.												
Unit III												
Concept of Matrix and their types, simple operations on matrices, matrix inversion and rank of matrix; Determinants and their properties. Solution of simultaneous equations through Cramer's rule and Matrix inverse method and their economic applications. Introduction to input-output analysis.												
Unit IV												
Difference equations – Solution of first and second order difference equations; Applications in trade cycle models; Growth models and lagged market equilibrium models.												
Reading List												

Aggarwal D.R. *Quantitative Methods*

Aggarwal S.C. and R. K. Rana *Mathematics for Economists* (latest).VK Global Publications Ltd.

Allen, R.G.D. (1972). *Mathematical Economics*. Macmillan, London.

Allen, R.G.D. (2002). *Mathematical Analysis for Economists*. Macmillan Press and ELBS, London.

Chiang, A.C. (1999). *Elements of Dynamic Optimization*. Waveland Press Inc., Long Grove, Illinois.

Chiang, A.C. (2006). *Fundamental Methods of Mathematical Economics*. McGraw Hill, New York.

Henderson, J. M. & Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach*. McGraw Hill, New Delhi.

Hoy, Michael *et al.* (2004) *Mathematics for Economics*, PHI, New Delhi,

Koutsoyiannis, A. (1979) *Modern Microeconomics*. Macmillan Press, London.

Lancaster, K. (2012). *Mathematical Economics*. Dover Publications Inc., New York.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC7

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.6	2.6	2.9	2	2.8	1	2.8	1.1	2.8	2.2	2.8	2.5
CO2	2.2	2	2.7	1.9	2	1.1	2.6	.9	2.6	2.8	2	2.5
CO3	2.5	2.5	2.2	2	2.6	1	2.5	.8	2.5	2.6	2.6	2.6
CO4	2.8	1.9	1.9	2.1	2.7	0.9	2.5	.2	2.2	2.7	2.5	2.4
Average	2.52	2.25	2.42	2	2.52	1	2.6	.75	2.52	2.57	2.47	2.5

Course Title: Labour Economics-I Course Code: MA/ECO/1/DSC8		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	To be able to analyze labour market issues through the application of economic data and theories.	
CO2	Critically analyze the factors affecting supply in labour market with quantitative research.	
CO3	To be able to synthesize information on different actors and outcomes across the various labour market topics including employment, unemployment, technological change.	
CO4	To be able to understand the process of wage determination and development of generic skills to think critically, interpret and explore to be able to apply theory to practice and synthesize as well as evaluate data and other information.	
Unit-I Nature and characteristics of labour markets in developing countries like India; Paradigms of labour market analysis –Classical and neo-classical; Demand for labour in relation to size and pattern of investment.		
Unit-II Supply of labour in relation to growth of labour force; Labour market policies; Mobility and productivity of labour; Rationalization; Methods of recruitment and placement; Employment service organization in India.		
Unit-III Employment and development relationship-Poverty and unemployment in developing Countries; International Labour Organization- Objectives, Principles and Functions; International Labour Organization and India.		
Unit-IV		

Classical and neo-classical bargaining theories of wage determination; Concepts of minimum wage, living wage and fair wage in theory and practice; Wage determination in various sectors –rural, urban, organized, unorganized and in informal sectors.

Reading List

Binswanger H.P. & Rosenzweig, M.R. (Eds.) (1984), *Contractual Arrangements, Employment, and Wages in Rural Labor Markets in Asia*. Yale University Press, New Haven.

Das, N. (1960). *Unemployment, Full Employment and India*. Asia Publishing House, Bombay.

Datt, G. (1996). *Bargaining Power, Wages and Employment: An Analysis of Agricultural Labour Markets in India*. Sage Publications, New Delhi.

Desphande L.K. and J.C. Sandesara, (Ed.). (1970). *Wage Policy and Wages Determination in India*. Bombay University Press, Bombay.

Jhabvala, R. &Subrahmanya,R.K. (Eds.) (2000).*The Unorganised Sector: Work Security and Social Protection*. Sage Publications, New Delhi.

Hicks J.R. (1932). *The Theory of Wages*. Clarendon Press, Oxford.

Kannapan, S. (1983). *Employment Problems and Urban Labour Markets in Developing Countries*. University of Michigan, Ann Arbor.

Lester, R.A. (1964). *Economics of Labour*, (2nd Edition), Macmillan, New York.

McConnell, C.R. & Brue, S.L. (1986). *Contemporary Labour Economics*, McGraw-Hill, New York.

Papola, T. S. & Rodgers, G. (Eds.). (1992). *Labour Institutions and Economic Development in India*, International Institute for Labour Studies, Geneva.

Rees, A. (1973). *Economics of Work and Pay*, Harper and Row, New York.

Rosenberg M.R. (1988). *Labour Markets in Low Income Countries*, In Chenery, H.B. and T.N. Srinivasan, (Eds.), *The Handbook of Development Economics*, North-Holland, New York.

Sen, A.K. (1975). *Employment, Technology, and Development*, Oxford University Press, New Delhi.

Solow, R.M. (1990). *Labour Market as an Institution*, Blackwell, London.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC8

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	2	2	3	2
CO2	2.5	3	3	2	3	1	2.5	-	3	2	2.5	2
CO3	3	2	2.5	3	2	1	2.5	-	3	2	2.5	2
CO4	3	3	2.5	3	3	1	2.5	-	3	2	3	2
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2	2.75	2

Course Title: Economics of Infrastructure-I Course Code: MA/ECO/1/DSC9	Total Credit: 4 Time: 3 Hrs. Marks: 100 External:70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Students will be exposed to the concepts, models and problems related to Infrastructure. They will be able to understand and evaluate the environmental, economic, social and sustainability constraints of infrastructure projects.
CO2	Understand the alternative transportations models, in light of capacity, effectiveness, frequency, environment and financing.
CO3	Students will be able to analyze and gain knowledge of Central concepts in Benefit/Cost Analysis (BCA) and do economic analysis to understand application in the transport sector.
CO4	Understand and Model the Education Production Function; education externalities; education planning and quality and other related issues.

Unit-I

Scope of Infrastructure: Infrastructure – Physical & Social Infrastructure; Infrastructure as a public good; The peak load, off - load problem; Role of infrastructure in economic development; Issues & policies in financing of infrastructure; Theory of natural monopoly.

Unit-II

Microeconomic Aspects of Transportation–I: Economics of transportation network growth; Congestion and demand of transport network; Pricing of transport services; Travel time value theories; Elasticity of Substitution, Economies of scale and behavior of transport costs; Transport and economic development.

Unit-III

Microeconomic Aspects of Transportation–II: Transport externalities; Transport demand; Price elasticity of transport demand; Demand forecasting for urban transport; Trip scheduling in urban transport; Cost-benefit analysis of transport projects; Transport policy and development in a changing environment; Transport regulation; Perfect competition in transport markets; Imperfect competition in transport markets; Transport subsidies.

Unit-IV

Economics of Education: Educational infrastructure and Economic Growth; Educational production functions; Education technology; Educational quality; Costs and efficiency of higher education; Education externalities; Approaches to Educational Planning- Social Demand, Rate of Return and Manpower Balance Approaches; The case for Universal, Free, Primary Education.

Reading List

- Blaug, M. (Ed.). (1968). *Economics of Education: selected readings*. Penguin Books, England.
- Button, K. (2010). *Transport Economics*. Edward Elgar.
- Coto - Millan, P. & Inglada, V. (Eds.). (2007). *Essays on Transport Economics*. Physica Verlag (Springer).
- Cowie, J. (2009). *The Economics of Transport: A Theoretical and Applied Perspective*. Routledge.
- Dustmann, C., B. Fitzenberger & Machin, S. (2008) *The Economics of Education and Training*, Springer.
- Indian Council of Social Science Research (ICSSR). *Economics of Infrastructure, Vol. IV*, New Delhi.
- McMohan, W.W. (2000). *Education and Development: Measuring the Social Benefit*, Oxford University Press.
- National Council of Applied Economic Research (1996). *India Infrastructure Report: Policy Implications for Growth and Welfare*. New Delhi, NCAER.
- Palma, A., R. Lindsey, E. Quinet, & Vickerman, R. (Eds.).(2011). *Handbook of Transport Economics*, Edward Elgar.
- Parikh, K.S. (Ed.) *India Development Reports*. Oxford University Press, New Delhi.
- Psacharopoulos, G. (2014). *Economics of Education: Research and Studies*. Pergamon Press, Elsevier Science Ltd.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC9

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.75	1.8	1.9	2.9	2.9	1	2.8	0.8	2.9	2.1	2.9	2.4
CO2	2.6	2.7	2.4	2.4	2.5	2.4	2.7	0.9	2.7	2.7	2.2	2.7
CO3	2.9	2.9	2.3	2.3	2.7	2.3	2.6	0.7	2.6	2.6	2.5	2.2
CO4	2.8	1.9	2.7	1.8	2.6	1	2.2	1.2	2.3	1.9	2.7	2.5
Average	2.76	2.32	2.32	2.35	2.67	1.67	2.57	0.9	2.6	2.32	2.57	2.45

Course Title: Economy of Haryana-I Course Code: MA/ECO/1/DSC10		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, explain and analyze Growth and development of Haryana economy since 1966.	
CO2	Describe and critically analyze growth and reforms in Haryana agriculture sector and evaluate various financing and insurance schemes.	
CO3	Analyze Industrial growth and performance of public sector undertakings in Haryana.	
CO4	Demonstrate knowledge of urban infrastructure, rural electrification and transport sector in Haryana.	
Unit-I Economic Progress of Haryana: Growth and Development of the economy since 1966- Trends and Pattern of GSDP; Policies and strategies of development between 1966 and 1990; Economic Reforms and development since 1991; Demographic transition of Haryana since 1966 and the factors contributed to the demographic change.		
Unit-II Agriculture Sector in Haryana: Agriculture Growth and Performance-Trends in production and productivity; Green Revolution; Land Reforms and Land use pattern; Changes in Cropping Pattern; Agricultural Research and Education; Agriculture Marketing; Crop Insurance Schemes; Finance to Agriculture; Livestock-Fisheries-Water Resources and-Forestry; Agricultural Crisis - Food Security.		
Unit-III Industrial Sector in Haryana: Industry-Growth and Performance; Industrial Backwardness; Mining, Manufacturing and Construction Sector- Issues and Challenges; Performance of State Public Sector Undertakings; Industrial Financing; Problems and prospects of MSMEs; SEZs in Haryana; Labour Welfare Schemes.		
Unit-IV Infrastructural Status: Infrastructure in Haryana; Power Sector: Organizational Structure, Performance; Haryana Electricity Regulatory Commission, Pricing Policies & Finances; Urban Infrastructure and Haryana Urban Development Authority; Rural Electrification; Performance of		

Transport Sector.

Reading List

- Aiyer, S. & Mody, A. (2011). The Demographic Dividend: Evidence from the Indian States (IMF Working Paper No. WP/11/38). Retrieved from IMF's website: <https://www.imf.org/external/pubs/ft/wp/2011/wp1138.pdf>
- Azis, Iwan J. (2020). Regional Economics: Fundamental Concepts, Policies and Institutions. World Scientific Publishing Co. Pvt. Ltd.: Singapore.
- Choudhary, D.R. (2007). *Haryana At Cross Roads: Problems and Prospects*. National Book Trust, India, New Delhi.
- Department of Economic and Statistical Analysis (various issues) *Economics of Farming in Haryana*, Government of Haryana, Panchkula.
- Department of Economic and Statistical Analysis (various issues) *Economic Survey of Haryana*, Government of Haryana, Panchkula.
- Department of Economic and Statistical Analysis (various issues) *Index of Industrial Production in Haryana*, Government of Haryana, Panchkula.
- Department of Economic and Statistical Analysis (various issues) *Statistical Abstract of Haryana*, Government of Haryana, Panchkula.
- Laxmi Narayan and Kavita Bhambu Kaswan (2019). *Haryana Economy: Patterns, Potentials and Prospects*. White Falcon Publishing.
- Planning Commission (2009). *Haryana Development Report*. Government of India, New Delhi.
- Sidhu, Harbans Singh (1991). *Agricultural Development and Rural Labour: A Case Study of Punjab and Haryana*. Concept Publishing Company: New Delhi.
- Singh, M. & Kaur, H. (2004). *Economic Development of Haryana*. Deep & Deep Publications.
- Westley, John R. (2019). *Agriculture and Equitable Growth: The Case of Punjab-Haryana*. Taylor & Francis Group.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC10

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	3	3	2	1	2.5	-	2	2.5	3	2
CO2	3	3	3	2	3	1	2.5	-	3	2	2.5	2
CO3	3	2	2	3	2	1	2.5	-	3	2	2.5	2
CO4	3	3	3	3	3	1	2.5	-	3	2	3	2
Average	3	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2.12	2.75	2

Course Title: Economics of Gender & Development-I Course Code: MA/ECO/1/DSC11	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand importance Gender and Women’s Studies as an academic field of study and be familiar with its history and theories.
CO2	Explain demography of female population with special reference to nutrition, health, education and social and community resources.
CO3	Understand factors affecting decision making by women.
CO4	Demonstrate skills for valuation of women’s productive and unproductive work.

Unit-I

Introduction to Women Studies

Importance and concepts of women studies – women in patriarchal and matriarchal societies and structures, patrilineal and matrilineal systems and relevance to present day society in India; Economic basis and functioning of patriarchy in developed Countries and LDCs, particularly India.

Unit-II

Demographic Aspects

Demography of female population: Age structure, mortality rates, and sex ratio – Causes of declining sex ratios and fertility rates in LDCs and particularly India – Theories and measurement of fertility and its control; Women and their access to nutrition, health, education and social and community resources, and its impact on female mortality and fertility, economic status, and work participation rate.

Unit-III

Women and Decision Making

Factors affecting decision making by women; Property rights; Access to and control over economic resources, assets; Power of decision making at household, class community level; Economic status of women and its effect on work-participation rate, income level, health, and

education in developing countries and India.

Unit-IV

Issues in Women' Work

Concept and analysis of women' work: Valuation of productive and unproductive work, Visible and invisible work, Paid and unpaid-work, Economically productive and socially productive work. Factors affecting female entry in labour market; Supply and demand for female labour in developed and developing countries, particularly India; Studies of female work participation in agriculture, non-agricultural rural activities, informal sector, cottage and small-scale industries, organized industry and services sector.

Reading List

Boserup, E. (1970). *Women's Role in Economic Development*. George Allen and Unwin, London.

Desai, N. & Raj, M.K. (Eds.). (1979). *Women and Society in India*. Research Center for Women Studies, SNDT University, Bombay.

Government of India (1974). *Towards Equality – Report of the Committee on the Status of Women in India*, Department of Social Welfare, Ministry of Education and Social Welfare, New Delhi.

Krishnaraj, M., Sudarshan, R.M. & Shariff, A. (1999). *Gender, Population and Development*. Oxford University Press, New Delhi.

Seth, M. (2000). *Women and Development: The Indian Experience*. Sage Publications, New Delhi.

Srinivasan, K. & Shariff, A. (1998). *India: Towards Population and Development Goals*. Oxford University Press, New Delhi.

Venkateswaran, S. (1995). *Environment, Development and the Gender Gap*. Sage Publications, New Delhi.

Wazir, R. (2000). *The Gender Gap in Basic Education: NGOs as Change Agents*. Sage Publications, New Delhi.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC11

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Universal Humanistic values and Life Skills Course Code: MA/ECO/1/SEC1		Total Credits: 4 Internal evaluation with satisfactory/ unsatisfactory remarks
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understanding the concept and the role of paradigm and principles in strengthening universal values and life skills	
CO2	Understanding the concept and the role of personal vision and leadership	
CO3	Understanding the concept and the role of principles of personal management, interdependence and interpersonal leadership.	
CO4	Understanding the concept and the role of principles of empathic communication, creative cooperation and balanced self-renewal.	
Unit-I Paradigms and Principles: Role of paradigms and principles in strengthening universal humanistic values and life skills; Inside-out approach; Personality ethics and character ethics; Primary and secondary greatness; The Principle centred paradigm; The principles of growth and change; Habits as internalized principles and pattern of behaviour; The journey from dependence to independence and finally to interdependence; Role of P-PC (Production-Productive Capacity) balance in life		
Unit-II Principles of Personal Vision: Definition and role of proactivity in life; The power of principle centred choice and initiative, Focusing on circle of influence and its expansion, Distinction between 'To Be' and 'To Have', Making and keeping commitments. Principles of Personal Leadership: The principle of beginning with the end in mind; Leadership and management- The two creations, Becoming your own first creator, Making a principle centred personal mission statement, Creating ability to use whole brain and two ways to tap the right brain, Identifying the roles and goals towards the mission, Mission sentiments towards the organization and family		
Unit-III Principles of Personal Management and Interdependence: Power of independent will, Role and importance of time management, Exercise to say "NO", Identifying the roles in life,		

Delegation and its effectivity. Emotional bank and its major deposits, Importance of laws for life, Expectations and their clarification, Personal integrity, the powers of interdependence

Principles of Interpersonal Leadership: Cooperation and its role in working, Human interaction and various paradigms related to it, Selecting the best option, The five dimensions of Win/Win, Training and agreements of Win/Win, Role of system and process for Win/Win

Unit-IV

Principles of Empathic Communication: Character communication and empathic listening, Screening of the prescribe, Four autobiographical responses, Understanding and perception, Seek to understand,

Principles of Creative Cooperation: Synergistic communication; Synergy in classroom, business and communication, Fishing for the third alternative, valuing the differences.

Principles of balanced self-renewal: Four dimensions of renewal, balance and synergy in renewal, The upward spiral

Reading List

Covey S. R, (2004) *The Seven Habits of Highly Effective People*, Simon and Schuster Publishers, New Delhi

Neill, M. (2019) *The Inside Out Revolution: The Only Thing You Need to Know to Change Your Life Forever*, Hay House Publishers, UK

Frankl, V. (1992) *Man's Search For Meaning*, Washington Square Publishers

Khera, S. (2005) *You Can Win*, Macmillan India Ltd. (In English and Hindi)

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/SEC1

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	2.75	2.5	2.00	2.00	2.00	2.75	2.90	1.00	1.00	1.00	1.00
CO2	2.5	2.75	2.5	2.00	2.00	2.00	2.75	2.90	1.00	1.00	1.00	1.00
CO3	2.5	2.75	2.5	2.00	2.00	2.00	2.75	2.90	1.00	1.00	1.00	1.00
CO4	2.5	2.75	2.5	2.00	2.00	2.00	2.75	2.90	1.00	1.00	1.00	1.00
Average	2.5	2.75	2.5	2.00	2.00	2.00	2.75	2.90	1.00	1.00	1.00	1.00

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M.A. Economics
2nd Semester

Rpc

San

A Singh

Kamlesh Kumar

Mang Prasad

Course Title: Micro Economics-II Course Code: MA/ECO/2/CC5		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Apply Microeconomic tools to solve real life problems especially under uncertainty and game theory.	
CO2	Able to understand new advances in the theory of firm and think critically analyze economic problems in the context of firm.	
CO3	Adopt different analytical concepts and models in framing development and policy-relevant problems particularly factor pricing and income distribution.	
CO4	Understand the effects of various decisions on welfare of people through general equilibrium analysis.	
Unit-I Oligopoly: non collusive models –Cournot, Bertrand, kinked demand models; Collusive Models: joint profit maximizing market sharing and leadership cartels. Critique of neo-classical theory of firm. Theory of Games – Twp-person, Zero-sum game, Pure and Mixed strategy, Saddle Point Solution.		
Unit-II Alternative theories of firm: Baumol’s Sales maximization model (simple, static without advertisement model) Morris and Williamson Average/full cost pricing, Bain’s limit pricing model, behaviouralist model of Cyert and March.		
Unit-III Neoclassical theory of factor pricing under competitive condition, with monopolistic power in product market, monoposonistic power in factor market, bilateral monopoly in factor market, monopoly in factor market. Product exhaustion problem. Neoclassical theory of rent, quasi-rent, interest and profit. Issues in General Equilibrium analysis		
Unit-IV		

Concept of social welfare, some early criteria, Pareto optimality criterion and efficiency conditions, Bergson's social welfare function, idea of theory of second best and Arrow's impossibility theorem, compensation criterion. Market structure and welfare maximization. Market failure- case of externality and public goods; and ways of correcting it.

Reading List

Bain, J. (1958). *Barriers to New Competition*. Harvard University Press, Harvard.
 Borch, K.H. (1968). *The Economics of Uncertainty*. Princeton University Press, Princeton.
 Da Costa, G.C. (1980). *Production, Prices and Distribution*. Tata McGraw Hill, New Delhi.
 Green, H. & Walsh, V. (1975). *Classical and Neo-Classical Theories of General Equilibrium*. Oxford University Press, London.
 Hansen, B. (1970). *A Survey of General Equilibrium Systems*. McGraw Hill, New York.
 Koutsoyiannis, A. (1979). *Modern Microeconomics (2nd Edition)*. Macmillan Press, London.
 Lipsey, R.G. and Chrystal, K. Alec "An Introduction to Positive Economics: (OUP)
 Salvatore. D. "Microeconomics Theory" (Schaum's Outline series, Tata McGraw Hill).
 Varian, H. (2000). *Microeconomic Analysis*. W.W. Norton, New York.
 Varian, H. (2003). *Intermediate Microeconomics*. East-West Press.
 Weintrub, E.R. (1974). *General Equilibrium Theory*. Macmillan, London.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/CC5

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Macro Economics-II Course Code: MA/ECO/2/CC6	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Learn and explain various theories of demand for money
CO2	Understand the theories of money supply and interest rates.
CO3	Identify the phases of the business cycle/inflation and the problems caused by cyclical fluctuations in the market economy and to show an ability to reflect on how economic shocks affect aggregate economic performance in the short and long term.
CO4	Explain the components of aggregate economic activity in an open economy framework

Unit-I

The Demand for and Supply of Money

The Demand for Money: Classical Approach (Quantity Theory of Money) - Fisher's and Cambridge Version; Keynes Approach (Liquidity Preference Theory); Post Keynesian Approaches - Tobin (Portfolio Balance Approach), Baumol (Inventory Theoretic Approach) and Friedman (Restatement of Quantity Theory of Money)

Supply of Money: Components, Determinants of Money Supply - High Power Money, Money Multiplier

Unit-II

Money and Financial Markets: Role, Structure and Functions of Money; Capital Markets
Inflation: Demand Pull and Cost Push Theories of Inflation; Trade Off and Non Trade Off between Inflation and Unemployment- The Phillips Curve (short Run and Long Run); Inflationary Pressure Curve and the Natural Rate of Unemployment

Unit-III

Process of Income Determination and Trade Cycles

The Investment Multiplier- Static and Dynamic

Unit-IV

Open Economy Macro Economics

Saving and Investment in a Small Open Economy; The Determination of National Income in Open Economy; Demand and Supply of Foreign Exchange; The International Transmission of Disturbance under Fixed Exchange Rate and Flexible Exchange Rate (Mundell- Fleming Model).

Reading List

- Bain, K. & Howells, P. (2009) *Monetary Economics: Policy and its Theoretical Basis*. Macmillan International Higher Education.
- Frisch, H. (1983) *Theories of Inflation*. Cambridge University Press.
- Galbacs, Peter (2015) *The Theory of New Classical Macroeconomics: A Positive Critique*. Springer.
- Gali, J. (2015) *Monetary Policy, Inflation and Business Cycles*, Princeton University Press.
- Handa, Jagdish (2000) *Monetary Economics*, Routledge, London.
- Jha, R. (1991) *Contemporary Macroeconomic Theory and Policy*. Wiley Eastern Limited.
- Levacic, Rosalind & Rebmann, Alexander (2015) *Macroeconomics*, Macmillan, London.
- Lucas, R.E. (1983) *Studies in Business Cycle Theory*, MIT Press.
- Mankiw, Gregory N. (2003) *Macroeconomics*, Worth Publishers.
- Mishkin, F.S. (2016). *The Economics of Money Banking and Financial Markets*. Pearson.
- Romer, David (2012). *Advanced Macroeconomics*. McGraw Hill Education.
- Romer, D. & Mankiw, N. Gregory (1995). *New Keynesian Economics (Volume-2)*. MIT Press.
- Sheffrin, Steven M. (1996) *Rational Expectations*. Cambridge University Press

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/CC6

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	2	2	3	2
CO2	2.5	3	3	2	3	1	2.5	-	3	2	2.5	2
CO3	3	2	2	3	2	1	2.5	-	3	2	2.5	2
CO4	3	3	3	3	3	1	2.5	-	3	2	3	2
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2	2.75	2

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Course Title: Economics of Growth and Development –II Course Code: MA/ECO/2/CC7		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO 1	To know about mutually inter dependence of agriculture and industry and their role in economic development. Roles of institutions and markets in economic development.	
CO 2	To develop an insight in the issues of international trade, theory, policy, promotion and its relationship with growth & development.	
CO 3	To understand about fiscal and monetary policies in economic development and know also about establishing the stability in an economy. Projections about the project by using cost benefit analysis.	
CO 4	To acquaint the students about the needs of plans, techniques of plans. Important roles of new growth theory in economic development.	
Unit-I		
Sectoral Aspects of development; Importance of agriculture and industry in economic development. Role of institutions – Government and Markets. Poverty – indicators and measurement.		
Unit-II		
Trade and development: Trade as an engine of growth, two gap analysis, Prebisch, Singer and Myrdal views, gains from trade and LDCs; Role of foreign Direct investment (FDI) and Multi-national corporations (MNCs) in the emerging scenario.		
Unit-III		
Objects and role of monetary and fiscal policies in economics development; Choice of techniques and appropriate technology; Investment Criteria; Cost-benefits analysis.		
Unit-IV		
Techniques of planning; Plan Models in India; Planning in a market-oriented economy; Endogenous growth; role of education research and knowledge – Explanation of Cross country differentials in economic development and growth.		
Reading List		
<ul style="list-style-type: none"> Adelman, I. (1961). <i>Theories of Economic Growth and Development</i>. Stanford University Press, Stanford. 		

- Ghatak, S. (1986). *An Introduction to Development Economics*. Allen and Unwin, London.
- Higgins, B. (1959). *Economic Development*. W.W. Norton, New York.
- Hirschman, A.O. (1958). *The Strategy of Economic Development*. Yale University Press, New York.
- Kindleberger, C.P. (1977). *Economic Development*. McGraw Hill, New York.
- Lewis, W.A. (1955). *The Theory of Economic Growth*. George Allen and Unwin, London.
- Thirlwal, A.P. (1999). *Growth and Development*. Macmillan, U.K.
- Meier, G.M. & Rauch, J.E. (2005). *Leading Issues in Economic Development*. Oxford University Press, New Delhi.
- Menard, C. & Shirley, M.M. (2008). *Handbook of New Institutional Economics*. Springer Science & Business Media.
- Todaro, M.P. & Smith, S.C. (2003). *Economic Development*. Pearson Education, Delhi.
- Aydin, H. I., Ziolo, M. & Balacescu, A. (Eds.). (2017). *Economic Development: Global & Regional Studies*. IJOPEC Publication, London.
- Todaro, M.P. & Smith, S.C. (2003). *Economic Development*. Pearson Education, Delhi.
- Bhagwati, J. & Desai, P. (1970). *India: Planning for Industrialization*. Oxford University Press, London.
- Brown, M. (1966). *On the Theory and Measurement of Technical Change*. Cambridge University Press, Cambridge, Mass.
- Grossman, G. and E. Helpman (1991). *Innovation and Growth in the Global Economy*. MIT Press, Cambridge, Mass.
- Schultz, Paul T. & Strauss, J. (Eds.). (2008). *Handbook of Development Economics, Vol. 4*. Elsevier, Amsterdam.
- Schultz, T.W. (1968). *Economic Growth and Agriculture*. McGraw Hill.
- Sen, A.K. (Ed.). (1990). *Growth Economics*. Penguin, Harmondsworth.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/CC7

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.7	2.8	2.8	2.7	2.8	.9	2.9	.8	2.9	2.9	2	2.5
CO2	2.4	2	2.5	2	2	1	2.8	.7	2.6	2	2.7	2.6
CO3	2.7	2.7	2.7	2.6	2.7	1	2.6	.5	2.2	2	2.5	2.3
CO4	2.3	2	1.8	1.5	1.8	1.1	2.7	.9	2.8	2.2	2.2	2.7
Average	2.52	2.37	2.45	2.2	2.32	1	2.75	0.72	2.62	2.27	2.35	2.52

Rpc

San

A Singh

Kamlesh Kumar

Manoj Prasad

Course Title: Indian Economy Course Code: MA/ECO/2/DSC13	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO 1	Peep into the history of economic development and critically evaluate the trends in National Income in India.
CO 2	Understand the development of human and physical capital formation in India.
CO 3	Utilize the detailed skills and techniques to address the problems of Indian economy like poverty, inequality, unemployment.
CO 4	Understand the trends in Indian public finances.

Unit – I

Features of Indian economy; Nature and Characteristics of Indian economy; Planning; objectives and strategies; failures and achievements of plans.
 Basic economic indicators – National income, performance of different sectors. Trends in prices and money supply.

Unit-II

Institutional structure: Land-reforms in India; Agricultural marketing and warehousing; Issues in food security – policies for sustainable agriculture; Agricultural finance policy; Agricultural price policy.

Unit-III

Malthusian theory of population, optimum theory of population, theory of demographic transition, population as ‘Limits to Growth’ and as ‘Ultimate Source’
 Concepts of Demography – Vital rates, life tables, composition and uses.
 Measurement of fertility – Total fertility rate, gross and net reproduction rate – Age pyramids, population projections table, stationary and quasi-stationary population; Characteristics of Indian population through recent census.

Unit-IV

Financial Sector: Monetary policy of RBI; Money and Capital markets; Growth and problem; Role of commercial banks in India; Banking sector reforms since 1991.

Reading List

Bardhan. P.K. (9th Edition) (1999), *The Political Economy of Development in India*, Oxford University Press, New Delhi.

Brahmanada, P.R. and V.R. Panchmukhi (Eds.) (2001), *Development Experience in the Indian Economy: Inter-State Perspectives*, Bookwell, Delhi.

Datta, R. and K P. M. Sundhram (latest edition), *Indian Economy*. S. Chand & Company Ltd. New Delhi.

Mishra, S.K and V.K. Puri *Indian Economy-151 Development Experience*, Himalaya Publishing House, Mumbai, Latest Edition.

Meier, Gerald M. (1987). *Pioners in Development*. Oxford University Press, New Delhi.

Ministry of Finance (2020). *Economic Survey*. Government of India.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC13

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.9	2.1	2.1	2.9	2.8	1	2.9	.1	2.9	2.4	2.7	2.5
CO2	2.6	2.8	2	2.5	2.7	1.9	2.7	.1	2.6	2.2	2.6	2.5
CO3	2.2	2.7	2.6	2.1	2.5	2.7	2.3	.8	2.4	2.9	2.4	2.4
CO4	2.5	2	2.4	2	2.4	1.3	2.1	.7	2.7	2.7	2.8	2.3
Average	2.55	2.4	2.27	2.37	2.6	1.72	2.5	0.42	2.65	2.55	2.62	2.42

Course Title: History of Economic Thought-II Course Code: MA/ECO/2/DSC14		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	To understand and analyze economics literature with contribution of socialist thought.	
CO2	To critically analyze the key concepts of democratic capitalist economy and Marxist philosophy.	
CO3	To develop insight into neo-classical thought and marginalist contribution.	
CO4	To analyze the contribution of selected Indian economic thought economists	
Unit-I Economic idea of J.B.Mill, Senior and List, Origin of Socialist Thought.		
Unit-II Socialist Ideas: Sismondi, Saint-Simon and Production. Marxian Philosophy: Dialectical Materialism and Historical Materialism. Marxian theories of value, surplus value, profit and crisis of capitalism.		
Unit-III Marginalist Revolution: Jevons, Walras, Manger, Neo-classical thought: Marshall. Welfare Economics: Hobson and Pious.		
Unit-IV Indian Economic Thought Ancient Indian Economic Thought: Kautilya; Valluvar Founders of Indian Economics: Dadabhai Naoroji, G.K. Gokhale, R. C. Dutt and M. Visvesvaraya.		
Reading List Blackhouse, R.: A History of modern Economic Analysis, Basil Blackwell, Oxford, 1965. Screpanti, Ernesto. & Stefano Zamagni: An outline of the History of Economic Thought, Clarendon Press 1995. Ganguli, B.N : Indian Economic Thought: A 19th Century Perspective. Tate McGraw Hill		

New Delhi, 1977.

Gandhi, M.K (1947) India of My Dreams, Navajivan Publishing House, Ahmadabad, 1947, Gide, C. and G. Rist: A History of Economic Doctrines (2nd edition) Longman Group, London. 1980.

Kautilya: The Arthashastra, Edited, Rearranged, Translated and Introduced by L.N. angarajan, Penguin Books, New Delhi, 1992.

Naoroji, Dadabhai: Poverty and Un-British Rule in India.

Roll, E.: A History of Economic Analysis, Oxford University Press, New York, 1954.
Schumpeter, J. A.: History of Economic Analysis, Oxford University Press, New York, 1954.

Spiegel, H. W.: The Growth of Economic Thought, 1991.

Seshadri, G.B.: The Growth of Economic Thought, 1991. Harney , L.H.: History of Economic Thought, 1949. Mandel, E.: Marxist Economic Theory, 1968.

Visesvaraya, M.: Planned Economy of India.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC14

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2	3	2	3	2	2	2.5	-	2	2	2	2
CO2	2.5	3	2	2	3	2	2.5	-	2	2	2	2
CO3	2	2	2	2	2	2	2.5	-	2	3	2	2
CO4	2.5	3	2	3	3	2	2.5	-	2	3	2	2
Average	2.25	2.75	2	2.5	2.5	2	2.5	-	2	2.5	2	2

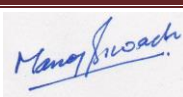
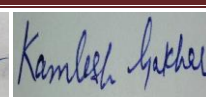
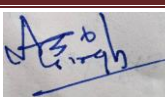
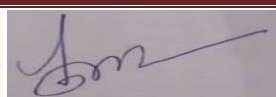
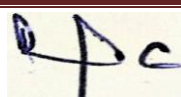
Course Title: Financial Economics-II Course Code: MA/ECO/2/DSC15		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand the risk and return relationship and compute yields of bond portfolio.	
CO2	Understand and apply the portfolio construction, and asset pricing.	
CO3	Understand and apply the fundamental and technical analysis, and efficiency tests of stock markets.	
CO4	Understand the concept and valuation of derivatives and design hedging strategies.	
Unit-I		
Investment Analysis The investment environment; Asset Classes and Financial Instruments; Risk- Return Analysis; Risk Aversion and Capital Allocation to Risky Assets; Bond Prices and Yields; Term Structure of interest Rates, Managing Bond Portfolio.		
Unit-II		
Portfolio Optimization Equity valuation Models; Portfolio Analysis; Markowitz Model, Sharpe Index Model, Capital asset pricing Model, Arbitrage Pricing Theory.		
Unit-III		
Security Analysis and Theory of Options Fundamental and Technical Security Analysis; Efficient market Theory; Introduction to Option markets; Option Valuation- Binomial Option pricing, Black – Scholes Option Pricing Model.		
Unit-IV		
Options Hedging, Future Markets and Mutual Funds Options Hedging strategies – Delta, Gamma, Theta, Vega and Rho; Futures Markets Trading and valuation; Portfolio performance Evaluation; Economics of Mutual Funds - Sharpe, Treynor and Jensen Performance Index.		

Reading List

Bodie, Z., Kane, A. & Marcus, A.J. (2017). *Investments*. McGraw Hill Education.
Grinold, R.C. & Kahn, R.N. (1999). *Active portfolio Management*. McGraw Hill.
Hull, J. (1993). *Options, Futures and Other Derivative Securities*. Prentice Hall.
Kolb, Robert (1996). *Financial Derivatives*. Wiley.
Reilly, F.K. & Brown, K.C. (2012). *Investment Analysis and portfolio management*. South-Western Cengage Learning.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC15

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.9	2.8	2.75	1.8	2.7	2.7	2.8	0.5	2.8	2.9	2.8	2.4
CO2	2.34	1.9	1.5	2.7	2.6	1.1	2.7	0.7	2.4	1.9	2.4	1.9
CO3	2.6	1.7	2.8	2.6	1.9	1.2	2.3	0.9	2.7	2.7	2.9	1.8
CO4	2.8	1.5	1.7	1.7	1.6	0.9	2.4	0.1	2.3	1.7	2.8	2.3
Average	2.66	1.97	2.18	2.2	2.2	1.47	2.55	0.55	2.55	2.3	2.72	2.1



Course Title: Mathematical Economics-II Course Code: MA/Eco/2/DSC16	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand, explain, solve and design production functions, cost function, efficiency and producer behaviour using mathematical tools.
CO2	Compute and interpret equilibrium price, output and profits of firms under different market conditions using mathematical tools.
CO3	Understand the technique of linear programming and attain ability to analyze the optimum behavior of consumers, investors, firms, and governments.
CO4	Understand the techniques of game theory As well as input –output and attain ability to use these concepts to analyze the optimum behavior of consumers and firms in risk and uncertainty.

Unit-I

Production Function Analysis: Production functions and their properties (CD, CES); Elasticity of factor substitution and curvature of isoquants, Producer’s equilibrium; Duality in cost and production functions; Methods for measuring productivity and efficiency.

Unit-II

Market Structure: Perfect Competition: equilibrium of firm, supply curve and shut down point. Monopoly: equilibrium of firm, price discrimination and multi-plant monopolist. Duopoly and oligopoly: Cournot’s Model; Stackelberg’s model, Joint profit maximization; Price leadership model.

Unit-III

Linear programming: Basic concept, Nature of feasible, basic and optimal solution; Solution of linear programming problem through graphical and simplex method, problem of degeneracy. Concept of dual and its interpretation. Shadow prices and its uses.

Unit-IV

Game Theory and Input- Output: Game Theory: Concept of a game; Two-person Zero-sum game; value of a game; strategies- pure and mixed; Dominance rule; Solution of a game

by linear programming. Nash equilibrium.

Introduction to input-output analysis: Open input-output -Meaning, assumption, transaction matrix, solution and value added. Hawkins-Simon conditions and closed input-output.

Reading List

Allen, R.G.D. (1972). *Mathematical Economics*. Macmillan, London.

Allen R.G.D. (2002). *Mathematical Analysis for Economists*. Macmillan Press and ELBS, London.

Chiang, A.C.(2006). *Fundamental Methods of Mathematical Economics*. McGraw Hill, New York.

Chung, J.W. (1994). *Utility and Production: Theory and Applications*. Basil Blackwell, London.

Aggarwal, C.S. and R.C. Joshi (2011). *Mathematics for students of Economics*. New Academic publishing Co. Jalandhar.

Henderson, J. M. & Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach*. McGraw Hill, New Delhi.

Koutsoyiannis, A. (1979). *Modern Microeconomics*. Macmillan Press, London.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC16

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
CO2	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
CO3	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
CO4	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
Average	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75

<p>Course Title: Micro Finance Theory & Practice-II Course Code: MA/Eco/2/DSC18</p>	<p>Theory Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20</p>	<p>Practical Credits:2 Time: 3 Hrs. Marks: 50 End Term: 30 Practical Record: 10 Viva Voce: 10</p>
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Note for the paper Setter

The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.

Course Outcomes

CO1	Evaluate potential locations, identify and source potential customer groups. Assist in application and loan disbursement process, and collect fees and installments. Cross-sell other products of the organization.
CO2	Follow-up with the Microfinance customers whose repayment of dues have been delayed for their recovery. Maintain various records in a systematic way for later retrieval.
CO3	Communicate in an effective manner with customers and colleagues in order to ensure high level of customer service. Maintain integrity of transactions and ensure data security.
CO4	Demonstrate that high levels of ethics are exhibited at every stage of work. Work in teams towards a common goal which is in line with the goal of the organizations.

Unit-I (Theory)

Disburse Micro Finance Loan: Process of disbursement of loan, Genuineness of customer documents, personal discussions and formalities with the customer before disbursement, areas of due diligence. Concept of Special Mention Cases and NPAs; bucketing of asset products into Standard Assets, Sub-standard Assets, Doubtful assets and Loss assets; personal attributes in the process of recovery; Differentiate between intentional defaulter and financial defaulter; procedure of debt recovery; process of credit counseling & debt management plan with case studies; Do's and don'ts in recovery process as prescribed by IBA; legal aspects involved in repossession of securities.

Unit-II (Theory)

Integrity and Ethics: Ethical behavior and refrain from indulging in unfair trade and/or corrupt practices; process to maintain records meticulously; Value and protect of customer's information, data and information related to business or commercial decisions; misrepresentation or misinformation; ethics in day-to-day processes; Avoidance of

defaming products and services of competition.

Unit-III (Practical)

Soft Skills: Discuss the basics of communication; Apply various forms of communication; List down various factors that make communication effective; Demonstrate interpersonal skills and negotiations skills; Practice the art of handling difficult customers.

Communicate Effectively: Employ attentive listening and paraphrase in order to understand the customer, demonstrate sensitivity to: language, gender, cultural and social differences in addressing customers, superiors & colleagues, positive attitude, correct body language, dress code and gestures and etiquette.

Unit-IV (Practical)

Customer Satisfaction: List down work output requirements, and receive feedback with positive attitude; Demonstrate cooperation, coordination, and collaboration to achieve shared goals; Analyse and address problems by educating, eliminating or escalating; Aim to gain customer loyalty and satisfaction.

Teamwork: Share relevant inputs, feedback and insights to build mutual trust; Exchange, defend and rethink ideas; Support team members to accomplish goals; Facilitate group decision and use conflict management techniques to deal with conflict productively.

Reading List

Ahlawat, S. (2015). *Micro Finance: Group Based Working*. Write & Print Publication, Delhi. ISBN: 978-93-8464-910-4.

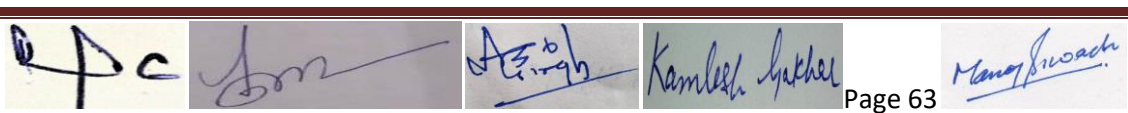
Hearth H.M.W A. (2018). *Micro Finance Theory and Practice*. Acmillan S. Godage & Brothers (Pvt) Ltd, Colombo, Sri Lanka. ISBN: 978-955-30-9258-8.

Rana O.C. and Hemraj (.2016). *Micro Finance*. Himalaya Publishing House. New Delhi ISBN: 978-93-5202-104-

Note: Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed. It will have a weightage of 2 Credits.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC18

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	2	2	2.5	3	2	-	3	2.5	2	2
CO2	3	2	2	2	1.5	2	2	3	3	2.5	2	2
CO3	3	3	3	2	2.5	3	3	2	3	2.5	2	2.5
CO4	3	3	3	2	2.5	2	3	2	3	2.5	3	2.5
Average	3	2.75	2.5	2	2.25	2.5	2.5	1.75	3	2.5	2.25	2.25

Course Title: Research Methodology Course Code: MA/ECO/2/DSC19	Total Credits: 4	
	Theory Credits: 2 Time: 3 Hrs. Total marks: 50 External marks: 30 Internal marks: 20	Practical Credits: 2 Total marks: 50 Report on ROL: 30 Data collection: 10 Viva Voce marks: 10
Note for the paper Setter The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.		
Course Outcomes		
CO1	Understanding the various types, objectives and characteristics of research in social Sciences. Also, students will know about selection of research problem.	
CO2	Students will be able to know about various types of hypothesis and ethics in social sciences.	
CO3	Students will learn the skill about to prepare the review of literature and various research design in social sciences.	
CO4	Understanding about the skill to collect the data from various sources through questionnaire/ Schedule etc.	
Unit-I (Theory) Research: Meaning, purpose, Significance and Types of Research. Social Research: Meaning, Characteristics, objectives and fundamental concepts of Social Research. Research Problem: Definition and Statement of the Problem, criteria techniques and precautions involved in detaining the problem.		
Unit-II (Theory) Hypothesis: Meaning, features, Significance, types, Sources and criteria of a Good Hypothesis Scientific Method: Meaning Characteristics stages and Limitations of scientific method. Problem of values, objectivity and ethical issues of Research in Social Sciences.		
Unit-III (Practical) Review of Related Literature: Meaning and Purpose. Presentation on exploring and locating the Sources of relevant literature. Presentation for analysing the reviewed literature. Prepare and submit a report on collected review. Research Design: Meaning, features, Need and types of Research Design. Experimental Design in Social Research.		
		

Unit-IV (Practical)

Practice to explore the various sources of secondary data, Presentation on various techniques of Primary data collection, Hands on to develop a questionnaire/schedule, Presentation of developed questionnaire/schedule, to collect and submit the fulfilled questionnaire/schedule assigned in the class.

Suggested Readings

Jain, B. M. (1995) *Research Methodology*, Research Publications (Hindi), Jaipur.

Kothari, C.R. (2002) *Research Methodology: Methods & Techniques* (2nd Ed.), WishwaPrakashk, New Delhi, (Reprint), 2002.

Pearsons, C.J. (1973) *Thesis & Project Work, A Guide to Research & Thesis Writing*, Allen & Unwin, London.

Thakur, D. (2003) *Research Methodology in Social Sciences*, Deep & Deep Publication, New Delhi.

Note: Students are required to prepare a report on review of literature. For this, topic will be finalized with consent of the concerned teacher. Students are required to appear in the viva-voce examination based on the report for which an external examiner will be appointed.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC19

Course Outcomes	PO 1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.75	3	3	3	3	2.75	2.75	2	2.75	2.75	2.75	2.5
CO2	2.5	3	3	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.5
CO3	2.75	2.75	3	2.75	2.75	2.75	2.75	2	2.75	2.5	2.75	2.75
CO4	3	3	3	3	3	2.75	2.75	2.5	2.75	2.5	3	2.5
Average	2.75	2.94	3.00	2.81	2.81	2.75	2.75	2.31	2.75	2.63	2.81	2.56

Course Title: Labour Economics-II Course Code: MA/ECO/2/DSC20		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	To understand the issues in wage determination, productivity and efficiency.	
CO2	To analyze the issues in trade unionism and understand the labour legislation in context of industrial relations.	
CO3	To analyze the social security of workers and state policy in this context.	
CO4	To understand the specific issues of labour market like child labour, gender discrimination, labour reforms and globalization.	
Unit-I Non-wage component of labour remuneration; Productivity and wage relationship; National wage policy; Wages and Wage Boards in India; Bonus system and profit sharing.		
Unit-II Theories of labour movement – Growth, pattern and structure of labour unions in India, achievements of labour unions; Causes of industrial disputes and their settlement and prevention mechanism.		
Unit-III Role of tripartism; Current trends in collective bargaining; Role of judicial activism; labour legislation in India with special reference to the Trade Union Act 1923, Industrial Disputes Act 1947 and Factories Act 1948.		
Unit-IV State and social security labour – Concept of social security and its evolution; Review and appraisal of state policies with respect to social security and labour welfare in India. Special problems of labour; Child labour, female labour, discrimination and gender bias in treatment of labour; Labour market reforms – Exit policy, need for safety nets, measures imparting flexibility in labour markets; Globalization and labour markets.		
Reading List Breman, J. (1996). <i>Footloose Labour: Working in India's Informal Economy</i> . Cambridge University Press.		

- Desphande L.K. & Sandesara, J.C. (Eds.). (1970). *Wage Policy and Wages Determination in India*. Bombay University Press, Bombay.
- Deshpande, S., G. Standing & L.K. Deshpande (1998). *Labour Flexibility in a Third World Metropolis*. Commonwealth Publishers, New Delhi.
- Hajela, P.D. (1998). *Labour Restructuring in India: A Critique of the New Economic Policies*. Commonwealth Publishers, New Delhi.
- Hauseman, S. (1991). *Industrial Restructuring with Job Security*. Harvard University Press, Cambridge.
- Hicks J.R. (1932). *The Theory of Wages*. Clarendon Press, Oxford.
- Konig, H. (1990). *Economics of Wage Determination*. Springer Berlin Heidelberg.
- Madan, B.K. (1977). *The Real Wages of Industrial Workers in India*. Management Development Institute, New Delhi.
- Mazumdar, D. (1989). Micro-economic Issues of Labour Markets in Developing Countries (EDI Services Paper No. 40). World Bank, Washington D.C.
- Memoria, C.B. (1966). *Labour Problems and Social Welfare in India*. Kitab Mahal, Allahabad.
- MHRD, GOI (1987). *Shram Shakti: Report of the National Commission on Self-employed Women and Women Workers in the Informal Sector*. Ministry of Human Resources Development, New Delhi.
- Misra, L. (2000). *Child Labour in India*. Oxford University Press, New Delhi.
- Papola, T.S., Ghosh P.P. & Sharma, A.N. (Eds.). (1993). *Labour, employment and Industrial Relations in India*. B.R. Publishing Corporation, New Delhi.
- Punekar, S.D. (1978). *Labour Welfare, Trade Unionism and Industrial Relations*. Himalaya Publishing House, Bombay.
- Ratnam, C.S. Venkata (2001). *Globalization and Labour-Management Relations: Dynamics of Change*. Sage Publications/Response Books, New Delhi.
- Riveros, L. (1990). *Labour Market Policies and Labour Market Reforms in Socialist Economies*. World Bank, Washington D.C.
- Sach, J. (1990). Social Conflict and Populist Policies in Latin America. In R. Brunnetta and C.D. Aringa (Eds.), *Labour Relations and Economic Performance*. Macmillan, Basing Stoke.
- Singh V.B. (Ed.). (1970). *Industrial Labour in India*. Popular Prakashan, Bombay.
- Standing G. & Tokman, V. (Eds.). (1991). *Towards Social Adjustment*. ILO, Geneva.

CO-PO and CO-PSO Matrices for the Course MA/ECO/2/DSC20

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	2	2	3	2
CO2	3	3	2.5	2	3	1	2.5	-	3	2	2.5	2
CO3	2.5	2	2	3	2	1	2.5	-	3	3	2.5	2
CO4	3	3	2.5	3	3	1	2.5	-	3	2	3	2

Average	2.75	2.75	2.5	2.75	2.5	1	2.5	-	2.75	2.25	2.75	2
Course Title: Economics of Infrastructure-II Course Code: MA/ECO/2/DSC21											Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30	
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.												
Course Outcomes												
CO1	Understand and analyze the problems of water supply and telecom infrastructure and come out with some positive and normative solutions in these areas.											
CO2	Understand, analyze and interpret the economics of energy, its management and pricing and coming out with some suggestive policies.											
CO3	Understand the urbanization process and its economics and to further synthesize the knowledge of models to provide practical solutions to the problems of urbanization using appropriate tools.											
CO4	Understand the development as well as problems of health infrastructure and its status in India along with knowing the inequality and institutional issues related with health sector.											
Unit-I												
Water Supply and Telecommunication												
Water supply: Water utilities, urban and rural water supply; Telecommunication: Telecom reforms in India with a critique of national telecom policy; Relationship between TRAI, Department of telecom, and public and private operators; Role of telecom infrastructure in meeting needs of the economy and the IT sector.												
Unit-II												
Economics of Energy												
Availability and Supply of Different Sources of Energy; Supply Constraints; Supply Scenario and Investment Requirements; Determinants of Energy Demand; Estimating Energy Demand; Price and Income Elasticity; Demand - Supply Gap; Need for Energy Demand Management; Renewable Energy Options; Methods and Principles of Energy Pricing												
Unit-III												
Theory of Urbanization												
The Process of Urbanization- Nature and Dimensions; Clusters and Agglomeration; Sub-												

urbanization; Christaller's Central Place Theory; Urban Economic Base and Urban Growth; The Human Ecological Approach to Urban Growth; City Size and Urban Growth; Urban Size: Ratchet-Rank Size Rule; Optimum City Size; Urban Spatial Structure - Features; Urban Residential Land Use Models: Von Thunen, Alonso, Muth, Siegel, Park Burgess.

Unit-IV

Economics of Health

Health and economic development; Determinants of Health – poverty, malnutrition, illiteracy and lack of information; Economic dimensions of health care – Demand and supply of health care; Financing of health care and resource constraints; Inequalities in health – class and gender perspectives; Institutional issues in health care delivery; Development of health infrastructure in Indian plans.

Reading List

- Athreya, M.B. (1996). India's telecommunications policy: a paradigm shift. *Telecommunications Policy*, 20(1), 11-22.
- Bish, Robert L. & Nourse, Hugh O. (1975). *Urban Economics and Policy Analysis*. McGraw Hill Kogakusha Ltd. Tokyo.
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- Heilbrun, James (1981). *Urban Economics and Public Policy*. St Martin's Press, New York.
- Hirsch, W.E. (1973). *Urban Economic Analysis*. McGraw-Hill Book Company, New York.
- Munasinghe, M. & Meier, P. (1993). *Energy Policy Analysis and Modeling*. Cambridge University Press, U K.
- Morris, S., Devlin, N. & Parkin, D. (2007). *Economic Analysis in Health Care*. John Wiley & Sons Ltd., England.
- O' Sullivan, Arther (2007). *Urban Economics*. McGraw Hill Higher Education, Boston.
- Planning Commission, Government of India. Five Year Plan Documents (6th to 12th Plan). New Delhi.
- Richardson, H.W. (2013). *The New Urban Economics and Alternatives*. Routledge.
- Smith P.L. & Staple, G. (1994). Telecommunication sector reforms in Asia: towards a new pragmatism (World Bank discussion paper no. 232). World Bank, Washington D.C.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC21

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.9	2.7	2.9	2.9	2	1	2.9	.1	2.75	2.9	2.9	2.5
CO2	2.8	2.2	2.6	1.9	2.6	1	2.6	.7	2.6	2.4	2.7	2.1
CO3	2.7	2.4	2.4	2.7	2	1	2.5	.6	2.5	2.2	2.6	2

CO4	2.6	2.5	2.1	2.6	2.7	1	2.5	.8	2.7	2.1	2.2	2.4
Average	2.75	2.45	2.5	2.52	2.32	1	2.62	0.55	2.63	2.4	2.6	2.25

Course Title: Economy of Haryana-I1 Course Code: MA/ECO/2/DSC22	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Explain growth of social infrastructure in Haryana and analyze regional, social and gender disparities.
CO2	Discuss nature and magnitude of poverty, unemployment and emigration in Haryana.
CO3	Explain and analyze the evolution of planning and fiscal management in Haryana
CO4	Analyze various environment issues and policy framework and regulatory mechanisms to control pollution.

Unit – I

Social Infrastructure: Basic health indicators; Educational development; Factors of Educational transition; Current Issues in Education and health; Tendencies of Exclusion; Haryana’s Development Experience: Regional, Social and Gender Disparities; Human Development.

Unit – II

Poverty and Emigration: Nature and magnitude of poverty since 1966; Anti-Poverty Strategies; Economic inequality; nature and magnitude of unemployment since 1966; Factors for high rates of unemployment; Labour flexibility and labour policy; Trends and pattern of emigration; Problems of emigration; Economic impacts of emigration.

Unit – III

Planning and State Finance: Plan performance of the state; Plan performance of Local Self Governments; Decentralised Planning; Resource mobilization; Structure of revenue and expenditure of the state; Nature of fiscal crisis- its causes and consequences; State Finance Commissions; Fiscal Management in Haryana- a critical Appraisal.

Unit – IV

Environmental Issues: Sources of pollution-deforestation, soil erosion, air and water; Policy framework and regulatory mechanisms to control pollution; Waste management; Tourism and Environmental impact.

Reading List

Choudhary, D.R. (2007). *Haryana At Cross Roads: Problems and Prospects*. National Book Trust, India, New Delhi.

Department of Economic and Statistical Analysis. *Economic Survey of Haryana (various issues)*. Government of Haryana, Panchkula. Department of Economic and Statistical Analysis, Government of Haryana. *Economic Survey of Haryana (various issues)*. Panchkula.

Department of Economic and Statistical Analysis, Government of Haryana (2012). *Employment and Unemployment Situation in Haryana (Publication No. 1034)*. Retrieved from <http://esaharyana.gov.in/Portals/0/64-employment-and-unemployment-situation-in-haryana.pdf>

Department of Economic and Statistical Analysis, Government of Haryana. *Economic Survey of Haryana (various issues)*. Panchkula.

Department of Economic and Statistical Analysis, Government of Haryana. *An Analysis of State Finances (various issues)*. Panchkula.

Laxmi Narayan & Kaswan, Kavita Bhambu (2019). *Haryana Economy: Patterns, Potentials and Prospects*. White Falcon Publishing.

Planning Commission (2009). *Haryana Development Report*. Government of India, New Delhi.

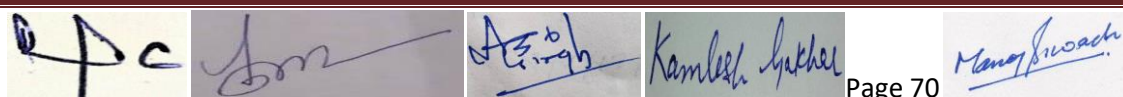
Planning Commission (2009). *Haryana Development Report*. Government of India, New Delhi.

R. Irudaya, S. & Summeetha M. (Eds.). (2020). *Handbook of Internal Migration in India*. Sage Publications.

Singh, M. & Kaur, H. (2004). *Economic Development of Haryana*. Deep & Deep Publications.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC-22

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	2	2	3	2
CO2	2.5	3	3	2	3	1	2.5	-	3	2	2.5	2
CO3	3	2	2	3	2	1	2.5	-	3	2	2.5	2
CO4	3	3	3	3	3	1	2.5	-	3	2.5	3	2
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2.12	2.75	2



Course Title: Economics of Gender & Development-II Course Code: MA/ECO/2/DSC23		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand and analyze structure of wages and determinants of wage differentials.	
CO2	Analyze the impact of technological development and modernization on women's work participation.	
CO3	Understand and explain gender specific ecological concerns.	
CO4	Review legislation for women's entitlements, protection of property rights and social security.	
Unit-I		
Wage Structure and Wage Differential Wage differential in female activities; Determinants of wage differentials: Gender, education, skill, productivity, efficiency, opportunity; Structure of wages across regions and economic sectors.		
Unit-II		
Technical Changes and Women Impact of technological development and modernization on women's work participation in general and in various sectors such as agriculture, non-agriculture rural activities, small and cottage industries and organized industry.		
Unit-III		
Latest Concerns & Developments and Women Female activities, ecological and environmental concern: the two way relationship - Role of new technologies for helping women – Provision of information and training for simple harvesting of economic services.		
Unit-IV		
Issues in Empowering Women Review of legislation for women's entitlements, protection of property rights, social security; Gender and development indices; Mainstreaming gender into development policies; Gender-planning techniques; Gender sensitive governance.		

Reading List

- Boserup, E. (1970). *Women's Role in Economic Development*. George Allen and Unwin, London.
- Desai, N. & Raj, M.K. (Eds.). (1979). *Women and Society in India*. Research Center for Women Studies, SNDT University, Bombay.
- Government of India (1974). *Towards Equality – Report of the Committee on the Status of Women in India*, Department of Social Welfare, Ministry of Education and Social Welfare, New Delhi.
- Krishnaraj, M., Sudarshan, R.M. & Shariff, A. (1999). *Gender, Population and Development*. Oxford University Press, New Delhi.
- Seth, M. (2000). *Women and Development: The Indian Experience*. Sage Publications, New Delhi.
- Srinivasan, K. & Shariff, A. (1998). *India: Towards Population and Development Goals*. Oxford University Press, New Delhi.
- Venkateswaran, S. (1995). *Environment, Development and the Gender Gap*. Sage Publications, New Delhi.
- Wazir, R. (2000). *The Gender Gap in Basic Education: NGOs as Change Agents*. Sage Publications, New Delhi.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC23

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Business Correspondent and Business Facilitator-I		Total Credits: 4
Course Code: MA/ECO/2/SEC2		Time: 3 Hrs.
		Marks: 100
		External: 70
		Internal: 30
Note for the Paper Setter		
The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Learn about basic financial tools and techniques and attain technical knowledge about banking products and processes.	
CO2	Understanding the basic banking products and processes with government schemes.	
CO3	Understanding technical knowledge about banking products and processes, Assist with application process and develop learn to facilitate and/or execute cash or cashless transaction.	
CO4	Learn about on-going services, effective communicate and maintain customer-centric service orientation. To have general discussion on maintaining integrity and ethics.	
Unit-I		
<i>Basic Financial Arithmetic:</i> Calculating percentage, simple and compound interest, rate of return of an investment; concept of economy, finance and financial statements.		
<i>Technical knowledge about banking products and processes:</i> Differentiation between various banking products (loans, deposits, etc.); Distinguish between various types of deposits; Description of various principles of lending for different loans (housing, vehicle, rural and personal loans)		
Unit-II		
<i>Technical knowledge about banking products and processes:</i> Role, function and structure applicable to business correspondents; banking regulations that are applicable to business correspondents; Process for updation of records in the system; Government Schemes (Jan Dhan Yojana, Atal Pension Yojana and)		
Unit-III		

Technical knowledge about banking products

and processes): Government Schemes (Sukanya Samruddhi Yojana, Ayushman Bima Yojana, Pradhan Mantri MUDRA Yojana, Pradhan Mantri Suraksha Bima Yojana and Pradhan Mantri Jeevan Jyoti Bima Yojana).

Assist with application process: Describe the process of account opening, application form and documentation;

Explain the list of documents required for KYC and their relevance (proof of income documents, proof of aged document and identity proof documents); Demonstrate filling an Account Opening Form; Summarize the areas of critical importance while filling of application form and documentation.

Facilitate and/or execute cash or cashless transactions: Describe the process for cash withdrawals and cash deposits with documents required for the transaction; explain the importance/relevance of recording transactions conducted on behalf of customers; explain the SOP for security procedures for handling cash / cheque transactions; demonstrate ways of handling queries related to cash / non-cash transactions with customer.

Unit-IV

Provide on-going services: Explain the importance of follow up visits for post-sales services and recovery of loan accounts; demonstrate the ways to handle queries and grievances related to regular banking transactions and loans; describe the process for updating address and nominee details in bank account, etc.

Communicate effectively and maintain customer-centric service orientation: Discuss the importance of gender sensitivity, culture and social factors w.r.t communication; explain the ways to handle irate customer and the process of escalating customer concerns; discuss the importance of maintaining clarity, honesty and transparency in dealing with customers and colleagues; demonstrate different types of voice modulation; discuss the importance of body language and its impact on communication

Maintain integrity and ethics: Describe code of conduct and business ethics; discuss rules and regulations of maintaining records and information security; demonstrate ways to avoid misrepresentation/misinformation about the organization; demonstrate ethical ways to create positive brand image of the organization.

Focus on teamwork: Discuss ways to develop healthy team environment; discuss ways to share relevant inputs, feedback and insights to build mutual trust; discuss ways to exchange, defend and rethink ideas; demonstrate support to team members to accomplish goals.

Reading List

Indian Institute of Banking and Finance (2018) *Inclusive Growth through Business Correspondent*, Taxmann Publication Pvt. Ltd., New Delhi.

Blackburn, A. C. (1965) *Pocket Book of Business Correspondent*, EVANS Brothers Ltd.

AIJECT Content Group (2017) *Business Correspondent and Business Facilitator*

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/SEC2

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
CO2	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
CO3	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
CO4	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
Average	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50

M.A. Economics
3rd Semester

RPC

San

A Singh

Kamlesh Kumar

Mang Prasad

Course Title: International Trade-I Course Code: MA/Eco/3/CC8	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand, explain, compare and critically evaluate the classical and neo classical trade theories.
CO2	Learn, compare and critically evaluate the new trade theories and their relevance in today's scenario.
CO3	Understand the theories of protection and develop the ability to appreciate the economic integration and its impacts.
CO4	Comprehend various models of balance of payment and analyze recent example of it.

Unit – I

The pure theory of international trade- Theories of absolute advantage, comparative advantage and opportunity costs, modern theory of international trade; Theorem of factor price equalization; Empirical testing of the theory of absolute cost and comparative cost-Heckscher-Ohlin theory of trade. Kravis and Linder theory of trade Role of dynamic factors, i.e. change in tastes, technology and factor endowments in explaining the emergence of trade.

Unit – II

The Rybczynski theorem-concept and policy implications of immiserizing growth; Causes of emergency and measurement of intra-industry trade and its impact on developing economies. Measurement of gains from trade and their distribution; Concepts of terms of trade, their uses and limitations for less developed countries; Trade as an engine of economic growth; welfare implications-empirical evidence and policy issues.

Unit – III

The theory of interventions (Tariffs, Quotas and non-tariff barriers); Economic effects of tariffs and quotas on national income, output, employment, terms of trade, income distribution and Balance of payments on trading partners both in partial and general equilibrium analysis. The political economy of non-tariff barriers and their implications;

Trade under imperfectly competitive market.

Unit – IV

Meaning and components of balance of payments; Equilibrium and disequilibrium in the balance of payments; The process of adjustment under system of gold standard, fixed exchange rates and flexible exchange rates; Expenditure-reducing and expenditure-switching policies and direct controls for adjustment; Policies for achieving internal and external equilibrium simultaneously under alternative exchange rate regimes; a critical review of the Absorption and monetary approaches to the theory of balance payment adjustment.

Reading List

- Alexander, S.S. (1959). Effects of Devaluation on Trade Balance. *American Economic Review*, 49, 21-42.
- Batra, R. N. (1973). *Studies in the Pure Theory of International Trade*. St. Martin's Press, August.
- Bhagwati, J. N. (1987). *International trade: Selected readings*. MIT Press, Cambridge.
- Ethier, W. J. (1995). *Modern International economics*. W.W. Norton & Co.
- Helpman, E. & Krugman, Paul R. (1989). *Trade policy and market structure*. The MIT Press.
- Heffernan, S. & Sinclair, P. (1991). *Modern International economics*. Wiley-Blackwell.
- Jhonson, H. (1958). *International trade & economic growth*. Harvard University Press, Cambridge.
- Kreinin, M.E. & Officer, L.H. (1981). *The Monetary Approach to the Balance of Payment: A Survey* (Princeton Studies in International Finance No. 43). Princeton University.
- Krugman, Paul R. (1994). *Rethinking international trade*. MIT Press.
- Lindert, P. H. & Pugel, T. A. (2008). *International Economics*. McGraw-Hill.
- McCallum, Bennett T. (1996). *International Monetary Economics*. Oxford University Press, New York.
- Stern, R.M. (2017). *The Balance of Payments: Theory and Economic Policy*. Routledge.
- Thirlwal, A.P (1999). *Balance of Payments Theory*. Oxford University Press, New York.
- Vernon, Raymond (1966). International Investment and International Trade in the Product Cycle. *Quarterly Journal of Economics*, 80(2), 190-207.

CO-PO and CO-PSO Matrix for the Course MA/Eco/3/CC8

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	3	3	2.5	3	2	-	3	3	3	2
CO2	3	2	3	3	3	2	2	-	3	3	3	2
CO3	3	2	3	3	2.5	3	3	-	3	3	3	2
CO4	3	2	3	3	3	3	3	-	3	3	3	2
Average	3	2	3	3	2.75	2.75	2.5	-	3	3	3	2

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Course Title: Political Economy of Development-I Course Code: MA/ECO/3/CC9		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, explain and apply the different theories of cognition, root and growth of knowledge, truth and its Criterion along with the ability to think critically and analyze the prevailing conditions of society.	
CO2	Understand and able to analyze the basics of Idealism& Materialism, Metaphysics & Dialectics, Dialectical Materialism and Laws of Dialectics along with the ability to think critically and analyze the prevailing conditions of society.	
CO3	Familiar with mode of production and Social Superstructure and its elements, Historical Materialism, Fundamental law of Social Development, Economic laws and their utilization along with the ability to think critically and analyze the prevailing conditions of society.	
CO4	Understand the rise of private property and features of different stages of economic development along with the ability to think critically and analyze the prevailing conditions of society.	
Unit-I Theory of Cognition: Roots of the Knowledge and Growth of the knowledge. Truth and Its Criterion: Absolute and Partial Truth, Relativity of Truth and progress of truth.		
Unit-II Scientific Socialist World Outlook: Idealism& Materialism, Metaphysics & Dialectics. Dialectical Materialism: Laws of Dialectics, Transformation of quantitative into qualitative changes, Unity and Struggle, Negation of negation, Nature and role of contradictions.		
Unit-III Mode of production and Social Superstructure: Factors constituting and forces governing mode of Production, Social Superstructure and its elements. Dialectical interaction of base & Superstructure. Historical Materialism: Meaning of Historical Materialism, Fundamental law of Social		

Development, Economic laws and their utilization.

Unit-IV

Historical Social Formation: Rise of private property, Classes & the State

Distinguishing Features: Primitive Communism/ Society, Slavery, Feudalism/serfdom, Capitalism/ imperialism and Socialism/ communism.

Reading List

Andre Gunder Frank (1975)*On Capitalist Underdevelopment*, Oxford University Press, Delhi
Cornforth, Maurice (1971)*Dialectical Materialism*, National Book Agency Pvt. Ltd., Calcutta, 3rd edition

Eaton, John (1973): *Political Economy*, International Publishers, New York, revised edition.

Marx, Karl & F. Engels (1977): *Manifesto of the Communist Party*, Progress Publishers, Moscow, 2nd edition

Stalin, Joseph (1978)*Dialectical Materialism*, National Book Agency Pvt. Ltd., Calcutta.

Sweezy, Paul M. (1991): *The Theory of Capitalist Development*, K.P. Bagchi & Co., New Delhi, 1st Indian reprint.

V.I. Lenin (1978): *Imperialism: The Highest Stage of Capitalism*, Progress Publishers, Moscow, 17th ed., Chapters 1 to 10 or Lenin's Collected Works, Vol.22.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/CC9

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3.0	2.75	3.0	2.75	2.0	2.75	2.5	2.75	3	2.0	2.75	2.5
CO2	3.0	2.75	3.0	3.0	2.0	2.5	2.5	2.25	3	2.0	2.75	2.75
CO3	3.0	2.75	3.0	3.0	2.0	2.5	2.5	3	3	2.0	3	2.75
CO4	3.0	2.75	3.0	2.25	2.0	2.25	2.5	3	3	2.0	2.5	2
Average	3.0	2.75	3.0	2.75	2.0	2.5	2.5	2.75	3	2.0	2.75	2.5

Course Title: Agricultural Economics-I Course Code: MA/ECO/3/CC10		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand and analyze critically the agriculture sector linkages with economic development and become able to estimate the risks and uncertainties involved in agriculture.	
CO2	Comprehend, compare, evaluate and then present the various economic thoughts in context of agriculture namely Ancient, Hebrew, Greek, Roman, Medieval, Physiocratic and Classical.	
CO3	Understand and explain latest trends in Indian agriculture, challenges involved in agricultural productivity, price policy and marketing practices.	
CO4	Able to understand, present and measure unemployment and poverty in rural sector, gender inequity in agriculture, unequal income distribution and develop the ability to design adequate policies in this regard.	
Unit-I Agriculture and Economic Development Agricultural Economics – Definition, Nature and Scope; Role of Agriculture in Economic Development; Inter-Sectoral Linkages of Agriculture (Backward & Forward Linkages and Feedback Effects); Role of Agriculture in Haryana and Indian Economy; Farming as a business or way of life; Risks and Uncertainties in Agriculture.		
Unit-II Evolution of Agricultural Economic Thoughts Ancient Economic Thought and Agriculture: Hebrew Economic Thought; Greek Economic Thought – Socrates, Plato, Aristotle; Roman Economic Thought; Medieval Economic Thought and Agriculture – St. Augustine; Physiocrats and Agriculture; Classical Economic Thought and Agriculture.		
Unit-III Issues in Indian Agriculture Indian Agriculture: Features, Problems and Trends; Agricultural Productivity in India –		

Causes of low productivity and Suggestions to increase productivity in India; Agricultural Price Policy: origin, objectives, need, instruments, shortcomings and suggestions for Re-orientation of Agricultural Price Policy in India; Agriculture Marketing in India; Agricultural Development and Five Year Plans.

Unit-IV

Rural Unemployment and Poverty

Rural Unemployment: Nature, Magnitude, Causes and Suggestions to solve unemployment problem; Problems and Measures to improve the conditions of Agricultural Labourers; Rural Poverty; Inequalities in income distribution; Gender inequity in agriculture; Concept of Poverty Line and Measures to eradicate Poverty in India.

Reading List

Bathla, S., Joshi, P.K. & Kumar, A. (2020). *Agricultural Growth and Rural Poverty Reduction in India – Targeting Investments and Input Subsidies*. Springer.

Bhalla, G.S. & Singh, G. (2012). *Economic Liberalisation and Indian Agriculture – A District Level Study*. Sage Publications India Pvt. Ltd., New Delhi.

Nath, G.B. (1998). *Problems of Agricultural Labour: A Case Study of Orissa*. Classical Publishing Company, University of Michigan.

Sridhara, S., Nagachaitnya, B., Chakravarthy, A.K., Nagamani, M.K. & Prabhakara Shetty, T.K. (Eds.). (2009). *Women in Agriculture & Rural Development*. New India Publishing Agency.

Tripathy, S. N. (2000). *Contractual Labour in Agricultural Sector*. Discovery Publishing House.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/CC10

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

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Course Title: Public Economics Course Code: MA/Eco/3/CC11	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand, explain and apply the concept of efficiency along with various solutions of market failure, concept of merit and public goods, provision of public goods and different models.
CO2	Understand and able to analyze the concept of public expenditure and public debt, different theories of public expenditure and burden controversy of public debt.
CO3	Understand the economic implications of various taxes along with their critical analysis thereby attain in-depth knowledge of theories, postulates based on taxation, tax elasticity, tax buoyancy, tax effort and excess burden and thus become able to design an efficient and equitable taxation system.
CO4	To become familiar with the concept of budget and fiscal federalism.

Unit-I

Market failure and Public Good: Market Failure and Rationale for Government Intervention; Imperfections and Market failure; Externalities- Nature, Types and their Internalization; Private Goods, Merit goods and Public Goods, Efficient Provision of Public Goods; Bowen Model, Lindahl Model; Samuelson Model; Lindahl - Wicksell Mechanism; Theory of Club Goods.

Unit-II

Public Expenditure: Meaning and Classification; Wagner's Law of Increasing State Activities; Wiseman-Peacock Hypothesis; Canons and Effects of Public Expenditure
Public debts: Meaning and Sources of Public Debt; Effects of Public Debt; Burden Controversy of Public Debt – Classical Theory, Modern Theory and Buchanan Thesis; Public Debt Management and Redemption of Public Debt'

Unit-III

Public revenue: Tax and Non-Tax Revenue, Direct and Indirect Taxes, Incentive Effects of Taxation on Labour Supply, Savings, Risk Taking and Investment; Tax Incidence – Partial and General equilibrium Analysis; Optimal Commodity Tax- The Ramsey Rule; Excess

Burden of Tax and its Measurement; Concepts of Tax Elasticity, Tax Buoyancy and Tax Effort.

Unit-IV

Budgeting: Meaning and Purpose of Budget; Types or Classification of Budget, Budget Making Process in India; Measures of Budget Deficit and their Significance

Theory of Fiscal Federalism: The Decentralization Theorem; Assignment Issues in Multi-Level Government; Tiebout Model; Centre-State Fiscal Relations in India & Fiscal Sector Reforms in India.

Reading List

Akerlof, G. (1970) The Market for 'Lemons': Quality Uncertainty and the Market Mechanism. *Quarterly Journal of Economics*, **84**(3): 488-500.

Ayres, I. & Levitt, Steven D. (1998) Measuring Positive Externalities from Unobservable Victim Precaution: An Empirical Analysis of Lojack. *Quarterly Journal of Economics*, **113**(1): 43-77.

Boadway, R. (1984) *Public Sector Economics*, Cambridge Winthrop Publishers.

Coase, R. (1960) The Problem of Social Cost, *Journal of Law and Economics*, 3: 1-44.

Jha, Raghendra (1999) *Modern Public Economics*, Rotledge, London.

Harberger, A. (1962) The Incidence of the Corporation Income Tax, *Journal of Political Economy*, 70: 215-240.

Hillman, A. L. (2009) *Public Finance and Public Policy*, Cambridge University Press.

Ihori, Toshihiro (2016) *Principles of Public Finance*, Springer.

Leach, John (2004) *A Course in Public Economics*, Cambridge University Press.

Musgrave, R.A, *Theory of Public Finance*, McGraw Hill

Srivastava D. K. (ed.) (2000), *Fiscal Federalism in India*, Har-Anand Publication Ltd., New Delhi.

CO-PO and CO-PSO Matrix for the Course MA/Eco/3/CC11

Course Outcomes	PO 1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.75	2.25	2.75	2.75	2.75	2.5	2.5	1	3	2.75	2.75	2.75
CO2	2.75	3.0	2.75	2.75	2.75	2.5	2.5	1	2.5	2.5	2.75	2.5
CO3	3.0	3.0	3.0	2.75	2.5	2.75	2.25	1	3	2	3	2.75
CO4	2.5	2.75	2.25	2.75	2.0	2.25	2.75	1	2.5	2.75	2.5	2
Average	2.75	2.75	2.75	2.75	2.5	2.5	2.5	1	2.75	2.5	2.75	2.5

Course Title: Econometrics -I Course Code: MA/ECO/3/DSC25		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Able to estimate and interpret linear regression models..	
CO2	Explain the problems that arise when the assumptions of linear regression model are not valid.	
CO3	Develop solutions to the problems that results from violating the assumptions	
CO4	Understand the tools of econometrics and applying them in practice	
Unit-I		
Introduction to Econometrics Nature and meaning of econometrics; Difference between mathematical economics, statistics; an econometrics; Goals of econometrics; classical linear regression model (two variable) Sources of disturbance terms, assumption and their significance, least square estimators and their properties/ Guassmarkov* theorem.		
Unit-II		
Multiple Regression Analysis General linear regression model: Definition, assumptions, least squares estimation, Gauss markov's theorem testing significance of regression coefficients, concepts of R^2 and adjusted R^2 .		
Unit-III		
Econometric Problems Problems of multicollinearity, autocorrelation and heteroscedasticity; Nature, consequences, test and remedies (proofs not required)		
Unit-IV		
Simple Applications of Least Square Estimation Estimation of consumption function, Cobb-Douglas and CES production-functions, Estimation of semi-log and double log function; simple and compound rates of growth.		

Reading List

- Gujarati, D.N. (1995). Basic Econometrics. McGraw Hill, New Delhi.
- Johnston J. (1991). Econometric Methods. McGraw Hall Book Co. London.
- Kmenta J. (1998). Elements of Econometrics. University of Michigan Press, New York
- Koutsoyiannis, A. (1977). Theory of Econometrics. The Macmillan Press Ltd. London.
- Madhani, G.M.K. (2004). Introduction to Econometrics: Principles and Applications. Oxford•& IBH Publishing Co. Pvt. Ltd. New Delhi.
- Amemiya, T. (1985). Advanced Econometrics. Harvard University Press, Cambridge, Mass.
- Baltagi, B.H. (1988). Econometrics. Springer, New York.
- Goldberger, A.S. (1998). Introductory Econometrics. Oxford University Press, New York.
- Gujarati, D.N. (1995). Basic Econometrics. McGraw Hill, New Delhi.
- Johnston J. (1991). Econometric Methods. MC Graw Hall Book Co. London.
- Kmenta J. (1998). Elements of Econometrics. University of Michigan Press, New York.
- Intrilligator, M.D. (1978).Econometric Methods, Techniques and Applications. Prentice Hall Englewood Cliffs, New Jersey.
- Koutsoyiannis, A. (1977). *Theory of Econometrics*. The Macmillan Press Ltd. London.
- Maddala G.S. (Ed.) (1993). *Econometric Methods and Application*. Aldershot U.K.
- Theil H. (1981).Introduction to Econometrics. Prentice Hall of India, New Delhi.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/DSC25

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	3	3	2	2	2.5	-	3	2	2	2
CO2	3	3	3	2	3	2	2.5	-	3	2	2	2
CO3	3	2	3	2	2	2	2.5	-	3	3	2.5	2
CO4	3	3	3	3	3	2	2.5	-	3	3	2.5	2
Average	3	2.75	3	2.5	2.5	2	2.5	-	3	2.5	2.25	2

Course Title: Welfare Economics-I Course Code: MA/ECO/3/DSC26	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand the different ways to measure welfare changes for individuals and know how to aggregate them.
CO2	Understand how to construct models and use general equilibrium analysis. Comprehend and identify the main economic factors and indicators affecting the level of individual welfare and welfare state.
CO3	Be able to properly interpret compensated welfare changes and know how they relate to actual welfare changes typically isolated in demand-supply diagrams.
CO4	Understand the welfare economic foundation of public policies.

Unit-I

Introduction to Welfare Economics

Scope and Purpose of Welfare Economics; Positive or normative science; Assumption of Uniform Income; Utility Function of Individuals; Marginal Productivity Theory of Income Distribution; Elasticity of Factor Substitution; Technological Progress and Income Distribution; Value judgements and welfare economics; Benthamite Approach to Aggregate Welfare.

Unit-II

Marshallian Welfare Economics

Consumer's Surplus - Measurement, Difficulties involved and Criticism.

Hicks's Surpluses

Concept of Consumer's Surplus; Principle of Compensating Variation; Consumer's Surplus and Tax-Bounty Analysis.

Unit-III

Optimum Resource Allocation and Welfare Maximization

Pareto optimality – Optimum exchange conditions, The production optimum, The consumption optimum, Concept of contract curve; Pareto optimality and perfect competition; First and Second Fundamental Theorems of Welfare Economics.

Unit-IV

Fairness/Equity and Welfare Economics

Economic Justice: Utilitarian Approach (Harsanyi); Libertarian View (Nozick); Rawlsian Theory of Justice; Amartya Sen's Approach to Economic Justice; Bergson's social welfare function; Compensation criteria –Contributions of Barone, Kaldor and Hicks.

Reading List

Boadway, R.W. & Neil, B. (1991). *Welfare Economics*. Wiley.

Feldman, A. M. & Serrano, R. (2006). *Welfare Economics and Social Choice Theory*. Springer.

Johansson, Per-Olov (1991). *An Introduction to Modern Welfare Economics*. Cambridge University Press.

Little, I.M.D. (2002). *A critique of Welfare Economics*. Oxford University Press.

Sen, Amartya (1997). *Choice, Welfare and Measurement*. Harvard University Press.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/DSC26

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Industrial Economics-I Course Code: MA/ECO/3/DSC27		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Learn the scope and breadth of industrial economics and able to use the tools of economic analysis and the classical theory of markets in the analysis of organizations.	
CO2	Comprehend, compare and present the theories of industrialization and location along with their technical applications.	
CO3	Understand market structure-conduct-performance and appreciate the concept of sellers' concentration along with its measurement using adequate techniques.	
CO4	Understand and then able to present the concepts of industrial productivity and efficiency along with measurement using analytical tools.	
Unit-I Industrial Organization and Theories of the Firm Meaning and scope of industrial economics; Industrial organization and ownership structure – public, private, joint and co-operative sectors; Objectives of the firm; Theories of the firm: Neoclassical theory, Managerial Theories, Coasian firm and transaction cost approach, Strategic and knowledge based theories.		
Unit-II Theories of Industrialization and Industrial Location Theories of Industrialization – Hoffman, Chenery and Gershenkron; Theories of industrial location – Weber, Sargent and August Losch theories, Hotelling's location model, Salop's location model; Factors affecting location; Balanced regional development of industries.		
Unit-III The Structure-Conduct-Performance Paradigm The structural conduct performance approach; Relationships between structure, conduct & performance; Neoclassical developments of the SCP approach; Sellers concentration and its measurement: the concentration ratio, the Lorenz curve; Product differentiations – its sources and its implications, Entry conditions; Economies of Scale; Market structure and profitability;		

Market structure and innovation – Process and measurement.

Unit-IV

Industrial Productivity and Efficiency

Industrial Productivity – measurement and determinants; Industrial efficiency– concept and measurement; Efficiency conditions in the theory of production: constrained output maximisation, constrained cost minimisation, profit and revenue maximization; Efficiency and decision-making process.

Reading List

Bains, J. S. (1996). *Industrial Organization*. Cheltenham, U. K.

Barthwal, R. R. (1985). *Industrial Economics*. Wiley Eastern Ltd., New Delhi.

Kamien, M. T. & Schwartz, N. L. (1982). *Market Structure and Innovation*. Cambridge University Press, Cambridge.

Lipczynski, J., Wilson, J.O.S. & Goddard, J.A. (2016). *Industrial Organisation: Competition, Strategy and Policy*. Pearson.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/DSC27

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Behavioural Economics-I Course Code: MA/ECO/3/DSC28		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, communicate and solve applications of the behavioural decision theory and the theory of rational choice under certainty and uncertainty.	
CO2	Critically evaluate the preference models and understand the human behavior under ambiguous situations.	
CO3	Demonstrate an understanding of time factor in behavioural models and explain/solve applications of biased preferences.	
CO4	Understand and formulate strategies for human choice in behavioral economics using game theory.	
Unit-I		
Behavioral Decision Theory: Human Choice under uncertainty; Behavioural models of Decision Making- Rank Dependent Utility Theory, Prospect Theory; Applications of Behavioural Decision theory.		
Unit-II		
Models of Ambiguity and Preferences: Human Behaviour under Ambiguity; Human Sociality; Preferences models; Incentives and Preferences.		
Unit-III		
Behavioural Time Discounting: Temporal Human Choice; Behavioural Models of Time Discounting; Applications of Present Biased Preferences.		
Unit-IV		
Strategic Human Choice: Mixed Strategy Nash Equilibria; Coordination Games; Bargaining Games; Asymmetric Information and Signaling; Strategic complements and Strategic Substitutes.		
Reading List Angner, Erik (2016). <i>A Course in Behavioral Economics</i> . Palgrave Macmillan. Dhami, Sanjit (2016). <i>The Foundations of Behavioral Economic Analysis</i> . Oxford University		

Press.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/DSC28

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

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Course Title: Economics of Insurance-I Course Code: MA/Eco/3/DSC-30	Theory Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20	Practical Credits:2 Time: 3 Hrs. Marks: 50 End Term: 30 Practical Record: 10 Viva Voce: 10
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Note for the paper Setter

The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.

Course Outcomes

CO1	Identify and quantify client needs and determine appropriate Insurance Product, Sell life insurance policies to individuals.
CO2	Sell General Insurance products to individuals and/or nonindividuals, Determine policy premium, charges, collect all requisite documents and receive the applicable payment.
CO3	Respond to any queries/ requirements. Assess client investment and suggest changes if applicable.
CO4	Provide service while ensuring that the business relationship is sustained without a lapse until the policy results into a claim or when a policy matures or is surrendered by client. Assist the client in claim or settlement process

Unit-I (Theory)

Basics of Insurance: Insurance's works and advantages, Concept of primary risk, secondary risk and risk management, principle of Risk pooling, concept and calculation of premium, Differentiate between Life and General Insurance, Money Laundering and its use in insurance and Anti-Money Laundering (AML).

Basic Financial Arithmetic: Calculate percentages, Simple Interest, Compound Interest, Rates of Return, Present Value of a sum receivable in future, Future Value of amount available today given a current rate of interest, Future value using monthly compounding; quarterly compounding; half yearly compounding and annual compounding. Calculate Present Value of an Annuity and Future Value of an Annuity.

Unit-II (Theory)

Basics of Life Insurance: Concept of Life Insurance, Human Life Value and Mortality, Level premium, Significance and important clauses of Life Insurance Contract, Financial Planning, Life insurance products, Purpose, advantages and disadvantages of traditional life insurance products like term plan & endowment plan and non-traditional life insurance products like ULIP, riders on insurance products, advantages of Married

Women's Property (MWP) Act, features and benefits of Keyman insurance, concept of group insurance and its benefits, Healthcare products, riders, package policy and their benefits, Micro insurance and health insurance for poorer sections and schemes like Rashtriya Swasthya Bima Yojana and Pradhan Mantri Suraksha Bima Yojana. Overseas travel insurance, Pricing and valuation in life insurance products, tax benefits involved in life insurance, KYC, documentation and application procedure for life insurance products, underwriting, types of claims and claims procedure, IRDA's Regulatory aspects and code of conduct, Grievance redressal mechanism.

Unit-III (Practical)

Source insurance clients: Learn how to identify client segment for insurance products, Decipher the process of selling insurance to new and existing customers, Learn the art of approaching potential clients through various methods, Acquire the skills required to narrow down the need of the customer, Learn how to present the product to the customer as a solution to their need and close the sale, Learn how to assess client's financial status (income, dependents etc.) and determine extent of present coverage and investment, Understand how to chalk out an invest plan for the customer towards his invest needs.

Unit-IV (Practical)

Sales Skills: Interpret the sales process consisting of Planning, Execution, Monitoring and Review, understand how to create a database, Learn the process of cold calling, Practice customer calls, learn how to generate leads, Discover the process and advantages of prioritizing Leads, visualise how to obtain appointments, Understand the process of meeting the customer, Discover the process of narrowing down upon the need of the customer. Learn how to offering the right solution and close the call, look at the grooming standards & Etiquettes to be followed.

Reading List

- Abraham, K.S. (1995). *Insurance Law and Regulation: Cases and Materials*. Westbury NY: The Foundation Press.
- Beard, R.E., Pentikainen, T., & Pesonen, E. (1984). *Risk Theory: The Stochastic Basis of Insurance*. London: Chapman and Hall
- Dionne, G. & Harrington, S.E. (Ed.). (1997). *Foundations of Insurance Economics*. Kluwer academic Publishers, Boston.
- Mishra, M.N. & Mishra, S.B. (2016). *Insurance: Principles and Practice*. S. Chand Publishing, New Delhi.
- Zweifel, Peter & Eisen, Roland. (2012). *Insurance Economics*. Springer.

Note: Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed. It will have a weightage of 2 Credit.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/DSC30

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2.5	3	2	2	1	2.5	-	2	2.5	3	2.5
CO2	3	3	2	2	3	1	2.5	-	2.5	3	2.5	2
CO3	3	2	2.5	3	2	1	2.5	-	3	2	2.5	2.5
CO4	3	3	3	2.5	3	1	2.5	-	3	2.5	3	2.5
Average	3	2.62	2.62	2.37	2.5	1	2.5	-	2.62	2.5	2.75	2.37

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Kamlesh Kumar

Manoj Prasad

Course Title: Business Correspondent and Business Facilitator-II Course Code: MA/ECO/3/SEC3		Total Credits: 2 Time: 3 Hrs. Marks: 50 External : 30 Internal : 20
Note for the paper Setter The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.		
Course Outcomes		
CO1	Learn about basic financial tools and techniques and Technical knowledge about banking products and processes.	
CO2	Understanding the basic banking products and processes with government schemes.	
CO3	Understanding technical knowledge about banking products and processes, Assist with application process and Facilitate and/or execute cash or cashless transaction.	
CO4	Learn about on-going services, how to communicate effectively and maintain customer- centric service orientation, how to maintain integrity and ethics.	
Unit-I		
<i>Basic financial arithmetic:</i> Calculate percentage, Calculate simple interest and compound interest, Calculate rate of return of an investment. Explain the concepts of economy, finance and financial statements.		
<i>Technical knowledge about banking products and processes:</i> Differentiation between various banking products (loans, deposits, etc.); Distinguish between various types of deposits; Description of various principles of lending for different loans (housing, vehicle, rural and personal loans)		
Role, function and structure applicable to business correspondents; Banking regulations that are applicable to business correspondents; Process for updation of records in the system;		
<i>Government Schemes:</i> Jan Dhan Yojana, Atal Pension Yojana, Sukanya Samruddhi Yojana, Ayushman Bima Yojana, Pradhan Mantri MUDRA Yojana, Pradhan Mantri Suraksha Bima Yojana and Pradhan Mantri Jeevan Jyoti Bima Yojana		
<i>Source new customers:</i> Describe the ways to segment prospective customers according to demographics for the area assigned, Explain ways to approach prospective customers		
Unit-II		
<i>Source new customers:</i> Explain ways to ascertain customer needs and suggest appropriate products based on needs. Explain features, terms and conditions of product to customer.		

Explain the application process with timelines

Assist with application process: Describe the process of account opening, application form and documentation. Explain the list of documents required for KYC and their relevance: Proof of income documents; Proof of age document; Identity proof documents. Demonstrate filling an Account Opening Form. Summarize the areas of critical importance while filling of application form and documentation.

Facilitate and/or execute cash or cashless transactions: Describe the process for cash withdrawals and cash deposits with documents required for the transaction. Explain the importance/relevance of recording transactions conducted on behalf of customers. Explain the SOP for security procedures for handling cash / cheque transactions. Demonstrate ways of handling queries related to cash / non-cash transactions with customer.

Provide on-going services: Explain the importance of follow up visits for post-sales services and recovery of loan accounts. Demonstrate the ways to handle queries and grievances related to regular banking transactions and loans. Describe the process for updating address and nominee details in bank account, etc.

Communicate effectively and maintain customer-centric service orientation: Discuss the importance of gender sensitivity, culture and social factors w.r.t. communication. Explain the ways to handle irate customer and the process of escalating customer concerns. Discuss the importance of maintaining clarity, honesty and transparency in dealing with customers and colleagues. Demonstrate different types of voice modulation. Discuss the importance of body language and its impact on communication.

Reading List

Indian Institute of Banking and Finance (2018) *Inclusive Growth through Business Correspondent*, Taxmann Publication Pvt. Ltd., New Delhi.
 Blackburn, A. C. (1965) *Pocket Book of Business Correspondent*, EVANS Brothers Ltd.
 AIJECT Content Group (2017) *Business Correspondent and Business Facilitator*

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/SEC3

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
CO2	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50

CO3	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
CO4	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
Average	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50

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M.A. Economics
4th Semester

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Course Title: International Trade-II Course Code: MA/Eco/4/CC12	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand, explain and present various approaches of International Monetary system.
CO2	Understand Economic Integration in various countries and their recent experiences.
CO3	Learn and explain macro adjustment policies in an open economy framework.
CO4	Understand and analyze the working of International Financial Management and Institutions

Unit-I

International Monetary System: Rise and fall of gold standard, Bretton-Wood system and after collapse monetary system, Need, Adequacy and determinants of international reserves; Conditionality clause of IMF; Emerging International Monetary System with special reference to Post Maastricht developments and developing countries; Reforms of the International Monetary System; Optimum currency Areas-Theory and impact in the developed and developing countries.

Unit-II

Economic Integration-Theory of Customs Union; Concept forms, problems and benefits of economic integration, Partial and general equilibrium analysis and dynamic effects of Custom union, Integration experiences-European Union, BRICS, NAFTA, ASEAN, Multilateral trade negotiations-the GATT rounds, UNCTAD and evolution of world trading arrangements, World Trade Organization and fair trade-Development Round, Trade Facilitation, Trade War.

Unit-III

Open Economy Adjustment Policies: Internal and external balance; Swan Diagram, Assignment Problem; Expenditure Switching and changing policies; Mundell-Fleming Model-Combining monetary and fiscal policies; Implications of Impossible Trinity in the

Indian Context.

Unit-IV

International Financial Management and Institutions: Meaning, classification, role and factors influencing of International Capital Movements, Foreign Aid, FDI and Portfolio Investment; Role, effects and regulations of MNCs in India, Evolutionary and Operational developments in International Institutions: IMF, IDA, ADB. Sub-Prime lending Global Economic Crisis.

Reading List

- Alexander, S.S. (1959). Effects of Devaluation on Trade Balance. *American Economic Review*, 49, 21-42.
- Kreinin, M.E. & Officer, L.H. (1981). The Monetary Approach to the Balance of Payment: A Survey (Princeton Studies in International Finance No. 43). Princeton University.
- McCallum, Bennett T. (1996). *International Monetary Economics*. Oxford University Press, New York.
- Stern, R.M. (2017). *The Balance of Payments: Theory and Economic Policy*. Routledge.
- Thirlwal, A.P (1999). *Balance of Payments Theory*. Oxford University Press, New York.
- Batra, R. N. (1973). *Studies in the Pure Theory of International Trade*. St. Martin's Press, August.
- Bhagwati, J. N. (1987). *International trade: Selected readings*. MIT Press, Cambridge.
- Ethier, W. J. (1995). *Modern International economics*. W.W. Norton & Co.
- Heffernan, S. & Sinclair, P. (1991). *Modern International economics*. Wiley-Blackwell.
- Jhonson, H. (1958). *International trade & economic growth*. Harvard University Press, Cambridge.
- Lindert, P. H. & Pugel, T. A. (2008). *International economics*. McGraw-Hill.
- Helpman, E. & Krugman, Paul R. (1989). *Trade policy and market structure*. The MIT Press.
- Krugman, Paul R. (1994). *Rethinking international trade*. MIT Press.
- Vernon, Raymond (1966). International Investment and International Trade in the Product Cycle. *Quarterly Journal of Economics*, 80(2), 190-207.

CO-PO and CO-PSO Matrix for the Course MA/Eco/4/CC12

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	3	3	2.5	3	2	-	3	3	2	2
CO2	3	2	3	3	3	2	2	-	3	3	2	2
CO3	3	2.5	2	2.5	2.5	3	3	-	3	3	3	2
CO4	3	2.5	2	2.5	3	3	3	-	3	3	3	2
Average	3	2.25	2.5	2.75	2.75	2.75	2.5	-	3	3	2.5	2

Course Title: Political Economy of Development-II Course Code: MA/Eco/4/CC13		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, explain and apply the different concepts of Marxian Political Economy such as commodity production, use value, exchange value, law of value, surplus value, organic composition of capital and rate of profit along with the ability to think critically and analyze the prevailing conditions of society.	
CO2	Understand and analyze the process of Capitalism in Agriculture and Nature and process of Development along with the ability to think critically and analyze the prevailing conditions of society.	
CO3	Understand and analyze the nature of capitalistic crisis, development of monopoly capitalist and role of banks along with the ability to think critically and analyze the prevailing conditions of society.	
CO4	To become familiar with the concept of Imperialism, Law of uneven Development under Imperialism along with the ability to think critically and analyze the prevailing conditions of society.	
Unit-I Marxian Political Economy: Commodity Production: Use Value, Exchange Value, Labour and Law of Value, Commodity Fetishism. Basic Concepts: Capitalistic Class, Working Class or Proletariat & Merchant Capital. Surplus Value: Origin of Surplus Value, Components and rate of Surplus Value, Organic Composition of Capital, Rate of Profit.		
Unit-II Analysis of Capitalistic Agriculture: Capitalism in Agriculture and its essence, Effect of Capitalism on Agriculture. Its limitations and contradictions. Nature and process of Development: Capital Accumulation, Simple and Expanded reproduction, Process of Capitalist Reproduction.		

Unit-III

Capitalistic Crisis: Nature of Capitalistic Crisis: Simple Commodity Production and Crisis, Say's law, types of Crisis, Falling tendency of rate of Profit.

Development of Monopoly Capitalist: Concentration and Centralization of Capital, Corporations, Cartels, trust & mergers, the role of banks.

Unit-IV

Imperialism: meaning of Imperialism, Law of uneven Development under Imperialism, Socialization of productive forces and sharpening of imperialist contradictions.

Imperialism as the last stage of Capitalism, Limits of Imperialism.

Reading List

Eaton, J. (1973): Political Economy, International Publishers, New York, Revised Edition.

Junankar, P.N. (1983) Marx's Economics, Heritage Publishers, New Delhi.

Marx, K. & F. Engels (1977): Manifesto of the Communist Party, Progress Publishers, Moscow, 2nd edition

Maurice Cornforth (1971): Dialectical Materialism, National Book Agency, Pvt.Ltd., Calcutta, 3rd edition

Nikitin, P.(1966): Fundamentals of Political Economy, Progress Publisher, Moscow. 2nd edition.

Stalin, J. (1978): Dialectical Materialism, National Book Agency, Pvt. Ltd., Calcutta.

Sweezy, P. M. (1991): The Theory of Capitalist Development, K.P.Bagchi & Co., New Delhi, 1st Indian reprint.

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/CC13

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3.0	2.75	3.0	2.75	3.0	2.75	2.5	2.75	3.0	2.75	2.75	2.75
CO2	3.0	2.75	3.0	2.75	3.0	2.75	2.5	2.75	3.0	2.75	2.75	2.75
CO3	3.0	2.75	3.0	2.75	3.0	2.75	2.5	2.75	3.0	2.75	2.75	2.75
CO4	3.0	2.75	3.0	2.75	3.0	2.75	2.5	2.75	3.0	2.75	2.75	2.75
Average	3.0	2.75	3.0	2.75	3.0	2.75	2.5	2.75	3.0	2.75	2.75	2.75

Course Title: Agricultural Economics -II Course Code: MA/ECO/4/CC14		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, analyze and present the concepts of agricultural production functions and factor - product relationships using the tools of micro economics.	
CO2	Understand, critically analyze and present the nature, importance and sources of agricultural credit along with the role of financial institutions dealing with agricultural credit in India.	
CO3	Comprehend, compare, critically analyze and able to present the various theories and models of agricultural development.	
CO4	Attain in-depth understanding of the burning issues in Indian agriculture including liberalization of agricultural trade; implications of WTO and sustainable development; and food security in context of international trade.	
Unit-I Agricultural Production and Its Diversification: Agricultural Production- Stock and Flow Resources, Production Relationships, Resource use and efficiency; Production Functions analyses in agriculture; Factor Relationships – Iso-quant and Iso-cost Line, Optimum Combination; Product Relationships – Joint Products, Competitive Products, Supplementary Products and Antagonistic Products; Diversification of Agricultural Production – Horticulture and Floriculture, Mushroom Cultivation and Processing of Agricultural Products.		
Unit-II Rural Finance: Role of capital and rural credit; Organized and unorganized capital market; Rural savings and capital formation; Characteristics and Sources of rural credit – Institutional and non-institutional; Reorganization of rural credit – cooperatives, commercial banks, regional rural banks; Role of the NABARD.		
Unit-III Theories of Agricultural Development: Schultz’s Transformation of Traditional Agriculture; Mellor’s Model of Agricultural Development; Boserup Model of Agriculture		

Development; Ranis – Fie Model of Agriculture Development; Hayami - Ruttan Induced Innovation Hypothesis.

Unit-IV

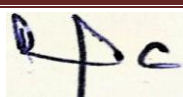
Agriculture and External Sector: Issues in liberalization of domestic and international trade in agriculture; Impact of the World Trade Organization on Indian Agriculture; Agriculture and Environment– Sustainable Development; Food Security and International Trade – Concept, Threat, Indicators and Mechanism to Food Security.

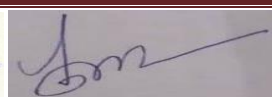
Reading List

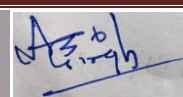
- Ahuja, S. & Jaggi, P. (2017). Mashroom: Scope and future in India. *Kurukshetra – A Journal on Rural Development*, 65(6), 40-44.
- Gautam, H.R. & Kaushal, R. (2017). Horticulture: The growth engine for agriculture sector. *Kurukshetra – A Journal on Rural Development*, 65(6), 5-9.
- Rawat, S. (2017). Floriculture: Potential source of farmer's income. *Kurukshetra – A Journal on Rural Development*, 65(6), 45-47.
- Sharma, A.K., Wahab, S. & Srivastava, R. (2010). *Agriculture Diversification: Problems and Perspectives*. I.K. International Publishing House Pvt. Ltd., New Delhi.
- Thakur, A.K. & Padmadeo, K.B. (2008). *Growth and Diversification of Agriculture*. Deep & Deep Publications Pvt. Ltd., New Delhi

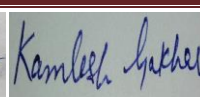
CO-PO and CO-PSO Matrix for the Course MA/ECO/4/CC14

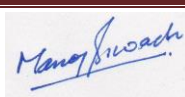
Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3











Cardinal Principles of Academic Integrity and Publications Ethics Course Code: MA/ECO/4/CC15		Total Credits: 2 Time: 2 Hrs. Marks: 50 External : 30 Internal : 20
Note for the paper Setter The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.		
Course Outcomes		
CO1	Academic Integrity, Plagiarism (prevention and detection) and UGC regulations	
CO2	Research and Publications ethics and best practices	
Unit-I		
Academic Integrity: Introduction, Academic Integrity Values-Honesty and Trust, Fairness and Respect, Responsibility and Courage, Violations of Academic Integrity-types and consequences, Plagiarism -definition, Plagiarism arising out of misrepresentation-contract cheating, collusion, copying and pasting, recycling, Avoiding Plagiarism through referencing and writing skills, UGC Policy for Academic Integrity and prevention, Some Plagiarism detection tools		
Unit-II		
Research and Publication ethics: Scientific misconducts- Falsifications, Fabrication and Plagiarism (FPP), Publication ethics-definition, introduction and importance, Best practices/standard setting initiatives and guidelines-COPE, WAME etc., Violation of publication ethics, authorship and contributor-ship, Identification of publications misconduct, complains and appeals, Conflicts of Interest, Predatory publisher and journals,		
References Books/Papers: MacIntyre A (1967) A short History of Ethics, London Chaddah P (2018) <i>Ethics in Competitive Research: Do not get Scooped; Do not Get Plagiarized</i> . ISBN: 978-9387480865 National Academy of Sciences, National Academy of Engineering and Institute of Medicine (2009) <i>On being a Scientist: A guide to Responsible Conduct in Research</i> , Third Edition. National Academics press. Resnik D. B. (2011) <i>What is Ethics in Research & Why is it Important</i> , National Institute of Environmental Health Sciences: 1-10.		

Beall, J. (2012). Predatory publishers are corrupting open access, *Nature*, 489 (7415), 179.

Indian National Science Academy (INSA), *Ethics in Science Education, Research and Governance* (2019). ISBN: 978-81-939482-1-7.

UGC, (2018) *Regulations for Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutes*.

Ulrike Kestler, *Academic Integrity*, Kwantlen Polytechnic University.

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/CC15

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	2.0	2.0	1.5	1.5	2.0	2.0	2.75	1.5	1.5	1.5	4.5
CO2	2.5	2.0	2.0	1.5	1.5	2.0	2.0	2.75	1.5	1.5	1.5	4.5
Average	2.5	2.0	2.0	1.5	1.5	2.0	2.0	2.75	1.5	1.5	1.5	4.5

Course Title: Econometrics II Course Code: MA/ECO/4/DSC31		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand and explain the nature of dynamic econometric model..	
CO2	Comprehend and apply qualitative response regression models	
CO3	Construct, test, and analyze econometric models, using variables and relationships commonly found in economic theory.	
CO4	Learn and explain various concepts in Time Series econometrics and economic forecasting.	
Unit-I Dynamic Econometric Models-Distributed Lag Models and Causality Tests: Autoregressive and distributed lag models - Koyck Model, Adaptive expectation and Partial Adjustment approaches for rationalization of Koyck models, Estimation of Autoregressive models, Granger causality and ergogeneity.		
Unit-II Dummy variable Regression Models: The Nature of Dummy variable, caution in the use of Dummy variables, ANOVA MODELS with two qualitative variables, ANCOVA MODELS, The use of Dummy variables in seasonal analysis and Interaction Effects.		
Unit-III Simultaneous equations model: The simultaneous equation bias and inconsistency of OLS estimators; The identification problem; Rules of identification - Order and rank conditions (statement only), Methods of estimating simultaneous equation system: Indirect Least squares (ILS), 2 SLS (Two stage least squares).		
Unit-IV Time series Econometrics: Key concepts - stochastic process; stationarity and non stationarity process, purely random process, Random walk models, co-integration, Integrated variables, Deterministic and stochastic trends and unit root. Techniques of forecasting - ARMA, ARIMA Models, Box jenkins methodology.		

Reading List

- Gujarati, D.N. (1995). Basic Econometrics. McGraw Hill, New Delhi.
- Johnston J. (1991). Econometric Methods. McGraw Hall Book Co. London.
- Kmenta J. (1998). Elements of Econometrics. University of Michigan Press, New York
- Koutsoyiannis, A. (1977). Theory of Econometrics. The Macmillan Press Ltd. London.
- Madnani, G.M.K. (2004). Introduction to Econometrics: Principles and Applications. Oxford•& IBH Publishing Co. Pvt. Ltd. New Delhi.
- Amemiya, T. (1985). Advanced Econometrics. Harvard University Press, Cambridge, Mass.
- Baltagi, B.H. (1988). Econometrics. Springer, New York.
- Goldberger, A.S. (1998). Introductory Econometrics. Oxford University Press, New York.
- Johnston J. (1991). Econometric Methods. MC Graw Hall Book Co. London.
- Intrilligator, M.D. (1978).Econometric Methods, Techniques and Applications. Prentice Hall Englewood Cliffs, New Jersey.
- Koutsoyiannis, A. (1977). *Theory of Econometrics*. The Macmillan Press Ltd. London.
- Maddala G.S. (Ed.) (1993). *Econometric Methods and Application*. Aldershot U.K.
- Theil H. (1981).Introduction to Econometrics. Prentice Hall of India, New Delhi.

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/DSC31

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	3	3	2	2	2.5	-	3	2	2	2
CO2	3	3	3	2	3	2	2.5	-	3	2	2	2
CO3	3	2	3	2	2	2	2.5	-	3	3	2.5	2
CO4	3	3	3	3	3	2	2.5	-	3	3	2.5	2
Average	3	2.75	3	2.5	2.5	2	2.5	-	3	2.5	2.25	2

Course Title: Welfare Economics-II Course Code: MA/ECO/4/DSC32		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Be exposed to the applied welfare and public economics literatures and be able to relate the two literatures using conventional welfare economics tools.	
CO2	Demonstrate the knowledge and understanding about the significance of intervention of government and other institution in order to regulate externalities, public goods and to design the tax.	
CO3	Interpret the fundamental welfare theorems. To enable students to assess policy issues with reference to criteria that is drawn from welfare economics.	
CO4	Understanding the motivations of public intervention in the economy and how the collectivity can take into account objectives of equity and efficiency to make public choices and supply goods and services.	
Unit-I Social Welfare: The Scitovsky double criterion; Samuelson's utility possibility curve; Choice Functions and Revealed Preference; Social Choice; Social Welfare Function; Arrow's Impossibility Theorem.		
Unit-II Efficiency and State Intervention: Pigovian tax and subsidy; Divergence between private and social costs; Externalities of production and consumption; Problem of public goods; The Role of The State; Second-best optima.		
Unit-III Approaches to Welfare Analysis: Marginal cost pricing; Cost-benefit analysis; Welfare Analysis of Risky Projects; The Value of Information and Irreversible Consequences; Welfare Theory and International Trade.		
Unit-IV Public Choice: Collective decision making and voting rules; Voting and median voter		

model; Rent seeking, Lobbying and corruption; Fiscal policies and taxation; Local public goods; Market failure vs. Government failure.

Reading List

Boadway, R.W. & Neil, B. (1991). *Welfare Economics*. Wiley.

Feldman, A. M. & Serrano, R. (2006). *Welfare Economics and Social Choice Theory*. Springer.

Johansson, Per-Olov (1991). *An Introduction to Modern Welfare Economics*. Cambridge University Press.

Little, I.M.D. (2002). *A critique of Welfare Economics*. Oxford University Press.

Sen, Amartya (1997). *Choice, Welfare and Measurement*. Harvard University Press.

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/DSC32

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

APC

San

Asish

Kamlesh Sarker

Manoj Prasad

Course Title: Industrial Economics-II Course Code: MA/ECO/4/DSC33		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, compare and analyse various product pricing methods along with their merits and limitations.	
CO2	Comprehend, compare and able to present various project evaluation criteria and understand both theoretical as well as empirical evidence about mergers and acquisitions.	
CO3	Getting familiar with various aspects of Industrial policy in India along with key issues, challenges and its appropriateness.	
CO4	Understand and present in detail the technical aspects of firms' advertising decisions making based on different models.	
Unit-I Methods of Product Pricing Cost-oriented methods: Mark-up, cost-plus, Break-even, target return pricing; Market-oriented Methods: Going-rate pricing, Premium pricing, Discount pricing, Sealed-bid Pricing; Peak-Load Pricing; Multi-Product Pricing; Predatory pricing; Pricing of a new product: Skimming and Penetration pricings; Non-Linear Pricing Practices: Price Discrimination.		
Unit-II Project Evaluation and Theories of Mergers Methods of project evaluation; Risk & uncertainties in project appraisal; NPV v/s IRR; Theories and empirical evidence on Mergers and Acquisitions (M & A's) and diversification; Mergers and the Valuation; Discrepancies Hypothesis; Mueller's Model of Conglomerate Mergers; Corporate Governance Mechanisms.		
Unit-III Industrial Policy Industrial Policy in India – evolution and paradigm shift; Recent trends in Indian industrial growth; National manufacturing Policy; MNCs, transfer of technology and issues related with TRIMS; Competition policy; Industrial sickness; Exit policy; Role of BIFR.		

Unit-IV

Advertising Decisions of Firm

The Advertising Decision: Marginalistic, Profit-Maximising Models of The Advertising Decision; Buchanan's Advertising-Price Model; Schmalensee's Model of Oligopoly Advertising; A Managerialist Model of Advertising: The Baumol-Hawkins, Bushnell-Kafoglis Static Model; A Model of Advertising Barriers: Williamson's Model of Advertising as an Entry; Prevention Strategy; Effects of Advertising.

Reading List

Bains, J. S. (1996). *Industrial Organization*. Cheltenham, U. K.
Barthwal, R. R. (1985). *Industrial Economics*. Wiley Eastern Ltd., New Delhi.
Hay, D. & Morris, D. J. (1979). *Industrial Economics: Theory and Evidence*. Oxford University Press, New Delhi.
Koutsoyiannis, A. (1982). *Non-Price Decisions: The Firm in a Modern Context*. The Macmillan Press Ltd., London.
Smith, D. M. (1971). *Industrial Location: An Economic and Geographic Analysis*. John Wiley, New York.
Symeonidis, George (1999). *Industrial Economics*. University of London Study Guide (SG).

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/DSC33

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Behavioural Economics-II Course Code: MA/ECO/4/DSC34		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, explain and apply the behavioural and psychological game theory, cognitive models and theory of auctions in real life situations.	
CO2	Theoretically understand and explain learning models, emotions and happiness and their interrelationship in behavioural economics.	
CO3	Demonstrate an understanding of heuristics, bounded rationality and mental accounting along with the ability to apply them to real life situations.	
CO4	Understand and explain the role of behavioural economic theories in financial markets as well as in welfare economics.	
Unit-I		
Models of Behavioural Game Theory Quantal Response Equilibrium (QRE); Cognitive Hierarchy Models; Psychological game Theory; Behavioural economics of Auctions.		
Unit-II		
Learning and Emotions Reinforcement learning; Belief based models of learning; Rule based learning; Emotions and Human Behaviour; Projection bias; Temptation preference; Happiness economics; Interaction between emotions and cognition.		
Unit-III		
Judgement heuristics Law of small numbers; Herbert Simon approach to bounded rationality; Mental Accounting.		
Unit-IV		
Bounded rationality in financial markets; Behavioural welfare economics.		
Reading List Angner, Erik (2012). <i>A Course in Behavioral Economics</i> . Palgrave Macmillan. Dhami, Sanjit (2016). <i>The Foundations of Behavioral Economic Analysis</i> . Oxford		

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/DSC34

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Economics of Insurance-II Course Code: MA/ECO/4/DSC36	Total Credits: 4	
	Theory Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20	Practical Credits:2 Time: 3 Hrs. Marks: 50 End Term: 30 Practical Record: 10 Viva Voce: 10

Note for the paper Setter

The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.

Course Outcomes

CO1	Identify and quantify client needs and determine appropriate Insurance Product, Sell life insurance policies to individuals.
CO2	Sell General Insurance products to individuals and/or nonindividuals, Determine policy premium, charges, collect all requisite documents and receive the applicable payment.
CO3	Respond to any queries/ requirements. Assess client investment and suggest changes if applicable.
CO4	Provide service while ensuring that the business relationship is sustained without a lapse until the policy results into a claim or when a policy matures or is surrendered by client. Assist the client in claim or settlement process

Unit-I (Theory)

Basics of General Insurance: Concept of General insurance, Health Insurance products, documents related Health Insurance, Health Insurance Underwriting, General insurance products like, vehicle insurance, home insurance, travel insurance and marine insurance, Insured Declared Value, General Insurance Contract significance and important clauses, pricing and valuation in general insurance products, tax benefits involved, KYC, documentation and application procedure for general insurance products, types of claims and claims procedure, IRDA, Regulatory aspects, code of conduct and Grievance redressal mechanism.

Unit-II

Maintain Integrity and Ethics: Refrain from indulging in unfair trade and/or corrupt

practices, maintain records meticulously, protect customer's information, protect data and information related to business or commercial decisions, avoid misrepresentation or misinformation, Demonstrate and practice ethics in day-to-day processes, avoid defaming products and services of competition.

Focus on teamwork: Share relevant inputs, feedback and insights to build mutual trust, Exchange, defend and rethink ideas, Support team members to accomplish goals, facilitate group decision making and deal productively with conflict.

Unit-III (Practical)

Assist in processing insurance applications

Learn to calculate premium and other charges for the product selected by the client, Learn the application process to ensure that the requisite application form is completely filled by the client and requisite documents and charges are obtained, Learn about the after sales activities, Practice Application form filling, Identify correct and complete documents to be collected. **Provide post-policy services:** Learn how to build a rapport with the customer, Be well versed with product knowledge to advise the customer on monitoring their policy, Learn how to analyse insurance policies to suggest additions/changes to the client.

Unit-IV (Practical)

Assist in processing claims: Be hands-on with the claim process for each insurance product, Learn the documentation to be obtained during claim process, Understand the operational procedure of the claim process to advise the customer, Be thorough with the process of surrender of a policy. **Communicate effectively and achieve customer satisfaction:** Learn the art of active listening and paraphrasing effectively in order to understand the customer, Understand the effects of factors like language, gender, cultural and social differences in addressing customers, superiors and colleagues, Learn how to maintain a positive attitude, correct body language, dress code, gestures and etiquette, Understand work output requirements, and receive feedback with positive attitude, Cooperate, coordinate, and collaborate to achieve shared goals, Address problems by educating, eliminating or escalating, Learn the advantages of customer loyalty and satisfaction.

Note for Practicals:

Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed.

Reading List

- Abraham, K.S. (1995). *Insurance Law and Regulation: Cases and Materials*. Westbury NY: The Foundation Press.
- Beard, R.E., Pentikainen, T., & Pesonen, E. (1984). *Risk Theory: The Stochastic Basis of Insurance*. London: Chapman and Hall

- Dionne, G. & Harrington, S.E. (Ed.). (1997). *Foundations of Insurance Economics*. Kluwer academic Publishers, Boston.
- Mishra, M.N. & Mishra, S.B. (2016). *Insurance: Principles and Practice*. S. Chand Publishing, New Delhi.
- Zweifel, Peter & Eisen, Roland. (2012). *Insurance Economics*. Springer.

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/DSC36

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2.5	3	2	2	1	2.5	-	2	2.5	3	2.5
CO2	3	3	2	2	3	1	2.5	-	2.5	3	2.5	2
CO3	3	2	2.5	3	2	1	2.5	-	3	2	2.5	2.5
CO4	3	3	3	2.5	3	1	2.5	-	3	2.5	3	2.5
Average	3	2.62	2.62	2.37	2.5	1	2.5	-	2.62	2.5	2.75	2.37

Course Title: Computer Application in Economics Course Code: MA/Eco/4/SEC4	Total Credits: 4 Practical Credits:4
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Practical Course Components:	Weightage (4 Credits)	Evaluation
Experiment (Including Written Test)	50 (2 Credits)	Internal
Evaluation of Practical File	25 (1 Credit)	Internal/External
Viva-voce	25 (1 Credit)	Internal/External

Note: Experiment consists at least ten practical experiments, written test and two assignments covering the topics of the syllabus. Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed.

Course Outcomes

CO1	Students will be able to learn Computer skills in Finance.
CO2	Students will be able to learn Computer skills in Commerce.
CO3	Students will be able to learn SPSS skills.
CO4	Students will be able to learn Statistical techniques skills.

Unit-I

IT Application to Finance: Authentication and validation of transaction processing; Debit Cards, Credit Cards, Smart Cards, Electronic Funds Transfer, ATM, On Line Banking and On-Line Shopping, Electronic Payment System.

Unit-II

IT Application to Commerce: Internet, Intranet, Extranet, LAN, MAN, WAN, WWW, E-Mail, Search Engines; Computer Networking and recourse sharing.

E-Commerce: Meaning and scope of E-Commerce, E –Business; E-Commerce Vs. Traditional Commerce; Business Models of E-Commerce B2B, B2C, C2B and G2B.

Unit-III

SPSS-1: Introduction to SPSS, Some basic commands and data entry defining variables, Statistical processing Techniques and Methods: Summarizing and analysis of data; Descriptive Statistics; Comparison of means median, mode dispersion, Kurtosis and Skewness. Correlation and Regressing analysis; Estimation of Growth Rates. An overview of Techniques used in Research: Univariate, Bivariate and Multivariate analysis; Trends Forecasting; testing the significance of parameters.

Unit-IV

SPSS-11: Hypothesis various test of hypotheses and use of SPSS for testing of hypotheses, Correlation and Regressing analysis; Estimation of Growth Rates. An overview of Techniques used in Research: Univariate, Bivariate and Multivariate analysis; Trends Forecasting; testing the significance of parameters.

Reading List

- Parameswaranm R. (2010). *Computer Applications in Business*. S. Chand and Company, New Delhi.
- Sudalaimuthu, S. and Anthony Raj S. (2015). *Computer Applications in Business*. Himalaya Publishing House, New Delhi.
- Rajaraman, V. (2015). *Fundamentals of Computers*. Prentice Hall of India, New Delhi.
- P.T. Joseph, S.J. (2015). *E- Commerce: An Indian Perspective*. PHI Learning, New Delhi.
- Goel, Sushil. (2006). *Computer Application to Business & E-Commerce*. Natraj Publishing House, Karanl.
- Ahlawat Surender (2020). *Computer Application in Economics*. Kindle Direct Publishing. Seattle, Washington. USA.
- David Whiteley. (2006). *E-Commerce: Strategy, Technologies and Applications*. Tata McGraw Hill, New Delhi.

Note: Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed.

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/SEC4

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	2	2	2.5	3	2	2	2	2	2	2
CO2	3	2	2	2	2.5	2	2	2	2	2	2	2
CO3	3	3	3	2	2.5	3	3	-	3	3	2	3
CO4	3	3	3	2	2.5	3	3	-	3	3	3	3
Average	3	2.5	2.5	2	2.5	2.75	2.5	1.5	2.5	2.5	2.25	2.5

Open Elective Courses

<p>Course Title: Economic Theory Course Code: MA/ECO/9/OEC1</p>	<p>Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30</p>
<p>Note for the Paper Setter</p> <p>The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.</p>	
<p>Course Outcomes</p>	
CO1	Familiar with the scope and breadth of Micro Economics along with understanding the core principles of demand and supply so that they are able to apply the understanding of these concepts to comprehend real world problems along with the ability to think critically and analyze economic problems.
CO2	Understanding the core principles of production and costs so that they are able to apply the understanding of these concepts to comprehend real world problems along with the ability to think critically and analyze economic problems.
CO3	Know the scope and breadth of Macro Economics along with understanding the concept national income, equilibrium, multiplier, MEC and accelerator so that they are able to apply the understanding of these concepts to comprehend real world problems along with the ability to think critically and analyze economic problems.
CO4	Identify the phases of the business cycle/inflation and the problems caused by cyclical fluctuations in the market economy, Monetary policy and Fiscal policy along with the ability to reflect on how economic shocks affect aggregate economic performance in the short and long term.
<p>Unit-I</p> <p>Nature and scope of Microeconomics: Difference/relation between micro and macro economics, Role of Assumptions in economic theory. Demand and Supply Function: Law of demand, assumptions, applicability and criticism. Factors affecting demand. Law of supply, factors affecting supply. Consumer Behavior: Cardinal approach, ordinal approach: indifference curve theory, budget line, and consumer's equilibrium.</p>	

Unit-II

Factors of production: Types and need, Characteristics of labour and land. Production Function: Short-run and long-run production functions, Cost Curves: short-run and long-run traditional and modern cost curves.

Unit-III

Macro economics: Scope and features. Aggregate demand and aggregate supply, National income: concepts, measurement, difficulties in calculating national income. Concepts of equilibrium, multiplier, accelerator and marginal efficiency of capital.

Unit-IV

Business cycle: concept, characteristics and phases of business cycle. Fiscal and monetary policy.

Inflation: Concepts, types, causes, effects and measures to control the inflation.

Reading List

Ackley, G (1978), *Macroeconomics: Theory and Policy*, Macmillan, New York.

Banson, W.A. (1989), *Macroeconomic Theory and Policy, (3rd Edition)*, Harper and Row, New York.

Dorn Busch, R. and f. Stanley (1997), *Macroeconomics*, McGraw Hill, Inc. New York.

Heijdra, B.J. and V. P. Fredericck (2001), *Foundation of Modern Macroeconomics*, Oxford University Press, New Delhi.

Jha, R. (1991), *Contemporary Macroeconomics Theory and Policy*, Wiley Eastern Ltd., New Delhi.

Koutsoyiannes. A. "*Microeconomics*" (Macmillan)

Lipsey, R.G. and Chrysal, K. Alec "An Introduction to Positive Economics" (OUP)

Salvatore, D. "Microeconomics Theory" (Schaum's Outline series, TataMcCraw Hill)

Shapiro, E. (1996), *Macroeconomics Analysis*, Galgotia Publication, New Delhi.

CO-PO and CO-PSO Matrix for the Course MA/ECO/9/OEC1

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3.0	2.75	2.75	3.0	2.5	2.25	2.5	1	3	2.75	2.5	2.5
CO2	3.0	2.5	2.75	2.5	2.5	2.25	2.5	1	3	2.75	3.0	2.5
CO3	3.0	2.75	2.75	3.0	2.5	2.25	2.5	1	3	2.75	2.75	2.5
CO4	3.0	3.0	2.75	2.5	2.5	2.25	2.5	2	3	2.75	2.75	2.5
Average	3.0	2.75	2.75	2.75	2.5	2.25	2.5	1.25	3	2.75	2.75	2.5

Course Title: Issues of Economic Development Course Code: MA/ECO/9/OEC2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO 1	Understand and analyze the nature of growth & development with a view to measure and mark its trajectory.	
CO 2	Able to understand and analyze various economic problems in the context of Indian economy and create the ability to measure the extent of problems and how to remove them.	
CO 3	Understand the historical perspective of scientific outlook of sociological thought.	
CO 4	To understand the evolution of various stages of economic development.	
Unit-I Concept of Economic Development: Economic development vs. economic growth, importance of economic development. Obstacles to economic development: Economic and non economic factors and measures to break vicious circles. Determinants of development: Economic, non-economic and external forces. Measuring development: PQLI and HDI.		
Unit-II Inequality and Poverty: concept, measuring inequality, measuring poverty, characteristics of poverty groups, measures for alleviation of poverty, inequality and unemployment.		
Unit-III Scientific Socialist World Outlook: World outlook, Idealism and materialism, Metaphysics and dialectics, Laws of dialectics.		
Unit-IV Distinguishing features of Primitive Communism/ society, Slavery, Feudalism/serfdom, Capitalism/imperialism and Socialism/communism.		
Reading List Meir, G. M.(1995), <i>Leading Issues in Economic Development</i> , Oxford University Press, New Delhi. Mishra S.K. and V.K. Puri, <i>Economics of Development and Planning</i> , Himalaya, Publishing House, Mumbai		

Todaro, M. P. *Economic Development*, Latest Edition, Longman, London.

ThirlwalA.P.(2003), (6th Edition),*Growth and Development*, seventh Edition, Macmillan, New York.

Karl Marx & F. Engels (1977): *Manifesto of the Communist Party*, Progress Publishers, Moscow, 2nd edition, pp. 34-74.

Joseph Stalin (1978): *Dialectical Materialism*, National Book Agency, Pvt. Ltd., Calcutta, pp.5 to 48.

Maurice Cornforth (1971): *Dialectical Materialism*, National Book Agency, Pvt.Ltd. ,Calcutta, 3rd edition, Vol. 1, Chs. 2-9, Vol. II, Chs. 3-10.

John Eaton (1973): *Political Economy*, International Publishers, New York, revised edition, Chs. 2-11.

Hogendorn, J. (1996), *Economic Development*, Addison, Wesley, New York.

CO-PO and CO-PSO Matrix for the Course MA/ECO/9/OEC2

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.7	2	2	2.9	2.9	1	2.7	.1	2.9	2.5	2.7	2.5
CO2	2.6	2.7	2	2.5	2.8	1.7	2.1	.7	2.6	2.5	2.5	2.7
CO3	2.4	2.5	2.8	2.1	2.4	2.2	2.5	.6	2.4	2.7	2.2	2.5
CO4	2.5	1.9	2.2	2.2	2.8	2	2.4	.4	2.2	2.4	2.4	2.5
Average	2.57	2.27	2.25	2.42	2.75	1.72	2.42	0.04	2.52	2.52	2.45	2.55

Course Title: Indian Economy: Issues; Outlook and Prospects Course Code: MA/ECO/9/OEC3		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Peep into the history of India's economic development and critically evaluate the progressive realization of Indian economy.	
CO2	To understand the development of Agriculture and interdependence of industry and agriculture in India.	
CO3	To understand the role of industrial development in India.	
CO4	To understand the importance of foreign trade in developing economy.	
Unit-I		
Basic characteristics of the Indian economy as developing Economy Major issues of development, Indian economy in the pre-British period, Economic consequences of British conquest. Decline of Indian Handicrafts and progressive Realization of the Indian economy. Commercialization of agriculture Post Green Revolution.		
Unit-II		
Interdependence of agriculture and industry Agricultural Economics: Its scope and nature, Difference between the agriculture and industry, Role of agriculture in economic development, contributions of industry to the development of agriculture, Interdependence of agriculture and industry, agricultural price policy for developing countries		
Unit-III		
Industry and Economic Development Role of the Industrialization & Pattern of the Five year plan. Role of small scale industries in Indian Economy. Privatizations, liberalization and globalization. Its impact on Indian economy		
Unit-IV		
Importance of Foreign Trade for developing Economy India's Balance of Payments on Current Account. Current Export and Import policy, Impact of WTO on various aspects of Indian Economy. WTO, subsidies and agriculture.		

Reading List

Ahluwalia, I.J., Industrialising Growth in Indian Stagnation since Mid 60's 1985.

Brahmanada, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy: Inter-State Perspectives, Bookwell, Delhi.

Choudhary, Primit (ed.), Aspects of Indian Economic Development, 1971.

Dantwala, M.L., Indian Agriculture Development since Independence, Oxford, IBH Pub. Co., New Delhi, 1991

Datta, R. and K P. M. Sundhram (latest edition), Indian Economy. S. Chand & Company Ltd. New Delhi

Jalan, Bimal (ed.), The Indian Economy Problems and Prospects.

Kapila, Uma (2014-2015). Indian Economy since independence. Academic Foundation, New Delhi.

Lokanathan, V. (2018). A History of Economic Thought. S. Chand & Co. Ltd., Chandigarh.

Mishra, S. K. & Puri, V.K. (2020). Indian Economy. Himalaya Publishing House, New Delhi. Ministry of Finance (2020)

Soni, R. N. Leading Issues in Agricultural Economics, Vishal Publishing Company.

Wadhwa, C.D.(ed.), Some Problems of India's Economic Policy, 1987.

CO-PO and CO-PSO Matrix for the Course MA/ECO/9/OEC3

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	3	3	2	2	2.5	-	3	2	2	2
CO2	3	2	3	2	3	2	2.5	-	3	2	2	2
CO3	3	2	3	2	2	2	2.5	-	3	3	2	2
CO4	3	2	3	3	3	2	2.5	-	3	3	2	2
Average	3	2	3	2.5	2.5	2	2.5	-	3	2.5	2	2

Course Title: Money, Banking and Public Finance Course Code: MA/ECO/9/OEC4		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	The student shall understand the different aspects of monetary system.	
CO2	Understanding the banking systems and its various aspects.	
CO3	Attain fundamental in-depth knowledge of various thoughts regarding public finance and public debt along with the sustainability, burden & management of public debt.	
CO4	To understand the concept of public expenditure and budgeting along with their relevance.	
Unit-I Money Barter system; Evolution, definition and functions of money; Classification of Money; Role of money in various economic systems; Gresham's Law of money; Demand for Money-different views, Factors affecting the demand for money; Supply of money-determination, factor affecting the supply of money.		
Unit-II Banking System Meaning & functions of Commercial banks; Credit creation- Process and limitations; Meaning and functions of Central Banks; Difference between Central Bank and Commercial Banks; Role of Central Bank in an Under-Developed economy; Credit Control- Objectives of control of money supply; Quantitative and Qualitative methods of credit control.		
Unit-III Public Finance Meaning, scope and subject matter, Role of public finance in national economy; Principle of maximum social advantage Concepts of public goods, private goods, mixed goods and features of public goods. Public debts Objectives and sources of public debt; classification and effects of public debt; burden of		

public debt; Principles of debt management and redemption of public debt.

Unit-IV

Public Expenditure

Meaning, Classification and role of public expenditure; canons and effects of public expenditure.

Budgeting

Meaning and purpose of budget: Types or classification of Budget; Budget making process in India; Zero base budgeting.

Reading List

- Bagchi, Amaresh (Ed.). (2005) *Readings in Public Finance*. Oxford University Press.
- Bain, K. & Howells, P. (2009) *Monetary Economics: Policy and its Theoretical Basis*. Macmillan International Higher Education.
- Frisch, H. (1983) *Theories of Inflation*. Cambridge University Press.
- Galbacs, Peter (2015) *The Theory of New Classical Macroeconomics: A Positive Critique*. Springer.
- Gali, J. (2015) *Monetary Policy, Inflation and Business Cycles*, Princeton University Press.
- Ganguly, S. (1963). *Public Finance: A Normative Approach*. Nababharat Publishers.
- Greiner, A. & Fincke, B. (2009) *Public Debt and Economic Growth*. Springer.
- Handa, Jagdish (2000) *Monetary Economics*, Routledge, London.
- Jha, R. (1991) *Contemporary Macroeconomic Theory and Policy*. Wiley Eastern Limited.
- Ihori, Toshihiro (2016) *Principles of Public Finance*. Springer.
- Levacic, Rosalind & Rebmann, Alexander (2015) *Macroeconomics*, Macmillan, London.
- Lucas, R.E. (1983) *Studies in Business Cycle Theory*, MIT Press.
- Mankiw, Gregory N. (2003) *Macroeconomics*, Worth Publishers.
- Mishkin, F.S. (2016). *The Economics of Money Banking and Financial Markets*. Pearson.
- Romer, David (2012). *Advanced Macroeconomics*. McGraw Hill Education.
- Romer, D. & Mankiw, N. Gregory (1995). *New Keynesian Economics (Volume-2)*. MIT Press.
- Sheffrin, Steven M. (1996) *Rational Expectations*. Cambridge University Press

CO-PO and CO-PSO Matrix for the Course MA/ECO/9/OEC4

Course Outcomes	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3	4
CO1	3	2.5	3	2	2	1	2.5	-	2	2.5	3	2.5
CO2	3	3	2	2	3	1	2.5	-	2.5	3	2.5	2
CO3	3	2	2.5	3	2	1	2.5	-	3	2	2.5	2.5
CO4	3	3	3	2.5	3	1	2.5	-	3	2.5	3	2.5
Average	3	2.62	2.62	2.37	2.5	1	2.5	-	2.62	2.5	2.75	2.37

Course Title: Goods & Services Tax (GST)Accounts Assistant Course Code: MA/ECO/9/OEC5	Total Credits: 4	
	Theory Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20	Practical Credits:2 Time: 3 Hrs. Marks: 50 End Term: 30 Practical Record: 10 Viva Voce: 10

Note for the Paper Setter

The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions selecting at least one question from each unit.

Course Outcomes

CO1	Understanding of GST concepts and taxation
CO2	The students will be able to calculate the tax liabilities and maintain the book records
CO3	Practice on working and levying on CGST and SGST
CO4	Practice on registration, maintenance of record and payment of GST

Unit-I (Theory)

Understanding GST Concepts: Describe Goods & Services with their cross linkages; identify the Fundamental Concepts of GST; identify cases where CGST and SGST will work simultaneously; explain how IGST is levied; identify whether a transaction is taxable under CGST, IGST or SGST

Incidence of Taxation: Identify the incidence of taxation; learn about time of supply of goods; learn on purpose of place of supply; define location of supplier of goods; define the recipient with respect to supplies involving payment and supplies not involving payment

Registration: Outline the PAN based registration process, its rules, and the purpose of registration; explain single or separate registration for business vertical; identify whether registration should be done centrally or selectively in each state; list the details to be furnished during registration; identify common mistakes made during

registration; differentiate between taxable person vs. registered person; identify the registration timelines–migrations; explain the benefits of registration; demonstrate form filling with case studies

Payment under GST :Identify the types of payment, modes of payment, rules of collection of tax; prepare different challans, CPIN &CIN; distinguish between TDS and TCS; identify cases for reversal of credit; calculate tax based on various case studies; memorize the due dates for payment; list the penalties for late payments; demonstrate the process of online payment

Unit-II (Theory)

Calculation of Tax Liability: Define input credit; identify input tax credit eligibility using case studies; explain the concept of reversal of vat; define tax liability for good sin transit; define consideration; value transaction shaving non-monetary consideration

Maintenance of books &records: Maintain different types of ledgers; prepare documents such as in voice, credit note and debit note; identify the different types of returns and their applicability to the business-monthly returns ,quarter lyre turns; navigate the GST websites-GSTN, CBEC etc.; file periodic returns online

Unit-III (Practical)

Understanding GST Concepts: Describe Goods & Services with the ircross linkages; identify the Fundamental Concepts of GST; identify cases where CGST and SGST will work simultaneously; explain how IGST is levied; identify whether a transaction is taxable under CGST, IGST or SGST

Incidence of Taxation: Identify the incidence of taxation; learn about time of supply of goods; learn on purpose of place of supply; define location of supplier of goods; define the recipient with respect to supplies in evolving payment and supplies not involving payment

Calculation of Tax Liability: Define input credit; identify input tax credit eligibility using case studies; explain the concept of reversal of vat; define taxliability for good sin transit; define consideration; value transaction shaving non-monetary consideration

Unit-IV (Practical)

Registration: Outline the PAN based registration process ,its rules, and the purpose of registration; explain single or separate registration for business vertical; identify

whether registration should be one centrally or selectively in each state; list the details to be furnished during registration; identify common mistakes made during registration; differentiate between taxable person vs. registered person; identify the registration timelines–migrations; explain the benefits of registration; demonstrate form filling with case studies

Maintenance of books & records): Maintain different types of ledgers; prepare documents such as invoice, credit note and debit note; identify the different types of returns and their applicability to the business-monthly returns, quarterly returns; navigate the GST websites-GSTN, CBEC etc.; file periodic returns online

Payment under GST: Identify the types of payment, modes of payment, rules of collection of tax; prepare different challans, CPIN & CIN; distinguish between TDS and TCS; identify cases for reversal of credit; calculate tax based on various case studies; memorize the due dates for payment; list the penalties for late payments; demonstrate the process of online payment

Note for Practicals:

Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed.

Reading List

Mehrotra, H. C. and V. P. Aggarwal (2020) *Goods & Services Tax*, Sahitya Bhawan Publications, Agra

Chawla R. (2017) *A Hand Book on GST in India*, Life Span Publishers, New Delhi

Gupta, R. (2018) *Hand Book on GST*, Satyam Law International Publications

Note:

1. Only the students with graduation in commerce or allied subject are eligible to take this course.
2. The criteria and scheme of assessment of the trainees by the BFSISSC have been added as annexure 1 and 2

CO-PO and CO-PSO Matrix for the Course MA/ECO/9/OEC5

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.0	2.0	1.5	1.5	2.5	2.0	1.5	1.25	1.5	1.5	1.25	1.25

CO2	2.0	2.0	1.5	1.5	2.5	2.0	1.5	1.25	1.5	1.5	1.25	1.25
CO3	2.0	2.0	1.5	1.5	2.5	2.0	1.5	1.25	1.5	1.5	1.25	1.25
CO4	2.0	2.0	1.5	1.5	2.5	2.0	1.5	1.25	1.5	1.5	1.25	1.25
Average	2.0	2.0	1.5	1.5	2.5	2.0	1.5	1.25	1.5	1.5	1.25	1.25

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Kamlesh Jethwa

Mang Prasad

**Learning Outcomes based Curriculum Framework
(LOCF)**

For

**M.Sc. Physics
(Postgraduate Programme)
w.e.f. Session 2021-22**

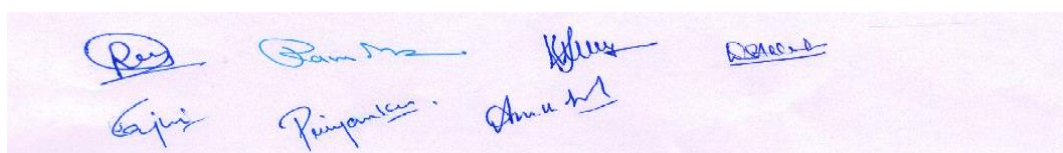


**Department of Physics
Chaudhary Devi Lal University
Sirsa-125055, Haryana
2021**

Ray *Pam Ma* *Khena* *Rohit*
Gupta *Panjwani* *Anu* *Rohit*

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1. About the Department

The Department of Physics, Chaudhary Devi Lal University, Sirsa was established in 2004. Presently, the Department is located in CV Raman Bhawan of the University. The first batch of M. Sc. Physics was commenced in August, 2004. The department has produced about 600 postgraduate and 27 Ph.D. scholars, and most of them are actively engaged in jobs in various fields. Currently, the department is running M.Sc. (two year) and Ph.D. programmes in Physics. The Department has two well aerated classroom for M.Sc. (Previous) and M.Sc. (Final) with proper sitting arrangement, electricity facility, projector and/or smart boards. The Department has one air-conditioned computer lab having twenty two computers with LAN internet facility. Also, the Department has two well-equipped laboratories for M.Sc. programme and three research laboratories for Ph.D. programme.

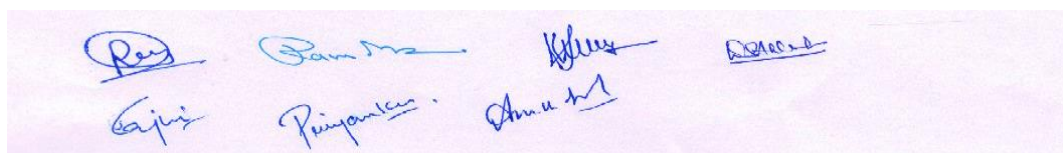
The holistic development of the students to compete the changing scenario of the world in the 21st century world is of prime importance. The Department of Physics is committed to impart quality education comprising academic knowledge and technical skills to all the students. Our aim is to increase their curiosity of knowledge and progression in learning; and to activate their full potential for academic excellence and for facing challenges of life during and beyond their study. While the pace and the path towards achieving these outcomes will vary from person to person, the goal of department for every physics student is to inculcate and possess required academic capabilities/capacities by the time they graduate. The department is making sincere efforts to produce scholars inculcated with critical thinking and problem solving, creativity and innovation, civic literacy, adaptability and other cognitive capacities necessary for successful life in the 21st century.

2. Learning Outcomes based Curriculum Framework

The Choice Based Credit Scheme (CBCS) evolved into learning outcome-based curriculum framework and provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill-based courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Grading system provides uniformity in the evaluation and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations which enables the student to move across institutions of higher learning. The uniformity in evaluation system also enables the potential employers in assessing the performance of the candidates.

2.1 Objectives of the Programme

- M.Sc. Physics pass out students will have knowledge of fundamental laws and principles of physics along with their applications in diverse areas.
- Post graduate degree holders will develop teaching and research skills which might include advanced laboratory techniques, numerical methods, computer interfacing etc.
- After completing M.Sc. Physics, the students will become effective teacher and/or researcher; and will be able to exhibit good scientific knowledge and temperament in diverse fields/environment.
- The students will develop the skill to plan, execute and report on experimental and/or theoretical physics problems with effective scientific approach in future endeavour.



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2.2 Programme Outcomes (POs)

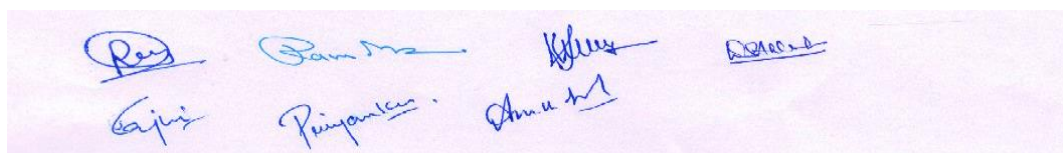
After completing the programme, the students have:

PO1	Knowledge	capability of demonstrating comprehensive disciplinary knowledge gained during course of study
PO2	Research Aptitude and Investigation	ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions
PO3	Communication	ability to communicate effectively on general and scientific topics with the scientific community and with society at large
PO4	Problem Solving	capability of applying knowledge to solve scientific and other problems using theoretical and practical techniques, skills and tools.
PO5	Science and Society	ability to apply reasoning to assess the different issues related to society and the consequent responsibilities relevant to the professional scientific practices
PO6	Life-Long Learning	aptitude to apply knowledge and skills that are necessary for participating in learning activities throughout life
PO7	Modern Tool Usage	ability to use and learn techniques, skill and modern tools for scientific practices
PO8	Project Management	ability to demonstrate knowledge and understanding of the scientific principles and apply these to manage projects

2.3 Programme Specific Outcomes (PSOs)

After completing the programme, the students:

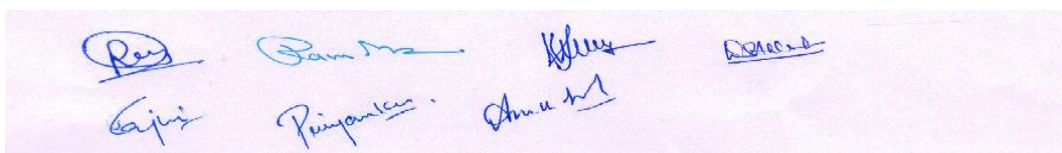
PSO1	acquire core as well as specialized/disciplinary knowledge in physics including the major premises of classical mechanics, quantum mechanics, mathematical physics, electronics, electrodynamics, solid state physics, statistical mechanics, atomic & molecular physics, nuclear & particle physics, laser & spectroscopy, computational physics and material science & nanotechnology.
PSO2	learn how to design and conduct experiments demonstrating their understanding of scientific methods/processes/phenomena; and have an understanding of analytical methods required to interpret and analyze results and draw conclusions.
PSO3	develop written and oral communications skills in communicating physics-related topics; and realize and develop an understanding of the impact of science particularly physics on the society.
PSO4	apply conceptual understanding and critical thinking of the physics to general real-world situations; and learn to analyze physical problems and develop correct solutions using theoretical and experimental techniques/tools and skills.



Handwritten signatures of faculty members in blue ink, including names like Raju, Samir, Kishor, Anand, and Rajan.

3. Programme Structure

M.Sc. Physics - a four-semester postgraduate programme is of 112 credits weightage consisting of Core Courses (CC), Discipline Specific Elective Courses (DSC), Skill Enhancement Courses (SEC) and Open Elective Courses (OEC).



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Table 1: Courses and Credit Scheme

Semester	Core Courses (CC)		Discipline Specific Elective Courses (DSC)		Skill Enhancement Courses (SEC)		Open Elective Courses (OEC)		Grand Total Credits
	1	2	3	4	5	6	7		
	No. of Courses	Total Credits	No. of Courses	Total Credits	No. of Courses	Total Credits	A total of 12 credits are to be earned from other Departments or from MOOCs. Students have to opt open elective course(s) in consultation with the Chairperson of the department and the Director, University Centre for Outreach Programmes and Extension		2+4+6+7
I	5	20	1	4	-	-			112
II	6	21	1	4	-	-			
III	3	10	2	8	2	8			
IV	3	9	2	8	2	8			
Total	Core Credits	60	Discipline Specific Elective Credits	24	Skill Enhancement Credits	16	Open Elective Credits	12	112
Per-centage (%)	Core Credits	53.57	Discipline Specific Elective Credits	21.43	Skill Enhancement Credits	14.29	Open Elective Credits	10.71	100

Table 2: Detailed break-up of Credit Courses


	Core Courses	Discipline Specific Elective Courses	Skill Enhancement Courses	Open Elective Courses	Total Courses
	CC	DSC	SEC	OEC	CC+ DSC+ SEC
Semester I	CC1 CC2 CC3 CC4 CC5	DSC1-A or DSC1-B	-	OECs offered by other departments or MOOCs (Students may be enrolled in any of the four semesters). Students have	6
Semester II	CC6 CC7 CC8 CC9 CC10 CC11	DSC2-A or DSC2-B	-		7

Semester III	CC12 CC13-A or CC13-B CC14	DSC3-A or DSC3-B DSC4-A or DSC4-B	SEC1-A or SEC1-B SEC2-A or SEC2-B	<i>to opt open elective course(s) in consultation with the Chairperson and the Director, University Centre for Outreach Programmes and Extension</i>	7
Semester IV	CC15 CC16-A or CC16-B CC17	DSC5-A or DSC5-B DSC6-A or DSC6-B	SEC3-A or SEC3-B SEC4-A or SEC4-B		7

Table 3: Course code and Title along with credits details

Sr. No.	Course Code	Course Title	Credits		
			Theory	Practical	Total
Semester I					
1.	MSc/Phy/1/CC1	Mathematical Physics	4	-	4
2.	MSc/Phy/1/CC2	Classical Mechanics	4	-	4
3.	MSc/Phy/1/CC3	Fundamentals of Electronics	4	-	4
4.	MSc/Phy/1/CC4	Quantum Mechanics-I	4	-	4
5.	MSc/Phy/1/CC5	Physics Lab-I (General)	-	4	4
Choose any one out of the following options DSC1-A or DSC1-B					
6.	MSc/Phy/1/DSC1-A	Physics Lab-II (Electronics)	-	4	4
	MSc/Phy/1/DSC1-B	MOOC available on SWAYAM portal			
Total			16	8	24
Semester II					
1.	MSc/Phy/2/CC6	Solid State Physics	4	-	4
2.	MSc/Phy/2/CC7	Classical Electrodynamics	4	-	4
3.	MSc/Phy/2/CC8	Atomic & Molecular Physics	4	-	4
4.	MSc/Phy/2/CC9	Quantum Mechanics-II	4	-	4
5.	MSc/Phy/2/CC10	Physics Lab-III (General)	-	4	4
Choose any one out of the following options DSC2-A or DSC2-B					
6.	MSc/Phy/2/DSC2-A	Physics Lab-IV (Electronics)	-	4	4
	MSc/Phy/2/DSC2-B	MOOC available on SWAYAM portal	-	-	
7.	MSc/Phy/2/CC11	Seminar-I	1	-	1
Total			17	8	25
Semester III					
1.	MSc/Phy/3/CC12	Nuclear & Particle Physics	4	-	4
Choose any one out of the following options CC13-A or CC13-B					
2.	MSc/Phy/3/CC13-A	Electrodynamics & Plasma Physics	4	-	4
	MSc/Phy/3/CC13-B	MOOC available on SWAYAM portal			
Choose any one out of the following options SEC1-A or SEC1-B					
3.	MSc/Phy/3/SEC1-A	Laser & Spectroscopy-I	4	-	4
	MSc/Phy/3/SEC1-B	Computational Physics-I			

Choose any one out of the following options DSC3-A or DSC3-B					
4.	MSc/Phy/3/DSC3-A	Materials Science-I	4	-	4
	MSc/Phy/3/DSC3-B	Advanced Electronics-I			
Choose any one out of the following options SEC2-A or SEC2-B					
5.	MSc/Phy/3/SEC2-A	Physics Lab-V(A) (Laser & Spectroscopy-I)	-	4	4
	MSc/Phy/3/SEC2-B	Physics Lab-V(B) (Computational Physics-I)			
Choose any one out of the following options DSC4-A or DSC4-B					
6.	MSc/Phy/3/DSC4-A	Physics Lab-VI(A) (Materials Science-I)	-	4	4
	MSc/Phy/3/DSC4-B	Physics Lab-VI(B) (Advanced Electronics-I)			
7.	MSc/Phy/3/CC14	Cardinal Principles of Academic Integrity and Research Ethics	2	-	2
Total			18	8	26
Semester IV					
1.	MSc/Phy/4/CC15	Statistical Mechanics	4	-	4
Choose any one out of the following options CC16-A or CC16-B					
2.	MSc/Phy/4/CC16-A	Radiation Physics	4	-	4
	MSc/Phy/4/CC16-B	MOOC available on SWAYAM portal			
Choose any one out of the following options SEC3-A or SEC3-B					
3.	MSc/Phy/4/SEC3-A	Laser & Spectroscopy-II	4	-	4
	MSc/Phy/4/SEC3-B	Computational Physics-II			
Choose any one out of the following options DSC5-A or DSC5-B					
4.	MSc/Phy/4/DSC5-A	Materials Science-II	4	-	4
	MSc/Phy/4/DSC5-B	Advanced Electronics-II			
Choose any one out of the following options SEC4-A or SEC4-B					
5.	MSc/Phy/4/SEC4-A	Physics Lab-VII(A) (Laser & Spectroscopy-II)	-	4	4
	MSc/Phy/4/SEC4-B	Physics Lab-VII(B) (Computational Physics-II)			
Choose any one out of the following options DSC6-A or DSC6-B					
6.	MSc/Phy/4/DSC6-A	Physics Lab-VIII(A) (Materials Science-II)		4	4
	MSc/Phy/4/DSC6-B	Physics Lab-VIII(B) (Advanced Electronics-II)			
7.	MSc/Phy/4/CC17	Seminar-II	1	-	1
Total			17	8	25

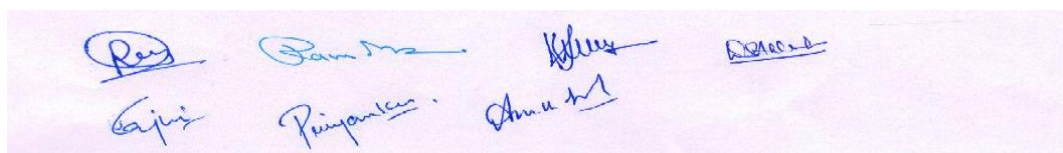


Notes:

1. For one credit of theory, one hour of lecture will be delivered while for one credit of practical, two hours of laboratory work will be conducted, per week.
2. Practical will be conducted in groups; one group will have maximum 20 students.
3. Besides credits from Core, Discipline Specific Elective and Skill Enhancement Courses, students will need to earn additional minimum 12 credits from Open Elective Courses (OECs) offered by other departments of the University or from MOOCs available on SWAYAM portal. Students are free to get enrolled for this category courses in any of the four semesters. Further, students may get enrolled in any of the various PG MOOCs available at SWAYAM portal for this category for the desired credits.
4. MOOC coordinator will display the list of MOOCs for each Discipline Specific Elective Course (DSC) before the commencement of respective semester.
5. A Discipline Specific Elective Course as well as Skill Enhancement Course will be started in the department only when at least 15 students opt for a particular course. In addition, these courses will be mainly allotted to the students in 3rd semester on the basis of their preference and percentage of marks in the 1st semester examination. In the 4th semester, students have to choose corresponding options of these courses as in the 3rd semester.
6. Each student will have to deliver one seminar on the topic allotted by the Departmental Seminar Committee in each year either in odd or in even semester of the programme. The marks will be awarded to the student by the Committee on the basis of attendance (5 marks), seminar report (5 marks), ppt presentation (10 marks) and discussion/viva-voce (5 marks).
7. Experiments in the Laboratory Courses may added/removed from time to time as per availability/necessity of them as per programme. Experiments may be performed physically or virtually as per availability/necessity.
8. The evaluation of Practical Courses (Final Term Exam) will be done by the External and Internal examiners. Experiment and Written part-70 marks, Viva-voce-20 marks and Lab Records-10 marks, (Total-100 marks).
9. Internal Assessment of each theory course is of 30 marks (Mid-term exam-20 marks, Assignment-05 marks and Regularity-05 marks).
10. The relevant Ordinance of PG programme of the university shall be followed by the department.

Table 4: Core courses Offered by the Department

Course Code	Course Title	Credits
MSc/Phy/1/CC1	Mathematical Physics	4
MSc/Phy/1/CC2	Classical Mechanics	4
MSc/Phy/1/CC3	Fundamentals of Electronics	4
MSc/Phy/1/CC4	Quantum Mechanics-I	4
MSc/Phy/1/CC5	Physics Lab-I (General)	4
MSc/Phy/2/CC6	Solid State Physics	4
MSc/Phy/2/CC7	Classical Electrodynamics	4
MSc/Phy/2/CC8	Atomic & Molecular Physics	4
MSc/Phy/2/CC9	Quantum Mechanics-II	4
MSc/Phy/2/CC10	Physics Lab-III (General)	4
MSc/Phy/2/CC11	Seminar-I	1
MSc/Phy/3/CC12	Nuclear & Particle Physics	4
MSc/Phy/3/CC13-A	Electrodynamics & Plasma Physics	4



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MSc/Phy/3/CC13-B	MOOC available on SWAYAM portal	
MSc/Phy/3/CC14	Cardinal Principles of Academic Integrity and Research Ethics	2
MSc/Phy/4/CC15	Statistical Mechanics	4
MSc/Phy/4/CC16-A	Radiation Physics	4
MSc/Phy/4/CC16-B	MOOC available on SWAYAM portal	
MSc/Phy/4/CC17	Seminar-II	1
Total		60

Table 5: Discipline Specific Courses offered by Department

Course Code	Course Title	Credits
MSc/Phy/1/DSC1	A. Physics Lab-II (Electronics)	4
	B. MOOC available on SWAYAM portal	
MSc/Phy/2/DSC2	A. Physics Lab-IV (Electronics)	4
	B. MOOC available on SWAYAM portal	
MSc/Phy/3/DSC3	A. Materials Science-I	4
	B. Advanced Electronics-I	
MSc/Phy/3/DSC4	A. Physics Lab-VI(A) (Materials Science-I)	4
	B. Physics Lab-VI(B) (Advanced Electronics-I)	
MSc/Phy/4/DSC5	A. Materials Science-II	4
	B. Advanced Electronics-II	
MSc/Phy/4/DSC6	A. Physics Lab-VIII(A) (Materials Science-II)	4
	B. Physics Lab-VIII(B) (Advanced Electronics-II)	
Total		24

Table 6: Skill Enhancement Courses offered by the Department

Course Code	Course Title	Credits
MSc/Phy/3/SEC1	A. Laser & Spectroscopy-I	4
	B. Computational Physics-I	
MSc/Phy/3/SEC2	A. Physics Lab-V(A) (Laser & Spectroscopy-I)	4
	B. Physics Lab-V(B) (Computational Physics-I)	
MSc/Phy/4/SEC3	A. Laser & Spectroscopy-II	4
	B. Computational Physics-II	
MSc/Phy/4/SEC4	A. Physics Lab-VII(A) (Laser & Spectroscopy-II)	4
	B. Physics Lab-VII(B) (Computational Physics-II)	
Total		16

Table 7: Open Elective Courses offered by the Department

Course Code	Course Title	Credits
MSc/Phy/9/OEC1	Environmental Physics	4
MSc/Phy/9/OEC2	Physics in Everyday Life	4
Total		8

MSc/Phy/1/CC1–Mathematical Physics

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: The aim and objective of the course is to familiarize the students with the mathematical techniques necessary to approach problems in advanced physics courses. The knowledge of Special functions (Bessel, Hermite, Laguerre, Legendre), concepts of Complex analysis, Fourier analysis, Laplace transforms, tensor analysis, Green's function, integral transform are helpful to approach problems in advanced physics courses and research.

Course Outcomes: At the end of the course, the students will be able to:

CO1: Understand and apply the mathematical methods to solve quantitative problems in the study of physics and engineering. Enhance their problem solving ability and critical thinking.

CO2: Demonstrate contour integrals in relevant problems in Physics.

CO3: Enable to apply integral transform to solve mathematical problems of interest in physics. Can use Fourier transforms as an aid for analyzing experimental data.

CO4: Explain basic, preliminary concepts related to Green's function method and group of elements. Formulate and express a physical law in terms of tensors, and simplify it by use of coordinate transforms.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Introduction to gradient, divergence and curl operator and their physical significance. Matrices: Inverse Matrix, Orthogonal, Unitary and Hermitian Matrices, Independent elements of Orthogonal and Unitary Matrices, Matrix diagonalization, Eigen values & Eigen vectors. Introductory ideas of Fourier series and integrals transform, Fourier transform, Laplace transform: 1st and 2nd shifting theorem and important applications of Fourier and Laplace transform.

Unit-II

Special functions, Frobenius method for series solutions, Legendre equation and its solution: generating function, recurrence relations, Orthogonality of $P_n(x)$, Bessel equation: Bessel's functions of first kind, generating function, recurrence relations, Orthogonality of Bessel Functions, Hermite's and Laguerre's equation: generating functions, recurrence relations, Orthogonality.

Unit-III

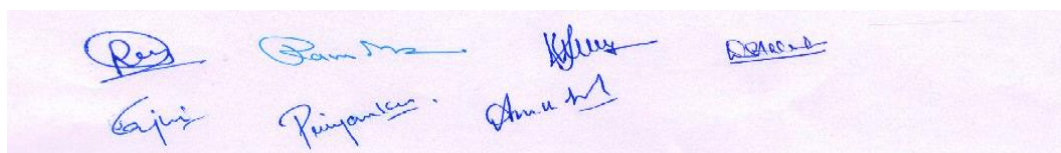
Function of complex variables, Cauchy Riemann conditions, Cauchy integral theorem and formula, Taylor and Laurent's Series, Cauchy's residue theorem, Singular points and evaluation of residues, Jordan's lemma, Evaluation of real definite integrals.

Unit-IV

Introductory group theory, Group representation by matrices: $SU(2)$, $O(3)$. The elements of the group of Schrodinger equation. Elementary probability theory, random variables, binomial, Poisson and normal distributions. Central limit theorem. Green's function, Tensors.

Text/Reference Books:


1. Arfken, G. B. (2012). Mathematical Methods for Physicists. Netherlands: Elsevier.
2. Boas, M. L. (2005). Mathematical Methods in the Physical Sciences. New York: Wiley.
3. Rajput, B. S. (2017). Mathematical Physics. Meerut: Pragati Prakashan.
4. Goyal, J.K. (2016). Laplace and Fourier Transforms. Meerut: Pragati Prakashan.



5. Prakash, S. (2005). Mathematical Physics. New Delhi: Sultan Chand & Sons.
6. Joshi, A. W. (2018). Group Theory for Physicists. New Delhi: New Age International.
7. Chatopadhyay, P. K. (2004). Mathematical Physics. New Delhi: New Age.
8. Balakrishnan, V. (2019). Mathematical Physics. New Delhi: Ane Books.

Mapping matrix of COs, POs and PSOs of MSc/Phy/1/CC1–Mathematical Physics

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	3	2	3	2	3	3	2	3	3
CO2	2	2	2	3	2	2	2	2	2	2	2	3
CO3	2	3	2	3	2	2	3	3	3	2	2	3
CO4	3	2	3	2	3	2	2	2	2	2	2	2
Average	2.5	2.5	2.25	2.75	2.25	2.25	2.25	2.5	2.5	2	2.25	2.75



MSc/Phy/1/CC2–Classical Mechanics

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: The aim of this course is to familiarize the students with the Lagrangian and Hamiltonian formalisms of simple classical systems and makes them able to learn the methods of problem solving related to central force, rigid body dynamics and canonical transformation.

Course Outcomes: At the end of the course, the students will be able to:

CO1: Understand basic formalism of constraints and Lagrangian dynamics. Application of Lagrange's equations in real physical problems.

CO2: Understand Lagrangian formalism for solving Kepler's problem.

CO3: Apply the Variational principles to real physical and engineering problems.

CO4: Enable to solve Hamilton-Jacobi equations and use it for the solution of harmonic oscillator problem.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Constraints of motion and their classification, Generalized coordinates, D'Alembert's principle, Hamilton's principle, Lagrange's equations from Hamilton's principle and D'Alembert's principle, Application of Lagrange's equations; Symmetry properties of space and time and conservation laws, Inertial and non-inertial frames, Rotating frames, Centrifugal and Coriolis forces, Foucault's pendulum.

Unit-II

Two body central force problem: Reduction to the equivalent one body problem, Equation of motion and first integrals, Classification of orbits, Virial theorem, Differential equation of the orbit, Kepler's problem, Rutherford scattering formula, Angular momentum and kinetic energy of a rigid body, Moment of inertia tensor.

Unit-III

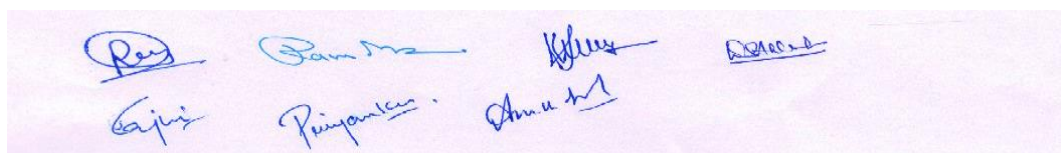
Hamilton's equations of motion, Cyclic coordinates, Hamilton's equations from variational principle, Principal of least action and its applications, Canonical transformation, Legendre transformation, Poisson bracket, Poisson theorem, Invariance of Poisson bracket under canonical transformation, Angular momentum and Poisson bracket, Jacobi identity.

Unit-IV

Hamilton-Jacobi equations and their solutions, Use of Hamilton-Jacobi method for the solution of harmonic oscillator problem, Hamilton's Principal and Characteristic functions and their properties, Small oscillations, Two coupled oscillators, Theory of small oscillations, Eigen value equation, Frequencies of free vibrations, Normal coordinates, Free vibrations of a linear triatomic molecule.

Text/Reference Books:


1. Goldstein, H., Poole, C. P., & Safko, J. (2011). Classical Mechanics. Noida: Pearson Education.
2. Rana, N. C., & Joag, P. S. (2017). Classical Mechanics. New Delhi: Tata Mc Graw Hill.
3. Barger, V. D., & Olsson, M. G. (1994). Classical Mechanics. New York: Mc Graw Hill Education.
4. Arya, A.P. (1997). Classical Mechanics. Noida: Pearson Education.
5. Strauch, D. (2009). Classical Mechanics. New York: Springer.
6. Mondal, C. R. (2008). Classical Mechanics. New Delhi: PHI Learning Pvt. Ltd.

A collection of handwritten signatures in blue ink on a light purple background. The signatures are arranged in two rows. The top row contains four signatures, and the bottom row contains four signatures. The signatures are written in a cursive style and appear to be the names of the authors or reviewers of the document.

7. Kibble, T. W. B., & Berkshire, F. H. (2004). Classical Mechanics. London: Imperial College Press.
8. Kleppner, D., & Kolenkow, R. (2017). An Introduction to Mechanics. Noida: Mc Graw Hill Education India.
9. Merches, I., & Radu, D. (2014). Analytical Mechanics. Florida: CRC Press.

Mapping matrix of COs, POs and PSOs of MSc/Phy/1/CC2–Classical Mechanics

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	3	2	3	2	3	3	2	3	3
CO2	3	3	2	3	2	2	2	2	2	2	2	2
CO3	2	3	2	3	2	2	3	3	3	2	2	3
CO4	2	2	2	2	2	2	2	2	2	2	2	2
Average	2.5	2.75	2	2.75	2	2.25	2.25	2.5	2.5	2	2.25	2.5



MSc/Phy/1/CC3– Fundamentals of Electronics

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: The main objective of this course is to expertise the students about various electronic circuits used in practical applications. After going through this course, the students are supposed to understand fundamental physics of semiconductor materials and the construction and operation of various electronic devices like PN-diode, BJT, FET, Op-amp under different operating conditions and two-port network analysis. In addition the topics of various number systems and their arithmetic, basic logic gates, combinational and sequential circuits and simplification techniques for Boolean Expressions will enable the students to enter into the fascinating world of digital electronics. The idea of differential amplifier and operational amplifier along with their applications is also introduced.

Course Outcomes: After successful completion of the course on Fundamental of Electronics, a student will be able to:

CO1: Aware of the general characteristics of important semiconductor materials and develop a deep understanding of the basic design, operation and characteristics of a PN-junction and a BJT along with knowledge of the two port network analysis and their application in electronic circuit. Learn to devise and analyze various transistor amplifier models.

CO2: Acquaint with the field effect transistor like JFET, MOSFET MESFET, VMOS and CMOS along with frequency response of variously FET amplifiers and various FET biasing arrangements.

CO3: Implement Boolean expression with basic logic gates, design and analysis of different combinational and sequential circuits to achieve desired output. Express numbers, alphabets, special characters etc. in binary representation, perform mathematical operations. Idea of different types of memories and Boolean expression simplification technique are also introduced.

CO4: Explain the basic physics of differential amplifier, operational amplifiers, effect of feedback on op-amp parameters and various applications of op-amp.

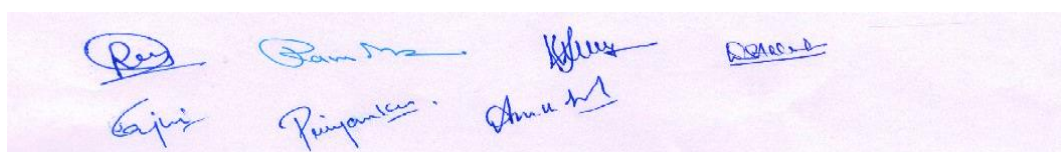
Note for the Paper Setter: The question paper will consists of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Basics Semiconductors Electronics: Introduction, Charge densities in p & n- type materials, Conduction by drift and diffusion of charge, The pn-junction, The pn-diode equation, Diode switching, Clipping and clamping circuits, The junction transistor, Transistor current components, Transistor as an amplifier, Transistor construction, Transistor configuration and characteristics(CE,CB), The Ebers- Moll model, Two port network analysis, Controlled sources, Active circuit models, Gain in decibels, Equivalent circuit for BJT, Transconductance model, Analysis of CE, CB & CC amplifiers.

Unit-II

Field Effect Transistors: Introduction, Junction field effect transistor (J-FET), Volt ampere characteristics of J-FET, FET small signal Model, FET biasing, Applications of FET, Metal oxide semiconductor field effect transistor MOS-FET (Depletion & Enhancement), Metal semiconductor field effect transistor (MESFET), Comparison of p and n channel MOSFET, Comparison of JFET, MOS FET and BJT, FET as voltage variable resistor, Low frequency common source and common drain amplifiers, Complementary MOSFET (CMOS), Vertical MOSFET (VMOS), Unijunction transistor.



Handwritten signatures of examiners in blue ink, including names like Raju, Pankaj, Kishor, and others.

Unit-III

Digital Electronics: Definition of digital signal, Digital(Binary) operation of a system, Basic logic gates- OR, AND , NOT gates, Universal logic gates-NAND & NOR gates, Exclusive OR gate, Boolean algebra, De-Morgan's law, K-Map up to four variables, Half adder, Full adder, Binary adder, Multiplexer and demultiplexer, Encoder and decoder, ROM and its applications, Random access memory (RAM), Flip-flops : RS, JK, T-type, D-Type & Master Slave JK flip-flop, Shift register , Asynchronous and Synchronous counters.

Unit-IV

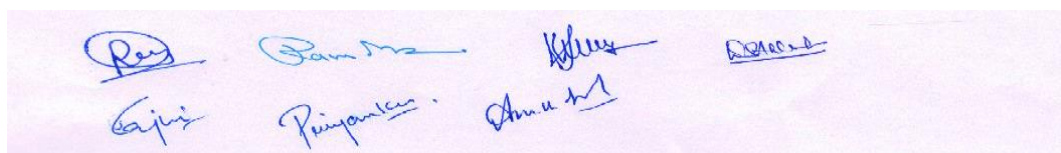
Operational Amplifier: Differential amplifier- Circuit configuration, Dual input balanced output differential amplifier : D.C. & A.C. analysis , The operational amplifier and its block diagram, Schematic symbol, Op-Amp parameters, Ideal Op-Amp, Equivalent circuit of Op-Amp, Open loop Op-Amp configurations, Block diagram representation of feedback configuration, Voltage series feedback amplifier-effect of negative feedback on closed loop voltage gain, Input resistance , Output resistance and Band width, Integrator, Differentiator, Summing, Scaling and Averaging amplifier.

Text/Reference Books:

1. Ryder, J.D. (2016) Electronics Fundamental & Applications. India: Prentice-Hall.
2. Leach, D.P. & Malvino, A.P.(1994)Digital Principles and Applications. Europe: Mc-Graw Hill.
3. Millman, J. & Halkias, C. C.(2017)Integrated Electronics. India: Mc Graw Hill Edu.
4. Malvino, A.P., Brown, J. (2017) Digital Computer Electronics.India : Mc Graw Hill Edu.
5. Jain, R.P. (2009) Modern Digital Electronics. India: Mc Graw Hill Edu.
6. Millman, J. & Grabel(2017) Microelectronics. New Delhi: Mc Graw Hill Edu.
7. Gupta, S.(2010) Electronic devices and Circuits. New Delhi: Dhanpat Rai Pub.
8. Kaushik, D.K.(2010)Handbook of Electronics. New Delhi: Dhanpat Rai Pub.
9. Streetman, B.G. & Banerjee, S.K.(2015)Solid State Electronic Devices. India: Pearson Edu.
10. Boylestd, R.L. & Nashelsky, L.(2012)Electronic Devices and Circuit Theory. India: Pearson.

Mapping matrix of COs, POs and PSOs of MSc/Phy/1/CC3–Fundamentals of Electronics

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	2	2	2	3	2	3	2	2	3
CO2	2	2	3	2	2	3	2	2	2	3	2	2
CO3	3	3	3	3	3	3	3	2	3	3	3	3
CO4	3	2	3	3	2	2	3	2	3	3	3	3
Average	2.75	2.50	2.75	2.5	2.25	2.5	2.75	2	2.75	2.75	2.5	2.75



MSc/Phy/1/CC4– Quantum Mechanics-I

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: Students will acquire essential understanding needed for other courses for theoretical formulation of the physical phenomena at quantum level in matter and radiation fields.

Course outcomes:

CO1: General basic foundation of quantum mechanics needed for various quantum mechanical approaches. Three quantum numbers helps to explain atomic structure, H-atom and multi-electron systems.

CO2: Matrix formulation of quantum mechanics and three different pictures with their respective importance in physics.

CO3: Space quantization, commutator algebra, theory of orbital and spin angular momenta. C.G. coefficients for unitary transformation.

CO4: Stationary perturbation theoretical approach for finding approximate solution of quantum mechanical problems.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Introductory and quantum kinematics: Basic concepts of quantum mechanics, Time dependent and time independent Schrödinger wave equation, Hermitian operators with properties, Expectation values, Probability current density, Ehrenfest's theorem, Spreading Gaussian wave packet, Uncertainty principle, Eigenvalues and eigenfunctions, degeneracy and orthogonality, Schrödinger equation for spherically symmetric potentials, Hydrogen atom.

Unit-II

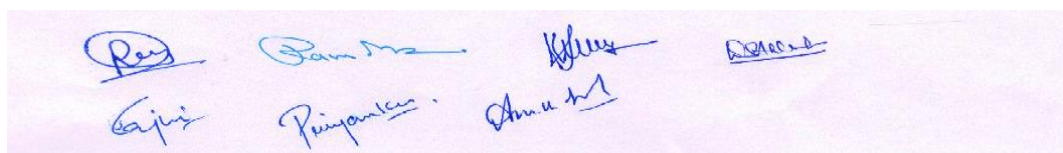
Matrix formulation and quantum dynamics: Matrix algebra, Hermitian and unitary matrices, Unitary transformation and diagonalization of matrices, Representation of dynamical variables and wave functions as matrices, Hilbert space, Dual space: Dirac's Bra & Ket notation, Time dependence of expectation values, Equation of Motion: Schrödinger, Heisenberg and Interaction pictures, Link with classical equation of motion, Quantization of a classical system, Matrix theory of harmonic oscillator.

Unit-III

Quantum theory of angular momentum: The orbital angular momentum operator and its representation in Cartesian and spherical polar coordinates, Eigenvalues and Eigenfunction for L^2 , L_z , Spin angular momentum, Total angular momentum, Eigenvalues and Eigenfunction for J^2 , J_z , Commutation relation for angular momentum, Addition of angular momenta: Clebsch Gordon coefficients and their calculations for (i) $j_1=j_2=1/2$ (ii) $j_1=1, j_2=1/2$.

Unit-IV

Stationary perturbation theory: Introduction, Non-degenerate case - First and second order corrections to energy eigenvalues and eigenfunctions, Fine structure of hydrogen atom (Relativistic and spin-orbit coupling correction), Degenerate case, Removal of degeneracy in second order, Zeeman effect without electron spin, First order Stark effect in hydrogen atom, The variational (Rayleigh-Ritz) method: Expectation value of the energy, Application to excited states, Ground state of helium.



Handwritten signatures of faculty members in blue ink on a light purple background. The signatures are arranged in two rows. The top row contains four signatures, and the bottom row contains four signatures. The signatures are: Row 1: Roy, Sam, K. S., R. S.; Row 2: S. J., P. S., Anu, S. S.

Text/Reference Books:

1. Schiff, L.I. (2017) Quantum Mechanics. India: Mc Graw Hill.
2. Crasemann, B. & Powell, J.L. (2015) Quantum Mechanics. India: Dover Publications.
3. Mathews, P.M. & Venkateson, K. (2017) Quantum Mechanics. India: Mc Graw Hill.
4. Ghatak, A. & Loknathan, S. (2012) Quantum Mechanics. India: Laxmi Publications
5. Zettili, N. (2009) Quantum Mechanics. New York: Wiley Pub.
6. Bransden, B.H. & Joachain (2004) Quantum Mechanics .India:Pearson Pub.
7. Gasiorowicz, S. (2003) Quantum Mechanics .New York: Wiley
8. Sakurai, J.J. & Jim Napolitano (2020) Modern Quantum Mechanics. India: Cambridge University Press.
9. Griffiths, D.J. & Schroeter, D.F. (2019) Introduction to Quantum Mechanics. India: Pearson Publications
10. Shankar, R. (2011) Principles of Quantum Mechanics. New York: Springer.

Mapping matrix of COs, POs and PSOs of MSc/Phy/1/CC4– Quantum Mechanics-I

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2.5	2	2	2	2	2	2	3	2	1.5	3
CO2	3	2	2	2	2	2	2	2	3	2	1.5	2
CO3	2.5	2	1.5	2	1.5	1.5	2	2	3	2	1.5	2
CO4	3	2	1.5	2.5	1.5	1.5	1.5	2	3	2	1.5	2
Average	2.87	2.12	1.75	2.12	1.75	1.75	1.87	2	3	2	1.5	2.25

Handwritten signatures in blue ink on a pink background. The signatures are: Roy, Sam, Kishu, Raju, Rajan, and Anu.

MSc/Phy/1/CC5–Physics Lab-I (General)

Credits: 4 (Practical)

Teaching per week: 8 Hrs.

Max. Marks: 100

Duration of Exam: 4 Hrs.

Objective: The major objective of this course is to expose the various types of mathematical operations like addition, subtraction using digital circuits. Students by this course will be trained to acquire practical knowledge about the characteristics of FET, MOSFET, and the applications of Op-Amp., diodes, resistors and capacitors.

Course outcomes: After completion of experimental, students will be able to:

CO1: perform the mathematical operations like addition, subtraction using digital circuits.

CO2: learn the characteristics and applications of semiconductor based FET, MOSFET.

CO3: understand the working of various types of digital circuits and importance in our daily life.

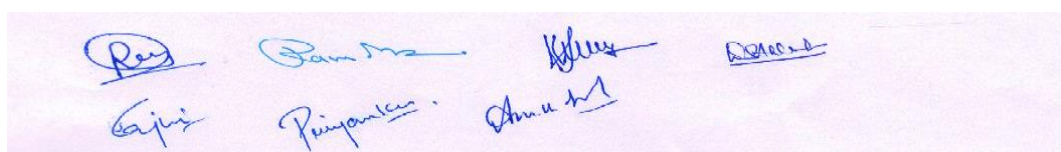
CO4: understand the applications of Op-Amp., diodes, resistors and capacitors.

Experiments:

1. To study the full adder and subtractor.
2. To verify the truth table of four bit adder and subtractor.
3. To study the switching action of FET.
4. To plot the input and output characteristics of JFET.
5. To study of input and output characteristics of MOSFET.
6. To verify the truth table of various types of Flip-Flop.
7. To plot the behavior of clipping and clamping circuits.
8. To design the op-Amp as: subtracting, summing, scaling amplifier.
9. To study the op-Amp in inverting and non-inverting mode.
10. To study various types of counters.
11. To study the Op-Amp as Schmitt trigger.
12. To plot the characteristics of Zener diode.
13. To study the transistor as astable multivibrator.

Text/Reference books:


1. Millman, J. & Halkias, C. C. (2017). Integrated Electronics. India: Mc Graw Hill Edu.
2. Senior, J.M. (2010) Optical Fiber Communication- Principle and Practicals. India: Pearson Edu
- Jafer, D. (2005) Fiber Optics Communication and Technology. India: Pearson Pub.
3. Sze, S.M. (2021) Physics of Semiconductors. New York: Wiley Interscience Pub.
4. Parker, M.A. (2005) Physics of Optoelectronics. Florida: CRC Press.
5. Kothari, D.P. (2017) Basic Electronics. India: Mc Graw Hill Edu.
6. Sukhija, M.S. & Nagsarkar, T.K. (2016) Circuits and Networks. Oxford : Oxford University Press
7. Gupta, S. (2010) Electronic devices and Circuits. New Delhi: Dhanpat Rai Pub.
8. Gayakwad, R. (2015) Op-Amps and Linear Integrated Circuits. India: Pearson College.
9. Maini, A.K. (2007) Digital Electronics: Principles, Devices and Applications. New York: Wiley Pub.
10. Millman, J. & Grabel (2017) Microelectronics. India: Mc Graw Hill Edu.
11. Ryder, J.D. (2016) Electronics Fundamental & Applications. India: Prentice-Hall
12. Jain, R.P. (2009) Modern Digital Electronics. India: Mc Graw Hill Edu.



Handwritten signatures of faculty members in blue ink on a light purple background. The signatures are arranged in two rows. The top row contains four signatures, and the bottom row contains four signatures. The signatures are: Row 1: [Signature 1], [Signature 2], [Signature 3], [Signature 4]; Row 2: [Signature 5], [Signature 6], [Signature 7], [Signature 8].

Mapping matrix of COs, POs and PSOs of MSc/Phy/1/CC5–Physics Lab-I (General)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	2	2	2	2	3	2	3
CO2	2	2	2	2	2	2	2	1	2	3	2	2
CO3	2	2	2	2	2	2	2	2	2	3	2	2
CO4	3	2	2	2	2	2	2	2	2	2	2	3
Average	2.5	2	2	2	2	2	2	1.75	2	2.75	2	2.5



 Raju, Pam, K. S., Raju, Raju, Raju, Raju

MSc/Phy/1/DSC1-A - Physics Lab–II (Electronics)

Credits: 4 (Practical)
Teaching per week: 8 Hrs.

Max. Marks: 100
Duration of Exam.: 4 Hrs.

Objective: The major objective of this course is to revise the basic concepts of electronics through standard set of experiments like verification of various types of Logic Gates and their truth tables, fourier analysis, multivibrators, applications of digital electronics circuits and demonstration of CRO.

Course outcomes: After completion of experimental, students will be able to:

CO1: understand the law of Boolean algebra and learn about the working and applications of various types of digital circuits.

CO2: understand the CRO working and its applications.

CO3: study the importance of fourier analysis.

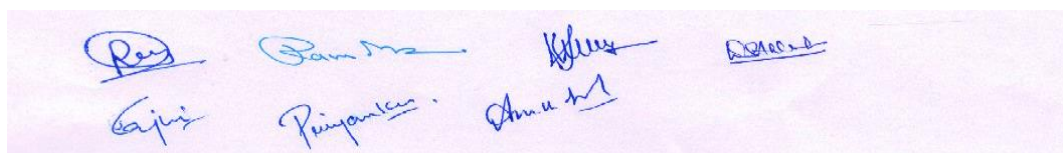
CO4: acquire the knowledge about the working and importance of BJT, Multivibrators and UJT in our daily life.

Experiments:

1. To study the various types of Logic Gates and verify their truth tables.
2. To verify the truth tables of various types of Logic Gates using NAND Gates.
3. To study the switching action of BJT.
4. To study CRO Demonstrator.
5. Find out the ionization potential of a given sample using Thyatron.
6. To study the parity checker and generator.
7. To study Fourier analysis of different wave trains.
8. To measure phase shift, deflection sensitivity & frequency of unknown ac signal using CRO.
9. To verify various Boolean expressions and De Morgan's theorems.
10. To study the UJT characteristics.
11. To study shift registers.
12. To verify the truth tables of different types of counters.
13. To study the monostable and bistable multivibrators.

Text/Reference Books:

1. Millman, J. & Halkias, C. C. (2017). Integrated Electronics. India: Mc Graw Hill Edu.
2. Millman, J. & Grabel (2017) Microelectronics. India: Mc Graw Hill Edu.
3. Ryder, J.D. (2016) Electronics Fundamental & Applications. India: Prentice-Hall
4. Jain, R.P. (2009) Modern Digital Electronics. India: Mc Graw Hill Edu.
5. Senior, J.M. (2010) Optical Fiber Communication-Principle and Practicals. India: Pearson Edu
6. Jafer, D. (2005) Fiber Optics Communication and Technology. India: Pearson Pub.
7. Sze, S.M. (2021) Physics of Semiconductors. New York: Wiley Interscience Pub.
8. Parker, M.A. (2005) Physics of Optoelectronics. Florida: CRC Press.
9. Kothari, D.P. (2017) Basic Electronics. India: Mc Graw Hill Edu.
10. Sukhija, M.S. & Nagsarkar, T.K. (2016) Circuits and Networks. Oxford: Oxford University Press.
11. Gupta, S. (2010) Electronic devices and Circuits. New Delhi: Dhanpat Rai Pub.
12. Maini, A.K. (2007) Digital Electronics: Principles, Devices and Applications. New York: Wiley. Pub.



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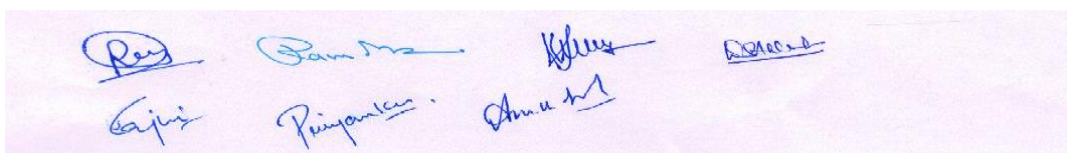
Mapping matrix of COs, POs and PSOs of MSc/Phy/1/DSC1-A - Physics Lab-II (Electronics)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	2	2	2	2	2	2	3	2	3
CO2	3	2	2	2	2	2	2	2	2	3	2	3
CO3	2	2	2	2	2	2	2	1	2	3	2	3
CO4	3	2	2	2	2	2	2	2	2	3	2	2
Average	2.5	2	2	2	2	2	1.75	1.75	2	3	2	2.75

MSc/Phy/1/DSC1-B
MOOC available on SWAYAM portal

Credits: 4

Max. Marks: 100



Four handwritten signatures in blue ink are arranged in two rows. The top row contains four signatures: 'Ravi', 'Santosh', 'Kishore', and 'Rohit'. The bottom row contains four signatures: 'Ajay', 'Pranjana', 'Anu', and 'Anu'.

MSc/Phy/2/CC6– Solid State Physics

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: This course conveys a broad knowledge of solid structure, diffraction of waves, lattice vibrations, free electron gas, Kronig-Penny model and superconductivity. The principles and techniques are basics of materials science research.

Course Outcomes:

CO1: Basic knowledge of lattice structure and diffraction of waves by crystals develop an understanding of solid state.

CO2: Formulate basic models for electrons and lattice vibrations for describing the physics of crystalline materials

CO3: Understand the electron states of solid crystals.

CO4: Knowledge of superconductivity and BCS theory will be imparted to the students.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Crystalline solids, Unit cell, Direct lattice, Two and three dimensional Bravais lattices, Miller indices, Close packed structures, Reciprocal lattice and its application to diffraction technique, Brillouin zones, Diffraction of waves by crystals: X-ray diffraction, Laue, Powder and Rotating crystal methods, Scattered wave amplitude, Crystal structure factor.

Unit-II

Quantization of elastic waves, Phonon momentum, Dispersion relation for the Vibrations of one dimensional monoatomic and diatomic lattices, Acoustical and optical phonon modes, Inelastic scattering of neutrons by phonons, Lattice specific heat (Einstein & Debye model), Free electron Fermi gas, Energy levels and density of orbitals in one dimension, Free electron gas in three dimensions.

Unit-III

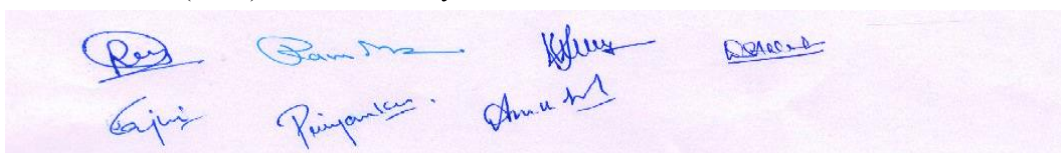
Fermi-Dirac distribution, Electronic specific heat of a metal, Electrons in a periodic lattice (Crystal Potential), Bloch theorem, Crystal potential, Kronig-Penny model, Nearly free electron model, Cyclotron resonance, Hall effect, Fermi surface, de Hass Von Alfen effect, Magneto-resistance, Quantum Hall effect.

Unit-IV

Superconductivity: Meissner effect, Critical field, Critical temperature, London equations, London penetration depth, Coherence length, Energy gap, Isotope effect, BCS theory, Type I & II superconductors, Flux quantization, Normal tunneling & Josephson effect, High T_c superconductors, Fullerenes (Elementary idea).

Text/Reference Books:


1. Kittel, C. (2012). Introduction to Solid State Physics. New York: Wiley.
2. Dekker, A. J. (2008). Solid State Physics. New Delhi: Laxmi Publications.
3. Ashcroft, N., & Mermin N. D. (2003). Solid State Physics. Boston: Cengage Learning.
4. Omar, M. A. (1993). Elementary Solid State Physics. London: Pearson.
5. Srivastava, J. P. (2014). Elements of Solid State Physics. New Delhi: PHI.
6. Wahab, M. A. (2015). Solid State Physics. New Delhi: Narosa.



7. Kakani, S. L., & Hemrajani, C. (2005). Solid State Physics. New Delhi: Sultan Chand & Sons.
8. Hook, J. R., & Hall, H. E. (1991). Solid State Physics. New York: Wiley.
9. Singh, N. (2017). Solid State Physics. New Delhi: Narosa.

Mapping matrix of COs, POs and PSOs of MSc/Phy/2/CC6– Solid State Physics

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	2	2	2	3	3	3	2	2	2
CO2	2	3	2	2	2	2	2	2	3	3	2	2
CO3	3	3	2	2	2	2	2	2	2	2	2	2
CO4	2	2	2	2	2	2	2	3	2	2	2	2
Average	2.5	2.75	2	2	2	2	2.25	2.5	2.5	2.25	2	2



MSc/Phy/2/CC7– Classical Electrodynamics

Credits: 4
Lectures: 60
Duration of Exam.: 3 Hrs.

Max. Marks: 100
Final Term Exam.: 70
Internal Assessment: 30

Objective: This course aims to introduce the student to topics in Electrostatics, magnetostatics and Electromagnetic Theory, The course reviews and builds on the students' knowledge of conductors, dielectrics, magnetic fields and Maxwell's equations and includes a study of wave propagation in various media.

Course Outcomes:

CO1: A student having taken this course will have fair knowledge of conductors and dielectrics and will be able to solve the potential and electric field problems.

CO2: It will help the students to build analogy between electrostatics and magnetostatics.

CO3: Students will have fair knowledge of conservation laws and gauges used in electrodynamics.

CO4: A sound knowledge of electromagnetic waves in various bound and unbound media will help the students to solve the difficult problems of electrodynamics.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Electrostatics in Vacuum: Coulomb's Law, Gauss's Law, Scalar potential, conductors and their properties. Electric field inside a cavity carved in a conductor. Laplace and Poisson's equations. Electrostatic potentials, Multipole Expansion: Multipole expansion of the scalar potential of a charge distribution. Dipole moment, quadrupole moment.

Electrostatics of Dielectrics: Dielectrics, Induced dipoles, atomic polarizability, Polarization, Bound charges, Clausius-Mossetti relations, Energy of charges in dielectric media. Boundary value Problems: Uniqueness theorem, Method of images with examples. Boundary conditions for electric field.

Unit-II

Magnetostatics: currents and equation of continuity, Biot-Savart's law, Ampere's law, Differential equations of magnetostatics, Vector potential, Magnetostatic energy. Ohm's law. Boundary conditions for magnetic field at the interface.

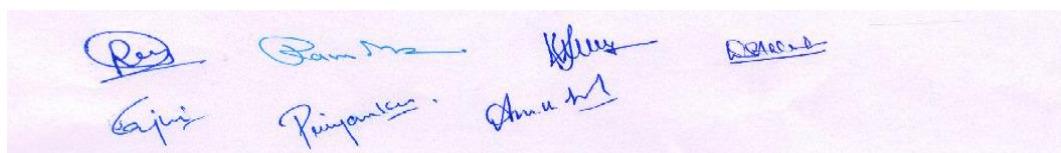
Time Varying Fields and Maxwell Equations: Faraday's law of induction, Displacement current, Maxwell equations, Energy and energy density of the electromagnetic field.

Unit-III

Electrodynamics: Scalar and vector potentials, Gauge transformations, Lorentz and Coulomb gauges, Conservation of energy, Poynting's theorem, Conservation of momentum. EM waves in various unbounded media: Wave equation, plane waves in free space and isotropic dielectrics, polarization, energy transmitted by a plane wave, Waves in conducting media, skin depth, EM waves in rarefied plasma and their propagation in ionosphere.

Unit-IV

EM Waves in Various Bounded Media-Applications: Reflection and refraction of EM waves at plane dielectrics interface, Fresnel's amplitude relations. Reflection and transmission coefficients. Polarization by reflection. Brewster's angle, Total internal reflection, Wave guide: Derivation of field equations between parallel plates and propagation parameters, TE and TM waves, Rectangular wave guides and cavity resonators. Radiation from Localized Time Varying Sources: Solutions of the inhomogeneous wave equation in the absence of boundaries. Fields and radiation of a localized oscillating source. Electric dipole and electric quadrupole fields, centre fed linear antenna.



Handwritten signatures of faculty members in blue ink, including names like Raju, Pankaj, Kishore, and others.

Text/Reference Books:

1. Puri, S. P. (2011). Classical Electrodynamics. India: Alpha Science International Ltd.
2. Griffiths, D. J. (2008). Introduction to Electrodynamics. New Delhi: Prentice Hall India.
3. Jackson, J. D. (1998). Classical Electrodynamics. New Delhi: Wiley Eastern.
4. Laud, B. B. (2011). Electromagnetics. New Delhi: New Age International Publisher.
5. Guru, B. S. & Hizioglu, H. R. (2004). Electromagnetic Field Theory Fundamentals. Cambridge: Cambridge University Press.
6. Kakani, S. L. & Hemrajani, C. (2011). Electromagnetics. New Delhi: CBS Publishers.
7. Schwartz, M. (1987). Principles of Electrodynamics. New York: Dover Publications.
8. Panofsky & Phillips. (1962). Classical electricity and magnetism. New Delhi: Addison-Wesley publishing.
9. Marion, J. B. & Heald, M. A. (1965). Classical Electromagnetic Radiation. San Diego: Academic Press.

Mapping matrix of COs, POs and PSOs of MSc/Phy/2/CC7– Classical Electrodynamics

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	2	1	2	3	1	1	1	1	3	1	2	2
CO2	2	1	2	2	1	2	1	2	3	2	2	2
CO3	2	1	1	2	1	1	1	1	2	1	1	1
CO4	2	2	2	2	1	1	1	1	3	1	2	2
Average	2	1.25	1.75	2.25	1	1.25	1	1.25	2.75	1.25	1.75	1.75

Handwritten signatures and names in blue ink on a pink background. The signatures are: Raj, Sam, Kishu, and Rajesh. Below the signatures are the names: Gajri, Rajanika, Anu, and Rajesh.

MSc/Phy/2/CC8– Atomic & Molecular Physics

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: The main objective is to teach students the basic atomic structures with quantum mechanical approach leading to their fundamental spectroscopies. The effect of magnetic and electric field on the atomic spectra is also highlighted. To teach the students the nature of molecular spectra (rotational, vibrational, electronic and Raman), polyatomic molecules (including diatomic) are classified on the basis of their topological symmetry. The fundamentals of electronic states will also be taught.

Course Outcomes:

CO1: Students will learn the details of atomic and diatomic molecular (diatomic) structures in terms of quantum mechanical treatment elaborately beyond the basic models. It will give the descriptions of fine and hyperfine structure of atoms and molecular.

CO2: The various coupling schemes and interactions of fields with spectra will enrich the student's knowledge about transitions. The details of these spectroscopies would serve as the fundamentals for various concerned experimental studies.

CO3: Students learn to analyze the polyatomic molecules (including diatomic) and to predict the nature of their vibrational spectra depending on their symmetry using IR Raman Spectroscopy.

CO4: The complete picture of rotational, vibrational and electronic spectra of polyatomic molecules will be comprehended. This kind of specialization is expected to provide a larger scope for research in the various related and interdisciplinary areas.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

One electron system: Quantum states of an electron in an atom, Electron Probability density, Space Quantization, Electron Spin, Stern-Gerlach experiment, Spectroscopic terms and selection rules, Spin – orbit interaction energy, Quantum mechanical relativity correction, Hydrogen fine structure, Hyperfine structure, Pauli exclusion principle, Exchange symmetry of wave function.

Unit-II

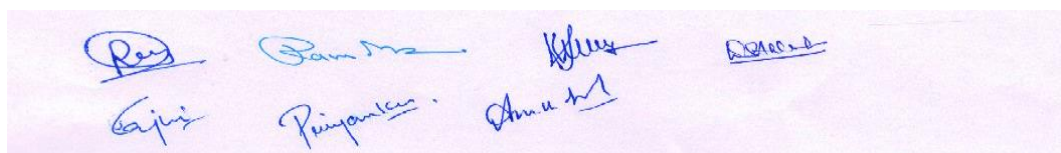
Two electron system: Atomic states arising due to two electron valence system: L-S and J-J coupling for equivalent non-equivalent electrons, Helium atom and its spectra: Ortho and para modification, Interaction with external field: Zeeman effect, Paschen-Back effect, Stark effect and their important example, Characteristics X-ray Spectra: Kossel's Explanation and Moseley Law.

Unit-III

Vibration-rotational spectra of diatomic molecules: Types of molecules, Diatomic linear symmetric-top, Asymmetric-top and Spherical-top, The diatomic molecule as rigid rotator, Harmonic oscillator, Non rigid rotator, Anharmonic oscillator and vibrating rotator (energy levels and infrared spectra), Isotopic effect on vibrational-rotational spectra, Intensity of rotation-vibration spectra, Raman spectra of diatomic molecules.

Unit-IV

Electronic spectra: Resolution of the eigen function, Electronic and total energy: Born-Oppenheimer approximation, Classification of electronic states, Vibrational structure of electronic transitions, Rotational fine structure, P, Q, R branches of a band, The Fortrat parabola, Intensity of electronic bands, Franck-Condon principle: Absorption & emission, Isotopic effect on electronic states.



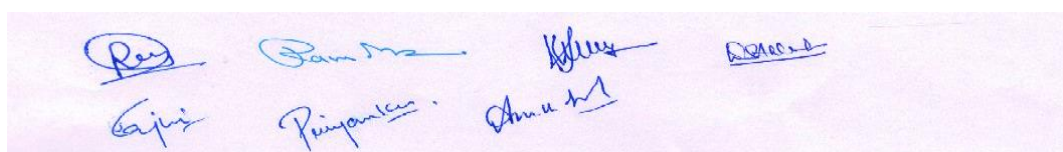
Handwritten signatures of examiners in blue ink, including names like Raju, Pankaj, Kishor, and others.

Text/Reference Books:

1. White, H. E. (1934) Introduction to Atomic Spectra: McGraw-Hill Inc. US.
2. Herzberg, G. (1944) Atomic Spectra and Structure –Vol - I & II
3. Herzberg, G. (1950) Molecular Spectra and Structure.
4. Banwell, C.N. (1994) Fundamentals of Molecular Spectroscopy: McGraw-Hill Higher ed.
5. Raj Kumar (2012) Atomic and Molecular Spectra Laser: Kedar Nath Ram Nath, Merrut, India
6. Nair, K. P. R. (2006) Atom Molecules and Laser: Alpha Science International Ltd. USA.
7. Bransden and Joachain (1982) Physics of Atom & Molecules (Prentice Hall).
8. Huber and Hertzberg (1950) Molecular Spectra and Molecular Structure: Springer.
9. Ghoshal, S. N. (1991) Atomic Physics: S-Chand
10. Aruldas, G. (2014) Molecular Structure and Spectroscopy: PHI learning Pvt. Ltd.

Mapping matrix of COs, POs and PSOs of MSc/Phy/2/CC8– Atomic & Molecular Physics

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	2	3	2	2	3	3	2	3	3
CO2	3	3	2	3	3	3	2	2	3	3	3	3
CO3	3	2	3	2	2	2	2	3	3	2	2	3
CO4	3	3	3	3	3	3	2	3	3	1	3	3
Average	3	2.5	2.75	2.5	2.75	2.5	2	2.75	3	2	2.75	3



Handwritten signatures of faculty members in blue ink, including names like Raj, Ram, Kishor, and others.

MSc/Phy/2/CC9– Quantum Mechanics-II

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: Objective of the current course is to familiarize the students to the formal structure of the subject and to equip them with techniques in various approximation methods like time dependent perturbation, concept of scattering, idea of identical particles, relativistic quantum mechanics and their applications so that they can use such concepts in various branches of Physics as per requirement.

Course Outcomes: After successful completion of the course on Quantum Mechanics-II, the outcomes are as:

CO1: Students would be able to explain the fundamentals of quantum mechanical approximation methods like WKB approximation, time dependent perturbation theory and semi-classical theory of radiations and its applications.

CO2: Students get enabled to understand the basics of quantum theory of scattering and various associated scattering phenomena like partial wave analysis, scattering by perfect rigid sphere, square well potential, Born approximation.

CO3: Students would be capable to learn about symmetric and anti-symmetric wave function identical particles, commutation relations, spin-statistics connection and He-atom.

CO4: Students would be introduced to KG equation, Dirac equation, spin orbit energy and negative energy states in relativistic quantum mechanics and its contribution for advancement in quantum physics.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit I

Approximation Methods : The WKB approximation: Introduction, The WKB solutions, The connection formulae, Energy level of a potential well, Tunneling through a barrier, Time Dependent Perturbation Theory : First order perturbation, Transition probability for constant and harmonic perturbation, Transition into a continuum of final states- Fermi Golden rule, Semi-Classical Theory of Radiation: Interaction of an atom with electromagnetic radiation, Transition probability for absorption and induced emission.

Unit II

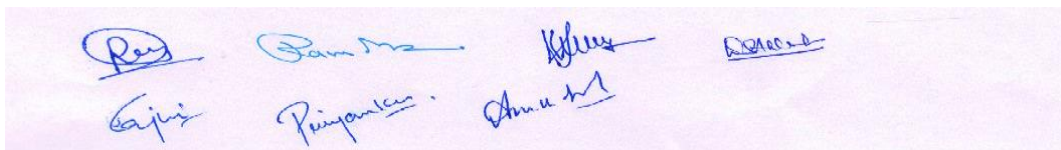
Quantum Theory of Scattering : Basic concept of scattering, Scattering cross section , Scattering amplitude, Laboratory and Centre of mass system, Method of partial wave analysis: Differential cross section, Total cross section, Optical theorem and phase shift, Relation of phase shift with potential, Scattering by perfectly rigid sphere and by square well potential, Born approximation, Validity of Born approximation and its applications to scattering of electron by screened Coulomb potential.

Unit III

Identical Particles and Spin : Physical meaning of identity, Symmetric and anti-symmetric wave function, Construction of symmetric and anti-symmetric wave function from unsymmetrized functions, Distinguishability of identical particles, Pauli exclusion principle, Collision of identical particles, Pauli spin operators, Commutation relations, Spin - Statistics connection, Spin matrices and eigen functions, Electron spin function, The helium atom (Para and ortho helium).

Unit IV

Relativistic Quantum Mechanics : Introduction, The Klein-Gordan (KG) equation: Free particle, Electromagnetic potential, Probability and current densities, Difficulties of KG equation, The Dirac's relativistic equation: Free particle equation, Matrices for α and β , Free particle solution (plane wave solution), Probability and current densities, Electromagnetic potential, Existence of spin angular momentum, Spin-orbit energy, Negative energy states.



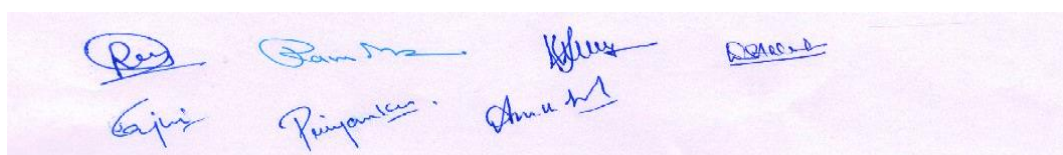
Handwritten signatures of examiners in blue ink, including names like Raj, Sam, Kishu, and others.

Text/Reference Books:

1. Schiff, L.I.(2017) Quantum Mechanics. India: Mc Graw Hill.
2. Crasemann, B. & Powell, J.L.(2015)Quantum Mechanics. India: Dover Publications.
3. Mathews, P.M. & Venkateson, K.(2017)Quantum Mechanics. India: Mc Graw Hill.
4. Ghatak, A. & Loknathan, S. (2012)Quantum Mechanics. India: Laxmi Publications
5. Zettili, N.(2009) Quantum Mechanics.New York: Wiley
6. Bransden, B.H. & Joachain(2004)Quantum Mechanics . India: Pearson Pub.
7. Gasiorowicz, S. (2003) Quantum Mechanics .New York: Wiley
8. Sakurai, J.J. & Jim Napolitano (2020) Modern Quantum Mechanics. India: Cambridge University Press.
9. Griffiths, D.J.& Schroeter, D.F.(2019)Introduction to Quantum Mechanics. India: Pearson Publications
10. Shankar , R. (2011) Principles of Quantum Mechanics. New York: Springer
11. Merzbacher, E.(.)Quantum Physics. New York: Wiley Pub.

Mapping matrix of COs, POs and PSOs of MSc/Phy/2/CC9–Quantum Mechanics-II

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3	2	2	3	2	2	2	2	2
CO2	3	3	2	2	3	2	3	2	3	3	3	3
CO3	2	2	2	3	2	2	2	2	2	2	3	3
CO4	3	3	2	2	2	2	2	2	3	2	2	3
Average	2.75	2.75	2.25	2.5	2.25	2	2.5	2	2.5	2.25	2.5	2.75



Handwritten signatures of faculty members in blue ink on a light purple background. The signatures are arranged in two rows. The top row contains four signatures, and the bottom row contains four signatures. The signatures are: Row 1: Roy, Sam, Kishu, Rajesh. Row 2: Gopi, Rajan, Anu, and another signature.

MSc/Phy/2/CC10–Physics Lab–III (General)

Credits: 4 (Practical)

Teaching per week: 8 Hrs.

Max. Marks: 100

Duration of Exam.: 4 Hrs.

Objective: Provide an exposure to instrumentation such as Multiplexer/Demultiplexer and Encoder/Decoder circuits. It will impart the skill on the experimental technique and will provide a hand on experience about G.M counter, capacitance of unknown sample and applications of op-amp.

Course Outcomes: After completion of experimental, students will be able to:

CO1: understand the meaning and importance of Stefan's constant, capacitance of capacitor and Op-Amp.

CO2: gain the knowledge about the Network theorems.

CO3: understand applications of Thomson method and various types of digital circuits.

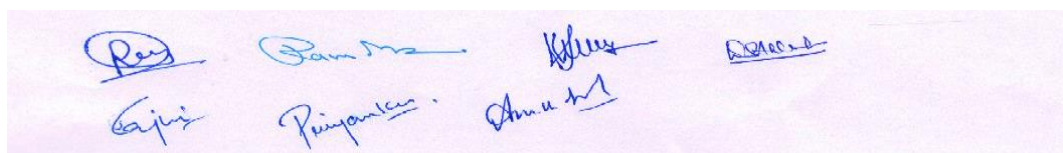
CO4: design the different types of electronic circuits using different ICs on bread board.

Experiments:

1. To determine the Stefan's constant with the help of given apparatus.
2. To estimate the efficiency of G.M counter for gamma ray source.
3. To determine capacitance of an unknown capacitor using flashing and quenching kit.
4. To study the e/m of an electron by Thomson method.
5. Experimental verification of Network theorems: Kirchoff's law, superposition, Thevenin and Norton theorem for a given circuit.
6. To measure the capacitance and permittivity of a given Sample.
7. Demonstration and realization of Multiplexer/Demultiplexer
8. To study the Encoder/Decoder circuits.
9. To study Op-Amp as logarithmic and antilogarithmic amplifiers.
10. To draw the characteristics of optoelectronics devices.
11. To study the different characteristics of pn-junction diode.
12. To design the various types of electronic circuits on bread board using different ICs.

Text/References Books:

1. Ghatak, A. & Tyagrajan. K. (2013) Introduction to Fiber Optics. India: Cambridge University press.
2. Sze, S.M. (2021) Physics of Semiconductors. New York: Wiley Interscience Pub.
3. Parker, M.A. (2005) Physics of Optoelectronics. Florida: CRC Press.
4. Kothari, D.P. (2017) Basic Electronics. India: Mc Graw Hill Edu.
5. Millman, J. & Halkias, C. C. (2017). Integrated Electronics. India: Mc Graw Hill Edu.
6. Senior, J.M. (2010) Optical Fiber Communication- Principle and Practicals . India: Pearson Edu
7. Jafer, D. (2005) Fiber Optics Communication and Technology. US: Pearson Edu.
8. Sukhija, M.S. & Nagsarkar, T.K. (2016) Circuits and Networks. Oxford : Oxford University Pres
9. Gupta, S. (2010) Electronic devices and Circuits. New Delhi: Dhanpat Rai Pub.
10. Gayakwad, R. (2015)Op-Amps and Linear Integrated Circuits. India: Pearson College.
11. Maini, A.K. (2007)Digital Electronics: Principles, Devices and Applications. New York: Wiley Pub.
12. Millman, J. & Grabel (2017) Microelectronics. India: Mc Graw Hill Edu.
13. Ryder, J.D. (2016) Electronics Fundamental & Applications. India: Prentice-Hall
14. Jain, R.P.(2009)Modern Digital Electronics. India: Mc Graw Hill Edu.



Handwritten signatures of faculty members in blue ink on a light purple background.

Mapping matrix of COs, POs and PSOs of MSc/Phy/2/CC10–Physics Lab–III (General)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	2	2	2	2	3	2	3
CO2	2	2	2	2	2	2	2	2	2	3	2	2
CO3	2	2	2	2	2	2	1	1	2	3	2	2
CO4	3	2	2	2	2	2	2	2	2	2	2	3
Average	2.5	2	2	2	2	2	1.75	1.75	2	2.75	2	2.5

MSc/Phy/2/DSC2-A– Physics Lab-IV (Electronics)

Credits: 4 (Practical)

Teaching per week: 8 Hrs.

Max. Marks: 100

Duration of Exam.: 4 Hrs.

Objective: This Lab course is designed to carry out advanced level experiments like determining the Planck's constant using LEDs, various filters, oscillators. Students will be able to gain knowledge about the gain of Chopper Amplifier applications of op-amp, FET, h-parameters of a pnp transistor in CE configuration.

Course Outcomes: After completion of experimental, students will be able to:

CO1: understand the working of various applications of transistor based apparatus.

CO2: design the circuits of various types of filters and amplifiers.

CO3: understand the different applications of Op-Amp.

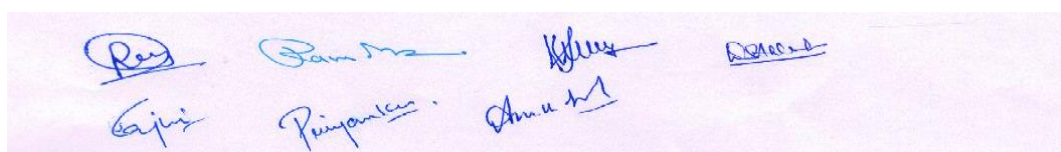
CO4: learn about the importance of oscillators based electronics devices in our daily life.

Experiments:

1. To determine the h- parameters of a pnp transistor in CE configuration.
2. To study the RF oscillator using tuned (i) Hartley's Oscillator (ii) Colpitt's Oscillator.
3. To study the low pass and high pass Active filters.
4. To study the band pass and band reject filters.
5. To design and demonstrate the passive filters.
6. To study op-amp as differentiator & integrator.
7. To study the D.C gate control characteristics and anode current characteristics of SCR.
8. To study the Chopper Amplifier.
9. To study the chopped wave forms and the leakage current compensation for FET Switch.
10. To measure the gain of Chopper Amplifier and to study the recovery of original signal
11. To determine the Planck's Constant using LEDs.
12. To study the OP-Amp as voltage follower.
13. To study the OP-Amp as comparator.

Text/References Books:


1. Jafer, D. (2005) Fiber Optics Communication and Technology. US: Pearson Pub.
2. Sze, S.M. (2021) Physics of Semiconductors. New York: Wiley Interscience Pub.
3. Parker, M.A. (2005) Physics of Optoelectronics. Florida: CRC Press.
4. Kothari, D.P. (2017) Basic Electronics. India: Mc Graw Hill Edu.
5. Ghatak, A. & Tyagrajan. K. (2013) Introduction to Fiber Optics. India: Cambridge University Press.
6. Millman, J. & Halkias, C. C. (2017). Integrated Electronics. India: Mc Graw Hill Edu.
7. Senior, J.M. (2010) Optical Fiber Communication- Principle and Practicals. India: Pearson Edu
8. Sukhija, M.S. & Nagsarkar, T.K. (2016) Circuits and Networks. Oxford : Oxford University Pres
9. Gupta, S. (2010) Electronic devices and Circuits. New Delhi: Dhanpat Rai Pub.
10. Gayakwad, R. (2015) Op-Amps and Linear Integrated Circuits. India: Pearson College.
11. Maini, A.K. (2007) Digital Electronics: Principles, Devices and Applications. New York: Wiley Pub.
12. Millman, J. & Grabel (2017) Microelectronics. India: Mc Graw Hill Edu.
13. Ryder, J.D. (2016) Electronics Fundamental & Applications. India: Prentice-Hall.
14. Jain, R.P. (2009) Modern Digital Electronics. India: Mc Graw Hill Edu.



Handwritten signatures of seven individuals in blue ink on a light purple background. The signatures are arranged in two rows. The top row contains four signatures, and the bottom row contains three. The signatures are: Row 1: [Signature 1], [Signature 2], [Signature 3], [Signature 4]; Row 2: [Signature 5], [Signature 6], [Signature 7].

Mapping matrix of COs, POs and PSOs of MSc/Phy/2/DSC2-A – Physics Lab-IV (Electronics)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	2	2	2	2	3	2	3
CO2	2	2	2	2	2	2	2	2	2	3	2	2
CO3	2	2	2	2	2	2	2	2	2	2	2	2
CO4	3	2	2	2	2	2	2	2	2	3	2	3
Average	2.5	2	2	2	2	2	1.75	2	2	2.75	2	2.5



MSc/Phy/2/DSC2-B
MOOC available on SWAYAM portal

Credits: 4

Max. Marks: 100

Ravi Pam Kishu Rohit
Gopi Priyanka Anu

MSc/Phy/2/CC11- Seminar

Credits: 1

Max. Marks: 25

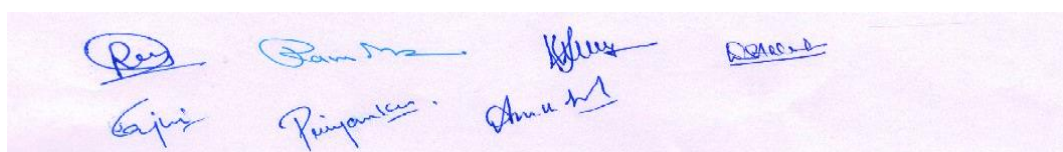
Objective: To improve oral and written communication skills. Exploring creative avenues of expression. Removing hesitation of speaking on a topic before audience. Development of critical thinking and confidence level.

Course Outcome:

CO1: Students would be able to create, revise and present ideas in spoken and written forms. Acquired listening, questioning and critical thinking skills. Demonstrate ability to defend and support ideas/claims with appropriate evidence. Students gained experience for how to organize and deliver/disseminate knowledge before audience.

Mapping matrix of COs, POs and PSOs of MSc/Phy/2/CC11-Seminar

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2.5	3	2.5	2	2.5	2.5	2.5	3	2.5	3	2.5
Average	3	2.5	3	2.5	2	2.5	2.5	2.5	3	2.5	3	2.5



Handwritten signatures of faculty members in blue ink on a light purple background. The signatures are: Raju, Samir, Kishor, Rajendra, Gauri, Pranjana, and Anu.

MSc/Phy/3/CC12– Nuclear & Particle Physics

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objectives: Students basic concepts building to develop ability for the understanding of nuclear structure along with advance level topics in nuclear and high energy physics.

Course outcomes:

CO1: Impart knowledge of introductory nuclear physics and deuteron as the smallest fundamental nucleus helps to understand strongest force of the nature.

CO2: Stability and properties of different nuclei explained by various nuclear models.

CO3: Radioactive α , β , γ -decay of nuclei by their respective quantum mechanical theories. Conservation laws and various nuclear reactions.

CO4: Elementary particles as the building blocks of matter and interacting fields. Conservation laws and quantum numbers for production and decay of particles.

Note for the Paper Setter: The question paper will consists of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Introductory concepts and nuclear forces: Basic nuclear properties: size, shape, charge distribution, spin and parity, moments and statistics, binding energy, Fundamental forces of nature, charge independence and charge symmetry of nuclear forces, Isospin, deuteron problem: ground state of deuteron, magnetic dipole and electric quadruple moments of the deuteron, square well solution for the deuteron, central and non-central forces, Meson theory of nuclear forces.

Unit-II

Nuclear models: Weizsacher's semi-empirical mass formula, liquid drop model of the nucleus, mass parabolas: prediction of stability against β -decay for members of an isobaric family. Shell model of the nucleus: evidences that led to the shell model, assumptions of the single particle shell model, spin orbit coupling of an electron bound in an atom, spin orbit coupling in nuclei for a single particle shell model. Single particle shell model for parabolic and square well potentials.

Unit-III

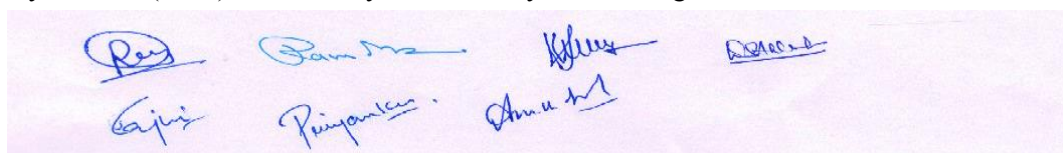
Nuclear decay and reactions: Disintegration energy of spontaneous α -decay, Alpha decay paradox- barrier penetration, Fermi's theory of β -decay, Selection rules for β -decay, Parity non-conservation in α β -decay, γ -ray emission- selection rules, Internal conversion, Types of nuclear reactions, Balance of mass and energy in nuclear reactions, Q-value equation and its solution, Basics of nuclear fission and fusion reaction.

Unit-IV

High energy physics: Classification of elementary particles, Conservation laws & symmetries: conservation of baryon and lepton numbers, concept of isospin, isospin multiplets, isospin & strangeness conservation and violation in different types of interactions, Gell–Mann–Nishijima formula, Baryons octet ($1/2^+$) and decuplet ($3/2^+$), Quark structure of hadrons and quark flavours, Introductory concept of colour quantum number and gluons, Charge conjugation (C) and parity (P) operators, C & P non-conserving property of neutrino, CPT theorem.

Text/Reference Books:

1. Perkins, D.H. (2012) Introduction to High Energy Physics: Cambridge University Press.
2. Ghosal, S. N. (1994) Nuclear Physics: S. Chand & Co.
3. Tayal, D. C. (2014) Nuclear Physics: Himalaya Publishing House.



4. Burcham, W. E. & Jobes M. (1994) Nuclear & Particle Physics: Pearson Education.
5. Patel, S.B. (2011) Nuclear Physics Wiley Eastern Ltd.
6. Joshi, Deep Chandra (2006) Introduction to Quantum Electrodynamics and Particle Physics: I.K. International.
7. Mittal, V.K., R.C. Verma and Gupta, S.C. (2011) Introduction to Nuclear and Particle Physics: PHI Learning New Delhi.

Mapping matrix of COs, POs and PSOs of MSc/Phy/3/CC12– Nuclear & Particle Physics

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	1.5	2	2	2.5	2	2	3	2.5	1.5	2.5
CO2	3	2.5	1.5	2.5	2	2	2	3	3	2.5	2	3
CO3	3	2.5	2.5	3	2.5	3	2.5	3	3	2.5	2	2.5
CO4	3	2.5	1.5	2.5	2	2.5	2.5	3	3	2	1.5	3
Average	3	2.37	1.75	2.5	2.12	2.5	2.25	2.7	3	2.37	1.75	2.75

MSc/Phy/3/CC13-A – Electrodynamics & Plasma Physics

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Course objectives: This course will introduce the students to the fourth state of matter i.e. plasma its occurrence and its applications. It will cover special theory of relativity, Minkowski space, four vectors, covariant formulation and radiations from accelerated charges.

Course outcomes: A student will:

CO1: Acquire basic knowledge of plasma, its occurrence and applications.

CO2: Acquire fair knowledge of special theory of relativity, Lorentz transformations, four vectors and Minkowski space.

CO3: A student will be able to apply the concept of four vectors in electrodynamics and will be able to interpret the relativistic effect on a charged particle in EM fields.

CO4: A student will be able to understand the radiations produced by the accelerated charges.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Plasma as fourth state of matter, plasma parameters, elements of plasma, occurrence and importance of plasma for various applications, Charged Particle Dynamics: Non-relativistic motion in uniform constant fields: Constant uniform electric field, Constant uniform magnetic field, Crossed uniform and constant electric and magnetic fields, magnetic mirror.

Unit-II

Concepts of Relativity and Relativistic Motion of Charged Particles: Postulates of special theory of relativity, Lorentz transformation in four dimensions, Structure of space time: Four vectors, Invariant interval, Minkowski diagrams, Four velocity, Four momentum, Relativistic energy and momentum, Conservation laws of energy and momentum. Relativistic motion of a charged particle: Constant magnetic field, Constant electric field, Electromagnetic field of a plane wave.

Unit-III

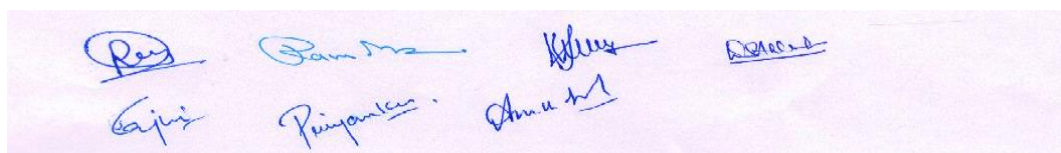
Covariant Formulation of Electrodynamics in Vacuum: Four vectors in electrodynamics, four current density, four-potential, covariant continuity equation, wave equation, covariance of Maxwell equations. Electromagnetic field tensor, Transformation of EM fields. Invariants of the EM fields. Energy momentum tensor of the EM fields and conservation laws. Lagrangian and Hamiltonian of a charged particle in an EM field.

Unit-IV

Radiation from Accelerated Charges: Lienard-Wiechert Potentials, Field of a charge in arbitrary motion and uniform motion, Radiated power from an accelerated charge at low velocities- Larmor-power formula. Radiation from a charged particle with collinear velocity and acceleration. Radiation from a charged particle in a circular orbit, Radiation from an ultra-relativistic particle, Radiation reaction. Line –width and level shift of an oscillator.

Text/Reference Books:

1. Jackson, J. D. (1998). Classical Electrodynamics. New Delhi: Wiley Eastern.
2. Griffiths, D. J. (2008). Introduction to Electrodynamics. New Delhi: Prentice Hall India.
3. Chain, F. F. (2012). Introduction to Plasma Physics. New York: Springer.
4. Bittencourt, J. A. (2004). Fundamental of Plasma Physics. New York: Springer.
5. Puri, S.P. (1990). Classical Electrodynamics. New Delhi: Narosa.



6. Marion, J. B. & Heald, M. A. (2012). Classical Electromagnetic Radiation. New York: Dover Publications.
7. Raju, G. S. N. (2004). Electrodynamics Field Theory and Transmission Lines. Noida (U.P.): Pearson Education India.

Mapping matrix of COs, POs and PSOs of MSc/Phy/3/CC13-A – Electrodynamics & Plasma Physics

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	2	1	2	1	1	1	1	1	2	1	2	1
CO2	2	1	2	1	1	1	1	1	2	1	2	1
CO3	2	2	2	1	1	1	2	1	2	1	2	1
CO4	2	2	2	2	1	1	1	1	2	1	2	1
Average	2	1.5	2	1.25	1	1	1.25	1	2	1	2	1

MSc/Phy/3/CC13-B
MOOC available on SWAYAM portal

Credits: 4

Max. Marks: 100

Ravi Pam Kishu Rohit
Gopi Priyanka Anu

MSc/Phy/3/SEC1-A – Laser & Spectroscopy-I

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: To impart knowledge in depth about lasers and laser based spectroscopy methods.

Course outcomes:

CO1: Understanding Einstein's postulates and laser field with unique properties not found in ordinary light.

CO2: Educate for optical resonators and generation of laser beam.

CO3: Understanding fundamental physical processes of the laser.

CO4: Laser spectroscopy methods applicable to characterize various materials for their potentiality indifferent technologies.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Basic postulates and laser beam characteristics: Einstein's coefficients and their relationships, Active medium, Cavity radiation and modes (one, two and three dimensions), Population inversion, Important properties of laser light: Coherence (experimental evidence for spatial and temporal coherence), Monochromaticity, Directionality, Intensity, Brightness and Ultra short duration laser pulses.

Unit-II

Laser resonators and beam parameters: Gaussian (real) laser beam and its properties, Physical description of lowest order modes, Preliminary considerations of optical resonator, Energy stored in optical resonator, Types of resonators, Stability diagram, Different types of losses in optical resonators: diffraction and transmission losses.

Unit-III

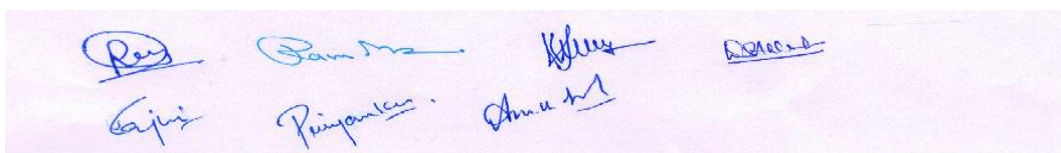
Laser linewidth, optical gain and oscillation: Origin of broadening of spectral line (Line shape function), Homogeneous (natural and collisional) and Inhomogeneous (Doppler) broadening mechanisms, Threshold condition for laser oscillation, laser oscillation and amplification in a homogeneous broadened system and gain saturation.

Unit-IV

Optical detection and spectroscopy methods: Photodiode arrays and charged coupled device (CCD) arrays, Principle, design, construction and applications of spectrometer: UV-VIS, FTIR, Raman, Brillouin, Fabry-Perot.


Text/Reference Books:

1. Verdeyen, J.T. (1995) Laser Electronics: Pearson
2. Davis C. C. (2014) Lasers and Electro-Optics: Cambridge University Press.
3. Silfswast, W. T. (1998) Lasers Fundamentals: Cambridge University Press.
4. Ahlawat, D.S. (2017) Basic Concepts of Laser Physics: Mittal Publications, New Delhi.
5. Svelto, O. (1982) Principles of Lasers: Plenum Press, New York.
6. Ghatak, A. & Tayagrajan, K. (2011) Optical Electronics: Cambridge.
7. Ghatak, A. & Tayagrajan, K. (2005) Laser Theory & Applications: Macmillan, Delhi
8. Demtroder, W. (1996) Laser Spectroscopy : Springer.
9. Demtroder, W. (2015) Laser Spectroscopy 2 : Springer.
10. Laud, B.B. (2020) Lasers and Non-linear Optics: New Age International.
11. Nagabhushana S. & Sathyanarayana N. (2010) Laser and Optical Instrumentation: I.K. International.



Mapping matrix of COs, POs and PSOs of MSc/Phy/3/SEC1-A – Laser & Spectroscopy-I

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2.5	2.5	2.5	3	2.5	3	3	2.5	2.5	2.5
CO2	3	2.5	2.5	2.5	2	2.5	2.5	3	3	2.5	2	2.5
CO3	3	2	2.5	2	2	2.5	2.5	3	3	2.5	2	2.5
CO4	3	2.5	2	2.5	2.5	2	2.5	3	3	2.5	2.5	2.5
Average	3	2.5	2.37	2.37	2.25	2.5	2.5	3	3	2.5	2.25	2.5



MSc/Phy/3/SEC1-B– Computational Physics-I

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: In theoretical physics, one deals with the situations where the analytical solutions of the equations describing the physical models are not feasible. In such situations the numerical methods are employed for solving various linear and nonlinear algebraic equations, curve fitting techniques, ordinary differential equations, evaluating differentiation, integration and various types of errors etc. These numerical methods provide a powerful tools to describe the physical phenomenon quantitatively. On completing the course, the students will be able to understand the concepts involved in various numerical methods and to apply these methods in various physical situations using computer programming in FORTRAN.

Course Outcomes: After successful completion of the course on Computational Physics-I, a student will be benefited as:

CO1: The course will equip the student with FORTRAN programming and will enable to write Fortran programs to solve numerical computationally and to be aware about various types of applications.

CO2: Students would be able to recognize the various interpolation formulae, best fit curve, nature of a specific numerical problem and would develop the acumen for choosing an appropriate numerical technique to find its solution.

CO3: Students would acquire a vision for use of computer to solve various algebraic and ordinary differential equations of first and second order and play important role in research prospective. In addition to this one can find the eigenvalues and eigenvectors of matrices using polynomial and power methods.

CO4: After completing this course, students would be able to learn the numerical differentiation and integration by various methods and can understand different type of errors, their propagation, and to minimize errors while writing a program.

Note for the Paper Setter: The question paper will consists of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit I

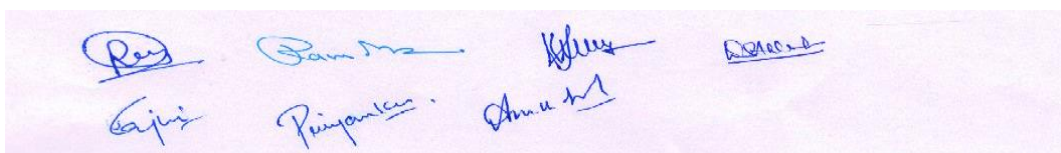
Computer Basics : Input Unit, Output Unit, Storage unit, Arithmetic logic unit, Control unit, Central processing unit , System concept, Basic idea of operating system, Assembler, Compiler, Linkers and Interpreters, Programming in Fortran-77 : Flow charts, Fortran constants and variables, Arithmetical and logical expressions, Input-output statements, DO, IF and GO TO statements, Arrays and subscripted variables, Function and subroutines. Computer programs for arranging numbers in ascending and descending order, Matrix addition and subtraction, Matrix multiplication

Unit II

Interpolation & Curve Fitting : Newton's formula for interpolation, Central difference interpolation - Gauss Central difference formula , Stirling formula, Bessel's formula, Lagrange's and Hermite's interpolation formula, Linear splines, Quadratic splines, Cubic splines, Surface fitting by cubic splines, Least square curve fitting : The principle of least square fitting, Linear regression, Polynomial regression, Fitting exponential and trigonometric functions.

Unit III

Algebraic and Ordinary Differential Equations: Bisection method, Method of false position, Newton-Raphson method, Gauss elimination method, Gauss Jordan elimination method, Jacobi method, Gauss seidel iterative method, Matrix eigenvalues and eigenvectors: Polynomial method, Power method, Taylor series method, Picard's method, Euler's method, Modified Euler's method, Second and fourth order Runge-Kutta method, Predictor and corrector method.



Handwritten signatures of faculty members in blue ink.

Unit IV

Numerical Differentiation, Integration & Errors : Taylor series method, Numerical differentiation by Newton's forward and backward difference formula, Stirling's formula, Cubic spline method, Numerical integration by Trapezoidal and Simpson's 1/3 and 3/8 rule, Gaussian integration - Gaussian quadrature, Legendre-Gauss quadrature, Numerical double integration. Errors: Round off error, Truncation error, Machine error, Random error, Propagation of errors.

Text/Reference Books:

1. Sinha, P. K., & Sinha Priti (2011). Computer Fundamentals. New Delhi : BPB Publications
2. Xavier,C. (2012). FORTRAN 77 and Numerical Methods. New Delhi : New Age International Publishers
3. Lipschutz, S., & Arthur P.O.E. (1982). Theory and problems of Programming with FORTRAN. Singapur : Schaum's outline Series Mc-Graw Hill Book Company
4. Salaria, R.S.(2011). Computer Oriented Numerical Method Delhi : Khanna Book Publishing.
5. Desai, R. C. (1989). FORTRAN Programming and Numerical Methods New Delhi: Tata McGraw Hill Education Private Limited.
6. Singh, N. (2017). Computational methods For Physics & Mathematics. New Delhi : Narosa Publishing House
7. Sastry, S. S. (2013). Introductory Methods of Numerical Analysis . New Delhi : PHI Learning Private Limited.
8. Patil, P.B. & Verma, U.P. (2013). Numerical Computational Methods New Delhi: Narosa Publishing House
9. Balagurusamy, E.(2014). Numerical Methods New Delhi: McGraw Hill. Education (India) Private Limited
10. Mittal, V.K., Verma, R.C. & Gupta, S.C (2018). Computational Physics. New Delhi: Ane Books Pvt. Ltd.

Mapping matrix of COs, POs and PSOs of MSc/Phy/3/SEC1-B– Computational Physics-I

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	3	3	3	3	3	3	3	3
CO2	2	2	2	2	2	2	3	2	2	2	2	2
CO3	3	3	2	2	2	2	3	2	3	2	2	3
CO4	3	3	2	3	3	2	3	3	3	3	3	3
Average	2.75	2.5	2.25	2.5	2.5	2.25	3	2.5	2.75	2.5	2.5	2.75

Raj
Pam
Kishu
Rajesh
Gaj
Poojanta
Anu

MSc/Phy/3/DSC3-A– Materials Science-I

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: Crystal defects, semiconductor, dielectric and magnetic materials and their properties are discussed in detail. This course will give an in depth knowledge of materials and imperfections, semiconductor, dielectric, optical and magnetic properties.

Course Outcomes:

CO1: Study of defects present in the crystal will help the students to understand how properties of material can be modulated by adding impurities to the crystals/semiconductors

CO2: Semiconductors are the basis of micro-technology. After studying this course, students will be able to understand the electronic and optical properties of semiconductors.

CO3: Students will gain ample knowledge about dielectric materials and their properties and applications.

CO4: Students will be able to differentiate between diamagnetic, paramagnetic, ferromagnetic, antiferromagnetic and ferrimagnetic (ferrite) materials and their properties.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Crystal Imperfections: Point defects: Vacancy, Substitutional, Interstitial, Schottky and Frenkel defects; Line defects/Dislocations: Slip planes and slip directions, Edge and screw dislocations, Burger's vector and circuit, Energy of dislocation; Planar defects: Grain boundaries, Tilt and twist boundaries, twin interfaces, Stacking faults in close packed structures (fcc and hcp).

Unit-II

Semiconductors: Energy bands, Direct and indirect band gap, Motion of electrons in an energy band, Holes, Effective mass and its physical interpretation, Hall effect, Cyclotron resonance, Hot electrons and Gunn effect, Optical absorption, transmission and reflection, Refractive index, Colour, Photoconductivity, Photoluminescence.

Unit-III

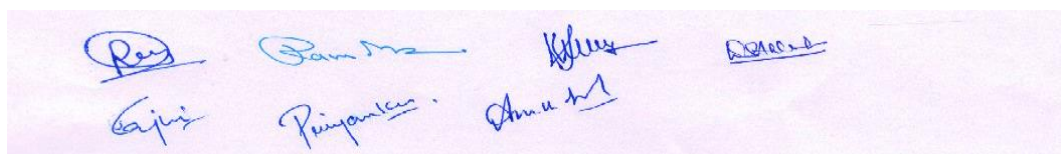
Dielectrics: Polarization, Dielectric constant, Complex permittivity, Dielectric loss factor, Local field, Clausius-Mossotti relation, Electronic, Ionic & Dipolar Polarizabilities, Classification of dielectrics, Frequency dependence of dielectric constant. Ferroelectrics: Piezo-, Pyro- and Ferro-electricity, Transition temperature, Classification and general properties of ferroelectric materials, Polarization catastrophe, Landau theory of first and second order phase transitions, Ferroelectric domains, Antiferroelectricity.

Unit-IV

Magnetism: Larmor frequency, Diamagnetism, Magnetic susceptibility of a diamagnetic material, Langevin's diamagnetism equation, Paramagnetism, Curie constant, Ferromagnetism, Curie temperature, Curie-Weiss law, Exchange interactions, Ferromagnetic domains, Antiferromagnetism, Magnetic susceptibility of an antiferromagnetic material, Ferrimagnetism and Ferrites.

Text/Reference Books:

1. Kittel, C. (2012). Introduction to Solid State Physics. New Delhi: Wiley.
2. Ashcroft, N. W. & Mermin, N. D. (2003). Solid State Physics. Boston: Cengage.
3. Ibach, H. & Luth, H. (2009). Solid State Physics: An introduction to Principles of Materials Science. New York: Springer.



4. Omar, M. A. (2002). Elements of Solid State Physics. Noida (U.P.): Pearson Education India.
5. Wahab, M. A. (2015). Solid State Physics. New Delhi: Narosa.
6. Rajnikant, (2011). Applied Solid State Physics. New Delhi: Wiley.
7. Anderson, J. C., Leaver, K. D., Alexander, J. M. & Rawlings, R. D. (1990). Materials Science. New York: Springer.

Mapping matrix of COs, POs and PSOs of MSc/Phy/3/DSC3-A– Materials Science-I

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	2	1	3	2	1	1	2	1	3	1	2	2
CO2	3	2	2	2	1	2	2	1	2	2	2	2
CO3	3	2	2	2	2	2	1	1	1	2	2	2
CO4	3	2	2	2	2	2	2	1	1	2	2	2
Average	2.75	1.75	2.25	2	1.5	1.75	1.75	1	1.75	1.75	2	2

MSc/Phy/3/DSC3-B– Advanced Electronics-I

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: The aim of this course is to train students to a host of important electronic device being used in vital practical applications. Amplifiers, the basic building block of analog electronics, is included so that students can grasp the basics of amplifiers. This course familiarizes about the microprocessor programming and their applications. Basic concepts of modulation will help the student to understand various applications in analog circuits as amplitude, frequency and phase modulations. Optoelectronic modulators are emphasized in this course so that students can easily understand the basic physics behind the concept. The overall course is designed in such a manner that the student after studying this will have strong basic knowledge to design power electronic systems and optical communication system easily.

Course Outcomes: After successful completion of the course, the students will be able to:

CO1: understand the basics of amplifiers with applications

CO2: understand the structure of microprocessor and their important applications.

CO3: realize the role and importance of different modulation and demodulation processes in modern electronic and optical communication system.

CO4: the concepts of ray and wave theory will be helpful to clear doubts about optical communication system. Students will easily understand the concept of optical fibres, their advantages, fabrication and losses.

Note for the Paper Setter: The question paper will consists of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit I

Frequency Response of Amplifier: The amplifier pass band, Midrange response with a CE cascade, The high frequency equivalent circuit: Miller effect, The high frequency response, The RC coupled CE amplifier, The frequency response of the RC amplifier, Gain frequency plots of amplifier response, Bandwidth of cascaded amplifier, Band width criteria for the transistor, Gain bandwidth product, Amplifier noise figure, Noise in amplifier.

Unit-II

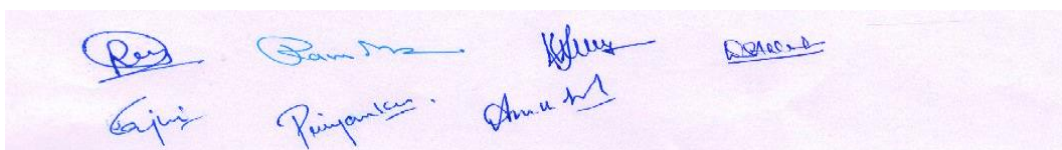
Microprocessor: Microcomputer systems and hardware, Microprocessor architecture and Microprocessor system, Instruction and timing diagram, Introduction to 8085 basic instructions (arithmetic operation, logic operation, branch operation) 16bit arithmetic instructions, Arithmetic operation related to memory, Rotate and compare instructions, Stack and subroutines, Programming of 8085 using instructions, Introduction to microcontroller.

Unit III

Modulation & Demodulation Schemes: Introduction to Modulation, Need for Analog, Pulse & Digital modulation, Amplitude Modulation: Modulation index, Frequency spectrum and power in the AM wave, Generation of AM waves, Demodulation of AM waves, Frequency modulation, Generation of FM waves, Demodulation of FM waves, Phase modulation, Pulse modulation: Pulse amplitude modulation, Pulse width modulation, Pulse position modulation, Pulse code modulation, Concept of optoelectronic modulators: electro and acousto-optic modulators.

Unit-IV

Optical Communication System: Advantages of Optical Communication, It's essential components, Ray theory of propagation: Total internal reflection, Numerical aperture, Acceptance angle/cone, Wave condition for propagation of light, Types of optical fibers: Multimode step index fibers, Multimode graded index fibers, Single mode fibers, Materials and Preparation of optical fibers: Liquid and Vapor-Phase deposition techniques, Attenuations in optical fibers: Material absorption losses, Scattering losses, Bending losses, Dispersion in fibers.



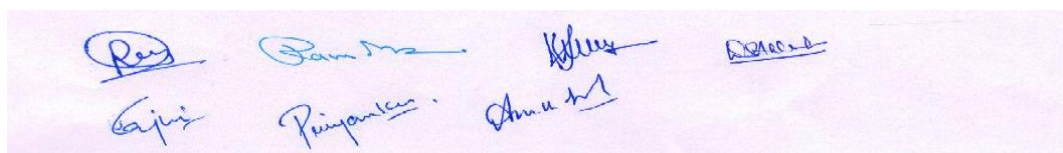
Handwritten signatures of seven individuals in blue ink on a light purple background. The signatures are arranged in two rows. The top row contains four signatures, and the bottom row contains three signatures.

Text/Reference Books:

1. Ryder, J.D. (2016) Electronics Fundamental & Applications. India: Prentice-Hall
2. Millman, J. & Halkias, C. C. (2017). Integrated Electronics. India: Mc Graw Hill
3. Millman, J. & Grabel (2017) Microelectronics. India: Mc Graw Hill Edu.
4. Keisser, G. (2017) Optical Fiber Communication. India: Mc Graw Hill Edu.
5. Ghatak, A. & Tyagrajan, K. (2017) Introduction to Fiber Optics. India: Cambridge University press.
6. Senior, J.M. (2014) Optical Fiber Communication- Principle and Practicals . India: Pearson Edu.
7. Jafer, D. (2005) Fiber Optics Communication and Technology. US: Pearson Pub.
8. Tomasi, W. (2013) Advanced Electronic Communication System. Inida: Pearson Pub.
9. Malvino, A.P. (2017) Digital Computer Electronics .India: Mc Graw Hill Edu.
10. Muller & Kamins (2003) Device Electronics for Integrated Circuit. New York: Wiley Pub.
11. S Gaonkar, S. (2013) Microprocessor Architecture Prog. & Appls. India: Pearson Pub.
12. Hall, D.V. (2017) Microprocessor and Interfacing. Europe: Mc Graw Hill Edu.
13. Jain, R.P. (2009) Modern Digital Electronics. India: Mc Graw Hill Edu.

Mapping matrix of COs, POs and PSOs MSc/Phy/3/DSC3-B– Advanced Electronics-I

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	2	2	2	2	2	2	3	2	3
CO2	2	3	2	2	1	2	2	2	2	3	2	2
CO3	2	3	2	2	2	2	2	2	2	3	2	2
CO4	3	3	2	2	2	2	2	2	2	3	2	3
Average	2.5	3	2	2	1.75	2	2	2	2	3	2	2.5



Handwritten signatures of faculty members in blue ink on a light purple background. The signatures are arranged in two rows. The top row contains four signatures, and the bottom row contains four signatures. The signatures are: Row 1: [Signature 1], [Signature 2], [Signature 3], [Signature 4]; Row 2: [Signature 5], [Signature 6], [Signature 7], [Signature 8].

MSc/Phy/3/SEC2-A – Physics Lab–V (A) (Laser & Spectroscopy-I)

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: Gain practical experience about laser beam parameters, spectroscopy methods and applications in various fields. The major objective of this course is to expose practically about laser and optics through standard set of experiments and motivate the students to apply these concepts in real physical world.

Course Outcomes: Provides practical experience about various experimental laser based techniques to characterize laser beams and material properties.

CO1: Calibration of experimental setups and evaluate physical parameters using experimental observations.

CO2: Having a basic understanding of the subject related lab concepts & contemporary issues.

CO3: Develop problem solving ability especially in optics, material science, engineering and related technology.

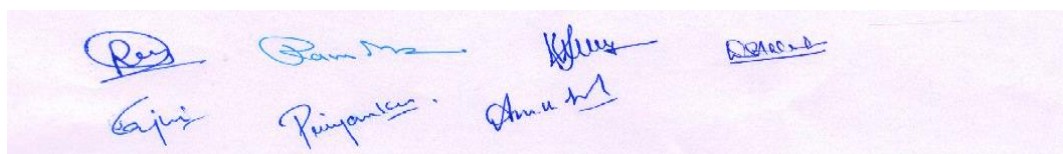
CO4: Analyze the characteristics of spectrometers, solar cells, LED's, lasers and optical fiber.

Experiments:

- To determine the wavelength of Diode/He-Ne laser
 - using transmission grating.
 - using reflection grating.
 - with a mesh.
- To determine the size of tiny particle/lycopodium powder
 - using cw laser beam.
 - using laser diffraction method.
- To determine distance of an object by triangularization method using He-Ne/diode laser.
- To determine refractive index of a given sample
 - using Abbe refractometer.
 - using He-Ne/diode laser.
- To determine the diameter of human hair/thin wire
 - using a He-Ne/diode laser.
 - using engraved metal mm-scale/vernier calipers.
- To calculate the efficiency and fill factors of a variety of solar cells.
- To study the various optoelectronic devices.
- Study of laser power attenuation in optical fibers.
- To determine wavelength of light source (mercury prominent line) using spectrometer diffraction grating.
- To study bending of light.
- To find wavelength of laser light using Michelson interferometer.
- To determine the numerical aperture and acceptance angle of a given optical fiber.
- Laser beam divergence and spot size determination.
- Brewster's angle determination.
- Determine wavelength of a monochromatic source of light or any other experiment using Fresnel biprism.

Text/Reference Books:

- Nagabhushana, S., & Sathyanarayana N. (2013). Lasers and optical instrumentation. New Delhi: I.K. International.
- Ghatak, A. (2017). Optics. New Delhi: Mc-Graw Hill Education India.
- Davis, C. C. (2014). Lasers and Electro-optics: Cambridge University Press.



4. Singh, S. P. (2017). Advanced Practical Physics vol.I. Meerut: Pragati Parkashan.
5. Singh, S. P. (2019). Advanced Practical Physics Vol.II. Meerut: Pragati Parkashan.
6. Prakash, G. (2012). Experimental Physics. New Delhi: Studium Press India.
7. Sirohi, R.S. (1991). A Course of Experiments with He -Ne Laser. New Delhi: New Age International.
8. Sirohi, R.S. (2001). Wave Optics and Its Applications. Hyderabad: Orient Longman.

Mapping matrix of COs, POs and PSOs of MSc/Phy/3/SEC2-A – Physics Lab–V(A) (Laser & Spectroscopy-I)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2.5	2	2.5	2.5	2.5	2.5	3	3	2.5	1.5	2.5
CO2	3	2.5	2	2.5	2	2.5	2.5	3	3	2.5	1.5	2.5
CO3	3	2.5	2	2.5	2.5	2.5	2.5	3	3	2.5	1.5	2.5
CO4	3	2.5	2	2.5	2.5	2.5	2.5	3	3	2.5	1.5	2.5
Average	3	2.5	2	2.5	2.37	2.5	2.5	3	3	2.5	1.5	2.5

MSc/Phy/3/SEC2-B –Physics Lab–V (B) (Computational Physics-I)

Credits: 4 (Practical)

Teaching per week: 8 Hrs.

Max. Marks: 100

Duration of Exam.: 4 Hrs.

Note: Students have to perform atleast ten programs in all.

Course Objective: There are some topics in physics whose analytical solutions are very complex and suffer accuracy. Such phenomena can be described by various mathematical models and can be solved by various numerical methods. In these situations the numerical methods for solving various linear and nonlinear algebraic equations, ordinary differential equations, evaluating differentiation, integration etc. provide a powerful tools to describe the physical phenomenon quantitatively using computer programming in FORTRAN. The course will equip the student with FORTRAN programming and will enable then to write FORTRAN programs to solve numerical computationally and to be aware about various types of errors in numerical computation.

Course Outcomes: After successful completion of the course on Computational Physics Lab -I, a student will be able to:

CO1: Understand the working of various FORTRAN statements and implement algorithms in developing FORTRAN programs.

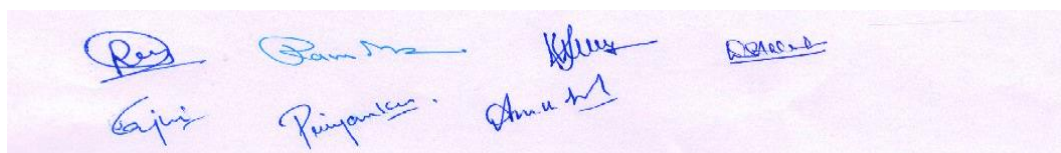
CO2: Solve numerical problems involving interpolation and/or extrapolation using different methods. Find roots of algebraic equations and ordinary differential equations using various iterative methods.

CO3: Fit a given data set with a best fit curve using principle of least square fitting and learn about fitting of different non-linear functions. Solve a set of simultaneous linear algebraic and ordinary differential equations numerically.

CO4: Find numerically the eigenvalues and eigenvectors of matrices using polynomial and power Methods, calculate the numerical differentiation and integration by various methods. Such techniques enhances computational skills in context of higher studies in Physics

List of Programs:

1. To find the root of an algebraic equation using bisection/ false position/ Newton-Raphson method correct to four decimal places.
2. Find the solutions of the system of equations using Gauss elimination/ Gauss Jordan elimination method.
3. To find the largest eigenvalue and corresponding eigenvector of a square matrix using power method.
4. Program to compute the interpolation value at a specified point from a given set of data points using Lagrange interpolation formula.
5. Program to construct the Newton interpolation polynomial from a given set of data points and then compute the interpolation value at a specified value.
6. Program to solve a system of linear equations by using Jacobi iterative method.
7. Program to solve a system of linear equations by using Gauss-Seidel iterative method.
8. Compute the interpolation value at a specified value from a given set of data points using natural cubic spline interpolation.
9. To fit a straight line/ polynomial curve from the given set of data points by the method of least squares
10. To find the numerical differentiation of a given function by Taylor series.
11. To find the numerical integration of a given function by Trapezoidal / Simpson's rule.
12. To find the numerical integration of a given function by Gaussian integration.
13. To find the numerical double integration of a given function
14. Simulation of the given first order differential equation using Euler's method / 2nd order Runge-Kutta method/4th order Runge-Kutta method.
15. Simulation of the given second order differential equation using 4th order Runge-Kutta method/ Euler's method.



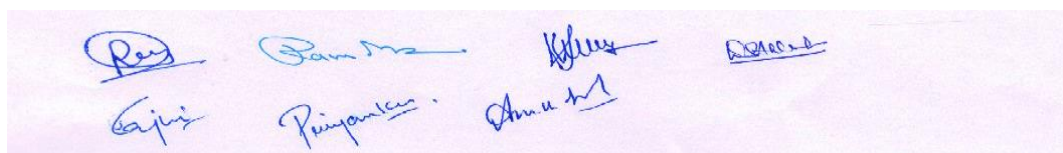
Handwritten signatures of faculty members in blue ink.

Text/Reference Books:

1. Dechaumphai, P. & Wansophark, N.(2011). Numerical Methods in Engineering. New Delhi: Alpha Science International.
2. Xavier,C.(2012). FORTRAN 77 and Numerical Methods. New Delhi : New Age International Publishers
3. Lipschutz, S., & Arthur P.O.E. (1982). Theory and problems of Programming with FORTRAN. Singapur : Schaum's outline Series Mc-Graw Hill Book Company
4. Salaria, R.S.(2011). Computer Oriented Numerical Method Delhi: Khanna Book Publishing.
5. Desai, R. C. (1989). FORTRAN Programming and Numerical Methods New Delhi: Tata McGraw Hill Education Private Limited.
6. Singh, N. (2017). Computational methods For Physics & Mathematics. New Delhi : Narosa Publishing House
7. Sastry, S. S. (2013). Introductory Methods of Numerical Analysis. New Delhi: PHI Learning Private Limited.
8. Patil, P.B. & Verma, U.P. (2013). Numerical Computational Methods New Delhi: Narosa Publishing House
9. Balagurusamy, E. (2014). Numerical Methods New Delhi: McGraw Hill. Education (India) Private Limited
10. Mittal, V.K., Verma, R.C. & Gupta, S.C (2018). Computational Physics. New Delhi: Ane Books Pvt. Ltd.

Mapping matrix of COs, POs and PSOs of MSc/Phy/3/SEC2-B –Physics Lab–V (B) (Computational Physics-I)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	3	3	3	2	3	3	3	3
CO2	3	3	2	3	2	2	3	2	3	3	2	3
CO3	3	3	2	3	2	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	3	3	2	2	3	3
Average	3	2.75	2.5	3	2.25	2.75	3	2.5	2.75	2.75	2.75	3



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MSc/Phy/3/DSC4-A–Physics Lab–VI (A) (Materials Science-I)

Credits: 4 (Practical)

Teaching per week: 8 Hrs.

Max. Marks: 100

Duration of Exam.: 4 Hrs.

Objective: The objective of this lab course is to equip the students with the practical knowledge of the devices and effects observed in solids.

Course outcomes:

CO1: By practically performing the experiments students will be able to better understand the theoretical concepts of materials.

CO2: Students will be able to critically analyse the parameters that may affect the properties of materials.

CO3: Design and develop analogue systems to study the properties of any material / system.

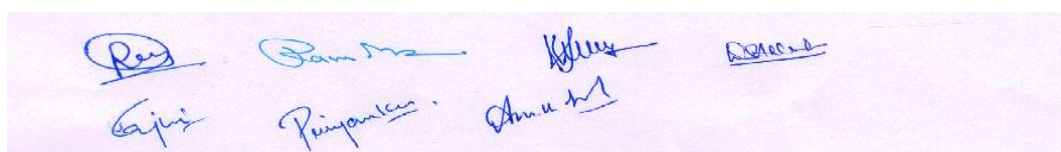
CO4: Concept building by performing the experiment and deriving relationship between variables using observed data.

Experiments:

1. To determine the Dielectric constant for given samples.
2. To study temperature variation of resistivity of a semiconductor and to obtain energy gap using Four probe method.
3. To determine the carrier concentration, mobility & Hall coefficient using Hall effect experiment.
4. To determine the area of the B-H curve, saturation of magnetization, coercivity, retentivity of a given magnetic material.
5. To determine the velocity of sound waves in a liquid using ultrasonic interferometer.
6. To determine the Fermi energy of copper.
7. Determination of compressibility of a given liquid by using ultrasonic diffraction grating method.
8. To determine the quantized energy state of an atom by using Frank –Hertz experiment.
9. Measurement of susceptibility of Ferric Chloride (FeCl_3)/ Manganese Sulphate (MnSO_4) paramagnetic solution.
10. To determine the refractive index of glass material by Brewster angle measurement.
11. To study the magnetic susceptibility of a sample using Guy balance method.
12. The aim of the experiment is to verify Newton's Law of Cooling of different materials and different liquids. To draw the cooling curve.
13. To verify the relation between thermo emf of a thermocouple and temperature difference between two hot junctions.
14. To find the thermal conductivity of a material by the two slabs guarded hot plate method. To find the thermal resistance of the sample.
15. To determine the coefficient of thermal conductivity of a bad conductor using Lee's disc apparatus.

Text/References Books:

1. Zemansky, M. W. & Dittman, R. (1981). Heat and Thermodynamics. New York: Tata Mc Graw Hill.
2. Kittel, C. & Kroemer, H. (1980). Thermal Physics. United States: W. H. Freeman.
3. Pillai, S. O. (2020). Solid State Physics. New Delhi: New Age International Pvt. Ltd. Poynting, J. H. (2015). A text Book of Physics. Palala press.
4. Kittel, C. (2012). Introduction to Solid State Physics. New Delhi: Wiley.



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5. Ashcroft, N. W. & Mermin, N. D. (2003). Solid State Physics. Boston: Cengage.
6. Ibach, H. & Luth, H. (2009). Solid State Physics: An introduction to Principles of Materials Science. New York: Springer.
7. Omar, M. A. (2002). Elements of Solid State Physics. Noida (U.P.): Pearson Education India.
8. Wahab, M. A. (2015). Solid State Physics. New Delhi: Narosa.
9. Rajnikant, (2011). Applied Solid State Physics. New Delhi: Wiley.
10. Anderson, J. C., Leaver, K. D., Alexander, J. M. & Rawlings, R. D. (1990). Materials Science. New York: Springer.

Mapping matrix of COs, POs and PSOs of MSc/Phy/3/DSC4-A–Physics Lab–VI(A) (Materials Science-I)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3	2	2	1	2	2	2	2	1
CO2	2	2	3	3	2	2	1	2	3	2	2	2
CO3	2	2	2	2	2	2	1	3	2	3	3	2
CO4	2	2	2	3	2	2	1	2	2	2	3	2
Average	2.25	2.25	2.5	2.75	2	2	1	2.25	2.25	2.25	2.5	1.75

MSc/Phy/3/DSC4-B– Physics Lab-VI (B) (Advanced Electronics-I)

Credits: 4 (Practical)

Teaching per week: 8 Hrs.

Max. Marks: 100

Duration of Exam.: 4 Hrs.

Objective: The course on Physics Lab. (Advanced Electronics-I) familiarizes the students with electronics circuits of optoelectronics devices and will provide a hand on experience on modulation, demodulation. This course will provide a knowledge of characteristics of different amplifiers and various programmes on microprocessor kit.

Course Outcomes:

After completion of experimental work, students will be able to:

CO1: understand the characteristics of optoelectronics devices and frequency response of the amplifiers.

CO2: learn the characteristics of amplifiers, along with applications in various electronic devices.

CO3: design different types of circuits related to modulation and demodulation processes.

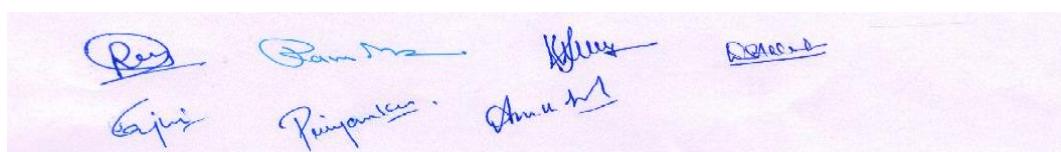
CO4: perform the microprocessor programming on microprocessor kit and applications in day to day life.

Experiments:

1. To study the characteristics of LED and Laser Diode using fiber optics trainer kit.
2. To determine the numerical aperture of monomode/multimode optical fiber.
3. Study of loss attenuation in optical fibers.
4. Study of pulse width modulation and demodulation.
5. Demonstration and realization of amplitude modulation & demodulation.
6. Demonstration and realization of frequency modulation & demodulation.
7. To study characteristics of Fiber optic photo-detectors.
8. Design and evaluation of a Laser diode linear Intensity Modulation system.
9. To plot the low and high frequency response of two stage RC coupled amplifier.
10. To study the mid frequency response of RC coupled amplifier.
11. Design and demonstrate the various programmes on 8085 microprocessor kit.
12. To design the different circuits of electronics on bread board.

Text/References Books:


1. Sukhija, M.S. & Nagsarkar, T.K. (2016) Circuits and Networks. Oxford : Oxford University Press
2. Ryder, J.D. (2016) Electronics Fundamental & Applications. India: Prentice-Hall
3. Millman, J. & Halkias, C. C. (2017). Integrated Electronics. India: Mc Graw Hill Edu.
4. Millman, J. & Grabel (2017) Microelectronics. India: Mc Graw Hill Edu.
5. Keisser, G. (2017) Optical Fiber Communication: Mc Graw Hill Edu.
6. Ghatak, A. & Tyagrajan, K. (2017) Introduction to Fiber Optics. India: Cambridge University press.
7. Senior, J.M. (2014) Optical Fiber Communication- Principle and Practicals .India: Pearson Edu.
8. Jafer, D. (2005) Fiber Optics Communication and Technology. US: Pearson Pub.
9. Tomasi, W. (2013) Advanced Electronic Communication System. India: Pearson Pub.)
10. Malvino, A.P. (2017) Digital Computer Electronics .India: Mc Graw Hill Edu.
11. Muller & Kamins (2003) Device Electronics for Integrated Circuit. New York: Wiley Pub.
12. Gaonkar, S. (2013) Microprocessor Architecture Prog. &Appls. India: Pearson Publication Pub.
13. Hall, D.V. (2017) Microprocessor and Interfacing. Europe: Mc Graw Hill Edu.
14. Jain, R.P. (2009) Modern Digital Electronics. India: Mc Graw Hill Edu.



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Mapping matrix of COs, POs and PSOs of MSc/Phy/3/DSC4-B– Physics Lab-VI (B) (Advanced Electronics-I)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	2	2	2	2	3	2	3
CO2	2	2	2	2	2	2	2	2	2	3	2	2
CO3	2	2	2	2	2	2	1	2	2	3	2	2
CO4	3	2	2	2	2	2	2	1	2	3	2	3
Average	2.5	2	2	2	2	2	1.75	1.75	2	3	2	2.5



MSc/Phy/4/CC14– Cardinal Principals of Academic Integrity and Research Ethics

Credits: 2

Lectures: 30

Duration of Exam.: 2 Hrs.

Max. Marks: 50

Final Term Exam.: 30

Internal Assessment: 20

Objective: The objective of the course is to apprise/aware the students about the Academic Integrity, Plagiarism (prevention and detection) and UGC regulations; as well as to follow Research and Publications ethics and best practices

Course outcomes: At the end of the course, the students will know:

CO1: Academic Integrity, Plagiarism (prevention and detection) and UGC regulations

CO2: Research and Publications ethics and best practices

Note for the paper setter: The question paper will consist of five questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each unit. The candidates are required to attempt two more questions selecting at least one from each unit.

Unit I

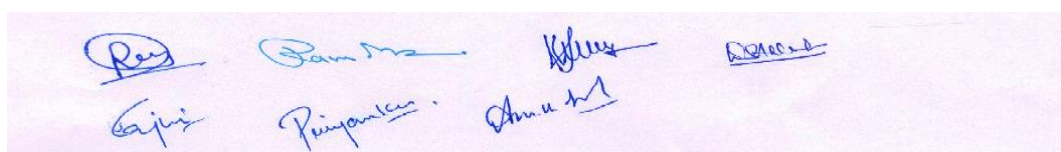
Academic Integrity: Introduction, Academic Integrity Values- Honesty and Trust, Fairness and Respect, Responsibility and Courage, Violations of Academic Integrity-types and consequences, Plagiarism - definition, Plagiarism arising out of misrepresentation-contract cheating, collusion, copying and pasting, recycling, Avoiding Plagiarism through referencing and writing skills, UGC Policy for Academic Integrity and prevention, Some Plagiarism detection tools

Unit II

Research and Publication ethics: Scientific misconducts- Falsifications, Fabrication and Plagiarism (FPP), Publication ethics- definition, introduction and importance, Best practices/standard setting initiatives and guidelines-COPE, WAME etc., Violation of publication ethics, authorship and contributor-ship, Identification of publications misconduct, complains and appeals, Conflicts of Interest, Predatory publisher and journals,

Text/References Books/Papers:


1. MacIntyre A (1967) A short History of Ethics, London
2. Chaddah P (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized. ISBN: 978-9387480865
3. National Academy of Sciences, National Academy of Engineering and Institute of Medicine (2009) On being a Scientist: A guide to Responsible Conduct in research: Third Edition. National Academics press.
4. Resnik D. B. (2011) What is ethics in research & why is it important. National Institute of Environmental Health Sciences, 1-10.
5. Beall J (2012). Predatory publishers are corrupting open access, Nature, 489 (7415), 179.
6. Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019). ISBN: 978-81-939482-1-7.
7. UGC regulations (2018) for Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutes.
8. Ulrike kestler, Academic Integrity, Kwantlen Polytechnic University.



Handwritten signatures of faculty members in blue ink on a light purple background. The signatures are arranged in two rows. The top row contains four signatures, and the bottom row contains four signatures. The signatures are: Row 1: [Signature 1], [Signature 2], [Signature 3], [Signature 4]; Row 2: [Signature 5], [Signature 6], [Signature 7], [Signature 8].

Mapping matrix of COs, POs and PSOs of MSc/Phy/4/CC14–Cardinal Principals of Academic Integrity and Research Ethics

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	1	3	2	2	1	3	2	2	2
CO2	3	2	2	1	3	2	2	1	3	2	2	2
Average	3	2	2	1	3	2	2	1	3	2	2	2



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MSc/Phy/4/CC15– Statistical Mechanics

Credits: 4
Lectures: 60
Duration of Exam.: 3 Hrs.

Max. Marks: 100
Final Term Exam.: 70
Internal Assessment: 30

Objective:

The aim of this course is to help the students to relate between statistics and thermodynamics. A student will be introduced with microcanonical, canonical and grand canonical ensembles and their partition functions and phase transitions of first and second order.

Course outcomes:

CO1: A student will be able to understand the basic concepts of thermodynamics and set a relation between thermodynamics and statistics.

CO2: A fair knowledge about the various ensembles and learn about the behavior of classical Ideal gas under various ensembles.

CO3: A student will acquire sound knowledge of M.B., B.E. and F.D. statistics and understand the phenomenon of Bose-Einstein condensation and black body radiations.

CO4: A student will have fair knowledge of Landau theory of phase transition, Ising model, Langevin theory of Brownian motion.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Review of Thermodynamic concepts/laws required for Statistical mechanics, Thermodynamic potentials, Maxwell's relations, Chemical potential, Macroscopic and Microscopic states, Postulate of equal a priori probability, Contact between Statistics and Thermodynamics, Equipartition theorem, Entropy of mixing, Gibbs paradox, Sackur-Tetrode equation.

Unit-II

Phase space, Liouville's theorem, Concept of ensemble, Ensemble average, Microcanonical, canonical and grand canonical ensembles and partition functions, Thermodynamics of Classical ideal gas in Microcanonical, Canonical and Grand canonical ensembles, Energy and density fluctuations.

Unit-III

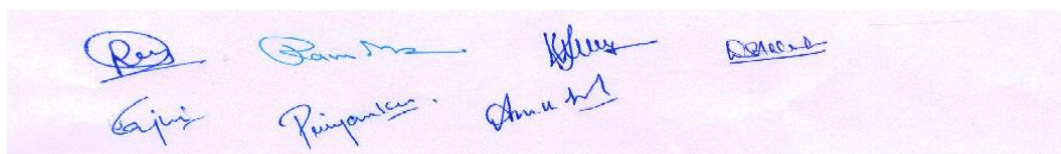
Density matrix, Statistics of indistinguishable particles, Maxwell-Boltzmann, Bose-Einstein and Fermi-Dirac statistics, Statistics of occupation numbers, Thermodynamic behavior of ideal Bose and Fermi gases, Bose-Einstein condensation, Laser cooling of atoms as an example of Bose condensate, Black body radiation and Planck's black body radiation formula.

Unit-IV

First and second order phase transitions, Critical exponents, Landau theory of phase transition, Diamagnetism, paramagnetism and ferromagnetism, Ising model, Thermodynamic fluctuations, Random walk and Brownian motion, Langevin theory of Brownian motion.

Text/Reference Books:

1. Pathria, R.K., Beale, D.(2021)Statistical Mechanics.Gurugram:Elsevier Pub.
2. Huang, K.(2008)Statistical Mechanics.India:Wiley Pub.
3. Agrawal, B.K., Eisner,M.(2020)Statistical Mechanics.India:New Age Int. Pub.
4. Sinha, S.K.(2005)Introduction to Statistical Mechanics .India:Narosa Pub. House.
5. Kittel,C.(2004)Elementary Statistical Mechanics.New York:Dover Pub. Inc.



6. Landau, L.D., Lifshitz, I.M.(2010) Statistical Physics.Oxford: Butterwoth Heinemann Pub.
7. Mandl, F. (2014): Statistical Physics, India: Wiley Pub.
8. Laud, B.B. (2020) Statistical Physics, India: New Age Int. Pvt. Ltd.
9. Kubo, R. (1990) Statistical Mechanics, Holland: Shokabo Pub. Co.
10. Reif, F.(2010) Statistics and Thermal Physics, Delhi: Sarat Books Distributors

Mapping matrix of COs, POs and PSOs of MSc/Phy/4/CC15– Statistical Mechanics

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	1	2	1	2	1	1	1	3	2	3	2
CO2	2	1	2	2	1	1	1	1	3	1	2	1
CO3	3	1	2	2	1	1	1	1	2	2	2	2
CO4	2	2	2	2	1	1	1	1	2	1	2	1
Average	2.5	1.25	2	1.75	1.25	1	1	1	2.5	1.5	2.25	1.5

MSc/Phy/4/CC16-A – Radiation Physics

Credits: 4
Lectures: 60
Duration of Exam.: 3 Hrs.

Max. Marks: 100
Final Term Exam.: 70
Internal Assessment: 30

Objective: To impart knowledge in depth about nuclear radiation, its detection, nuclear spectrometry and related aspects.

Course Outcome: Students will have understanding about:

CO1: nuclear radiation and its detection procedure, nuclear spectrometry.

CO2: applications of nuclear spectrometry.

CO3: nuclear radiation for diagnosis in medical field.

CO4: problems related to safety aspect of nuclear radiation.

***Note for the Paper Setter:** The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.*

Unit-I

Interactions of Nuclear Radiations : Origin and energy spectra, Brief discussion of interactions of gamma rays, Electron and heavy charged particles with matter, Different types of neutron sources, Interaction of neutron with matter, Neutron detectors.

Unit-II

Nuclear Radiation Detector : Gas filled detectors; Ionization chamber, Proportional counter and GM counter, Scintillation detector, semiconductor detector for X-rays, gamma rays and charged particle detection, Radiation exposure, Biological effects of radiation, radiation monitoring.

Unit-III

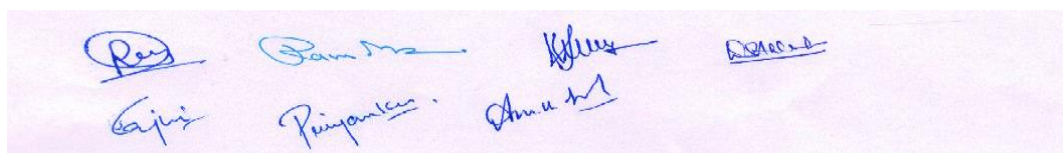
Nuclear Spectrometry and Applications: Analysis of nuclear spectrometric data, measurement of nuclear energy levels, spins, parities, moments, internal conversion coefficients, Angular correlation, perturbed angular correlation, measurement of g-factor and hyperfine-fields. Safety aspects: Radiation dose unit, Safety limits, Dose calculations, Design consideration of simple shields.

Unit-IV

Nuclear Radiation in Biology and Medicine : Dosimetric units, Radiation dosimeter, Radioactive isotopes, Gamma camera, Positron emission tomography, Introductory idea of Single photon emission computed tomography, MRI, Boron neutron capture therapy, Ion beam in cancer therapy, Diagnostic nuclear medicine, Therapeutic nuclear medicine.


Text/Reference Books

1. J. Varma, R.C. Bhandari & D.R.S. Somayajulu (2017) : Fundamentals of Nuclear Physics (CBS Publishers)
2. G. F. Knoll (1989): Radiation Detection and Measurement (John Wiley & Sons)
3. R.M. Singuru (1987): Introduction to Experimental Nuclear Physics (Wiley Eastern Publications)
4. V. Muraleedhara (2009): Nuclear Radiation Detection, Measurement and Analysis (Narosa Publishing House)
5. Santanu, Ghosh (2011): An Introduction to Engineering Aspects of Nuclear Physics (I. K. International)
6. D.C. Tayal (2014): Nuclear Physics (Himalaya Publication)



Mapping matrix of COs, POs and PSOs of MSc/Phy/4/CC16-A – Radiation Physics

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3	2.5	1.5	3
CO2	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3	2.5	1.5	3
CO3	3	2.5	2.5	2.5	3	2.5	2.5	3	3	2.5	1.5	3
CO4	3	2.5	2.5	2.5	3	3	2.5	3	3	2.5	1.5	3
Average	3	2.5	2.5	2.5	2.75	2.62	2.5	2.7	3	3	1.5	3



MSc/Phy/4/CC16-B
MOOC available on SWAYAM portal

Credits: 4

Max. Marks: 100

Ravi Pam Kishu Rohit
Gopi Priyanka Anu

MSc/Phy/4/SEC3-A– Laser & Spectroscopy-II

Credits: 4
Lectures: 60
Duration of Exam.: 3 Hrs.

Max. Marks: 100
Final Term Exam.: 70
Internal Assessment: 30

Objectives: In depth understanding about various laser systems in detail and effective use of lasers for different applications in any field along with motivation for advancement.

Course outcomes:

CO1: understanding about optical amplifier, oscillation, power output, and efficiency and laser rate equations.

CO2: working principle of some important laser systems with their pumping methods, energy levels and applications.

CO3: techniques to generate short and ultra-short high power laser pulses.

CO4: high sensitivity laser spectroscopy methods to explore optical properties of various materials for their potential use in technology.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Important processes and laser rate equations: Amplification in an inhomogeneously broadened system, Spatial and spectral hole burning, Lamb dip, Multi-mode oscillation, Efficiency of laser and its various factors, Rate equations for three and four level laser systems, Variation of laser power around threshold, Optimum output coupling.

Unit-II

Pumping and various laser systems: Optical and electrical pumping, Conversion efficiency, Excitation mechanisms, structure and important applications of laser systems: He-Ne, Ruby, Nd:YAG, Dye, CO₂, Argon Ion, Double Hetrostructure Semiconductor, Semiconductor Quantum well.

Unit-III

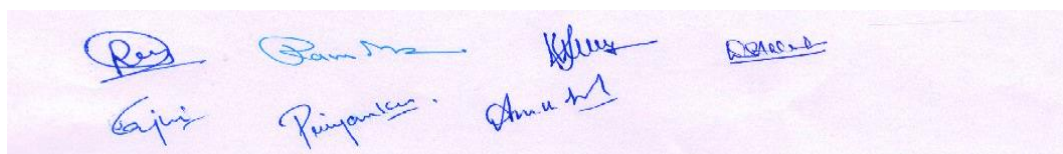
Short and ultrashort laser pulse generation: Index ellipsoid, Pockel and Kerr effects, Pockel effect in KDP crystal: Longitudinal and elementary idea of its transverse configuration, Magneto-optic and Acousto-optic effect, Theory of Q-switched laser, Theory of mode locking (active & passive), Methods for Q-switching and mode locking via passive and active methods in particular electro-optic effect.

Unit-IV

Non-linear optics and laser spectroscopy: Introduction to Maxwell's equations in a non-linear optical medium. Second harmonic generation, Principle, design, construction and applications: Laser Raman spectroscopy, High sensitivity methods of absorption spectroscopy; Frequency modulation and interactivity absorption (using single and multimode operation), Fluorescence excitation spectroscopy, Laser induced fluorescence.

Text/Reference Books:

1. Verdeyen, J.T. (1995) Laser Electronics: Pearson
2. Davis C. C. (2014) Lasers and Electro-Optics: Cambridge University Press.
3. Silfwest, W. T. (1998) Lasers Fundamentals: Cambridge University Press.
4. Ahlawat, D.S. (2017) Basic Concepts of Laser Physics: Mittal Publications, New Delhi.
5. Svelto, O. (1982) Principles of Lasers: Plenum Press, New York.



6. Ghatak, A. & Tayagrajan, K. (2011) Optical Electronics: Cambridge.
7. Ghatak, A. & Tayagrajan, K. (2005) Laser Theory & Applications: Macmillan, Delhi
8. Demtroder, W. (1996) Laser Spectroscopy : Springer.
9. Demtroder, W. (2015) Laser Spectroscopy 2 : Springer.
10. Laud, B.B. (2020) Lasers and Non-linear Optics: New Age International.
11. Nagabhushana S. & Sathyanarayana N. (2010) Laser and Optical Instrumentation: I.K. International.

Mapping matrix of COs, POs and PSOs of MSc/Phy/4/SEC3-A– Laser & Spectroscopy-II

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2.5	2.5	2.5	2	2.5	2.5	2.5	3	2.5	1.5	3
CO2	3	2.5	2.5	2.5	2.5	2.5	2.5	3	3	2.5	1.5	3
CO3	3	3	2.5	2.5	2.5	2.5	2.5	3	3	2.5	1.5	3
CO4	3	3	2.5	2.5	2.5	2.5	2.5	3	3	2.5	1.5	3
Average	3	2.75	2.5	2.5	2.37	2.5	2.5	2.87	3	2.5	1.5	3

MSc/Phy/4/SEC3-B– Computational Physics-II

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objectives: As the physical models are represented by various algebraic, differential and integral equations which can be simulated on the computer by using FORTRAN and MATLAB etc. Using these software tools, the students would be familiar to various chaotic and nonlinear phenomena. Using the random numbers one can get the basic knowledge of radioactive phenomena and calculation of various integrals using Monte-Carlo method. Further by learning the fundamental concepts involved in simulation techniques of simple physical phenomena like electronic circuits, quantum mechanics, wave and optics etc. one can get the flavour of simulation in Physics. After doing this the students will be empowered to learn the MATLAB and will be able to understand the complex physical processes using computer.

Course Outcomes: After successful completion of the course on Computational Physics-II, a student will be benefited as:

CO1: Students would be able to understand framework of linear and nonlinear systems, logistic systems and chaotic behaviour of given system and their simulation.

CO2: Students would be familiar with the framework of random numbers and their generation along with their applications in various physical phenomena. In addition to this student will know about the Monte Carlo method and its application to calculate the complex integrals, Brownian motion and noise distribution in Physics.

CO3: Students would be able to learn the simulation of various physical problems in wave, optics and electronic circuits.

CO4: Students would learn the simulation of various problems in quantum mechanics, the necessary basic knowledge of MATLAB. This will equip them to do theoretical analysis if their research work is experimental too.

***Note for the Paper Setter:** The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.*

Unit I

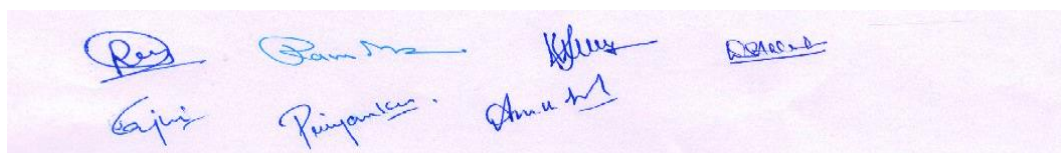
Nonlinear Dynamics and Chaos: Linear and nonlinear systems, Simple pendulum, Runge Kutta solution to the equation of motion. Potential energy of a dynamical system, Portrait in Phase space: Undamped motion, Damped motion, Driven and damped oscillator, Chaotic dynamics: Attractor, Chaotic attractor, Poincare section, Bifurcation and periodic doubling, Lyapunov exponents, Mapping, Logistic system, Chaotic pendulum,

Unit II

Random Phenomena Simulation: Randomness, Random number generators, Mid-square methods, Multiplicative congruential method, Mixed multiplicative congruential methods, Modeling radioactive decay, Hit and miss Monte-Carlo methods, Monte-Carlo calculation of π , Monte-Carlo integration, Monte-Carlo multidimensional integrations, Brownian Motion, Noise : Mean and standard deviation of a noise distribution, Form of Gaussian noise distribution.

Unit III

Simulation in Physics-I: Simulation of plane wave, Superposition of harmonic waves, Interference, Diffraction and Polarization of light, Simulation of charging and discharging of a capacitor, Current in LR, LC and LCR circuit, Computer model for LR, and LCR circuit driven by sine function, Motion of charged particle in uniform electric field, Motion of charged particle in uniform magnetic field.



Handwritten signatures in blue ink on a light purple background. The signatures are arranged in two rows. The top row contains four signatures: 'Ravi', 'Sanku', 'Kishu', and 'Rohit'. The bottom row contains four signatures: 'Ajay', 'Pranjana', 'Anu', and 'Rohit'.

Unit IV

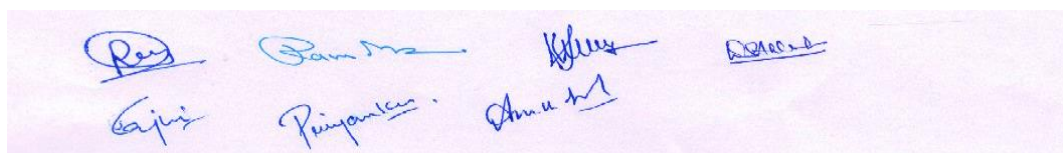
Simulation in Physics-II & MATLAB: Computer model for Rutherford scattering experiment, Simulation of electron orbit in H_2 ion, Formation of wave packet, Numerical solution of radial Schrodinger equation for Hydrogen atom using fourth order Runge-Kutta method (eigen value is given). Basics of MATLAB, Creating and working with arrays of numbers, creating and printing plots, Interacting computations: Matrices and vectors, Matrices and array operations, Built in functions, Saving and loading data, Programming in MATLAB: Script files, Function files and Language specific features.

Text/Reference Books:

1. Jong, M L De (1991). Introduction to Computation Physics. Boston : Addison – Wesley
2. Alligood K. T., Sauer Tim D. & Yorke, J. A (1997) : Chaos an introduction to dynamical systems. New Delhi :Springer
3. Verma, R. C., Ahluwalia P.K. & Sharma K.C. (2014). Computational Physics an Introduction. New Delhi :New Age International Publisher
4. Patil, P.B. & Verma, U.P. (2013). Numerical Computational Methods New Delhi : Narosa Publishing House
5. Singh, N.(2017). Computational methods For Physics & Mathematics. New Delhi : Narosa Publishing House
6. Pratap, R.(2010). Getting Started with MATLAB. New Delhi: Oxford University Press.
7. William J Palm III (2013). A concise introduction to MATLAB. New Delhi: McGraw Hill Education (India) Private Limited.
8. Koonin, S. E. (1998). Computational Physics. Boston : Addison –Wesley
9. Mackewon, P.K. & Newman, D.J. (1987). Computational Techniques in Physics (Bristol, England :A. Hilger)
10. Alder, B., Rotengen M. & Fernbach S. (1964): Methods in Computational Physics. New York: Academic Press

Mapping matrix of COs, POs and PSOs of MSc/Phy/4/SEC3-B– Computational Physics-II

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	3	2	2	3	3	3	2	2	2
CO2	3	3	2	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	2	2	2	2	3	2	2	2	3	3
Average	2.75	2.75	2.25	2.75	2.5	2.5	3	2.75	2.75	2.5	2.75	2.75



Handwritten signatures of faculty members in blue ink on a light purple background. The signatures are: Raju, Pankaj, Kishor, Anand, and Rajendra.

MSc/Phy/4/DSC5-A – Materials Science-II

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: The objective of this course is to provide the students basic knowledge of nanoscale materials and their properties. This course will also discuss the synthesis and characterization techniques of nanomaterials.

Course Outcomes:

CO1: The learner will be able to understand how on reducing the size of a material to nanoscale, can change the electronic energy states and hence properties of the materials.

CO2: The learner will have an in depth knowledge of the characteristic change in properties of nanomaterials.

CO3: The learner will have ample knowledge about the various top down and bottom up techniques for synthesis of nanomaterials.

CO4: Learner will be aware about the various characterization tools for nanomaterials.

***Note for the Paper Setter:** The question paper will consists of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.*

Unit-I

Free electron theory (qualitative idea) and its features, Idea of band structure, Metals, insulators and semiconductors, Density of state in bands, Variation of density of states with energy, Variation of density of state and band gap with size of crystal, Quantum size effect. Electron confinement in infinitely deep square well, confinement in one and two dimensional well.

Unit-II

Idea of quantum well structure, Quantum wires and dots. Determination of particle size, Increase in width of XRD peaks of nano-particles, Shift in photoluminescence peaks, Variation in Raman spectra of nano-materials, Carbon Nanotubes: Synthesis, Structure, Properties and Applications.

Unit-III

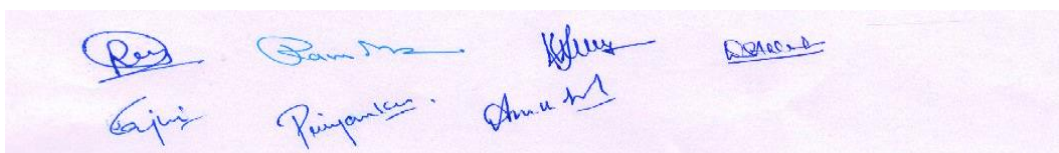
Different methods of preparation of Nanostructured materials: Brief idea of some important physical and chemical techniques, Ball milling, Pulsed laser deposition, Ion beam deposition, Chemical vapour deposition, Sol-gel, Co-precipitation, Electro-chemical deposition.

Unit-IV

Different methods of characterization of Nanostructured materials: X-ray diffraction (XRD), Scanning electron microscopy (SEM), Transmission electron microscopy (TEM), Fourier transform infrared spectroscopy (FTIR), Raman spectroscopy, UV-visible spectroscopy, Photoluminescence (PL).

Text/Reference Books:

1. Cao, G. (2011). Nanostructures & Nanomaterials. Singapore: World scientific publishing.
2. Poole, C. P. & Qwens, F. J. (2003). Introduction to Nanotechnology. New Delhi: Wiley-Interscience.
3. Hornyak, G. L., Tibbals, H. F., Dutta, J. & Moore, J. H. (2008) Introduction to Nanoscience & Nanotechnology. Florida: CRC press.



4. Wilson, M. et al. (2002). Nanotechnology. Florida: CRC press.
5. Jain, K. P. (1997). Physics of Semiconductor Nano Structures. New Delhi: Narosa.
6. Davies, J. H. (1997). Physics of Low Dimensional Semiconductors. Cambridge: Cambridge University Press.
7. Fendler, J. H. (Ed.). (1998). Nanoparticles and Nanostructured Films. Germany: Wiley-VCH.
8. Harrison, P. (2016). Quantum Wells, Wires and Dots. New York: Wiley.
9. Edelstein, A. S. & Cammarata, R. C. (1998). Nanomaterials: Synthesis, Properties & Applications. Florida: CRC press.
10. Dresselhaus, M. S., Dresselhaus, G. & Avoris, Ph. (2001). CNT- Carbon Nanotubes: Synthesis, Structure, Properties and Applications. New York: Springer.

Mapping matrix of COs, POs and PSOs of MSc/Phy/4/DSC5-A–Materials Science-II

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	1	2	2	1	1	2	1	2	2
CO2	2	3	3	2	2	2	1	1	2	2	2	2
CO3	3	2	2	2	2	1	2	2	2	2	2	1
CO4	3	3	3	2	2	1	2	2	2	2	2	2
Average	2.5	2.5	2.5	1.75	2	1.5	1.5	1.5	2	1.75	2	1.75

MSc/Phy/4/DSC5-B – Advanced Electronics-II

Credits: 4
Lectures: 60
Duration of Exam.: 3 Hrs.

Max. Marks: 100
Final Term Exam.: 70
Internal Assessment: 30

Objectives:

The aim of this course is to train the students to a host of important power amplifiers, wave generators, regulators, analog and digital systems, optical fiber Types & Fabrication Techniques, optoelectronic devices. The students will also be exposed to various optoelectronic devices like LED, diode lasers, Photodiode, Photo transistor, solar cells and optical amplifiers. The course is designed in a manner such that the student after studying this will have strong basic knowledge to design optoelectronic systems and integrated system easily.

Course Outcomes: After successful completion of the course, the students will be able to:

CO1: understand the basics of power amplifiers, oscillators, regulators and realize the process of A/D conversion and D/A conversion.

CO2: Students would be able to appreciate the functioning and applications of various optoelectronic devices.

CO3: Students get familiarity with optical sources specially LEDs and Laser diodes used in modern optical communication system. This kind of specialization is expected to provide a larger scope for research in the various related and interdisciplinary areas.

CO4: They will realize the principle and working of optical receivers, solar cells, photodiodes, and optical amplifiers and also able to analyze the functioning of various communication devices that will be helpful to seek their carrier in advance research.

***Note for the Paper Setter:** The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.*

Unit I

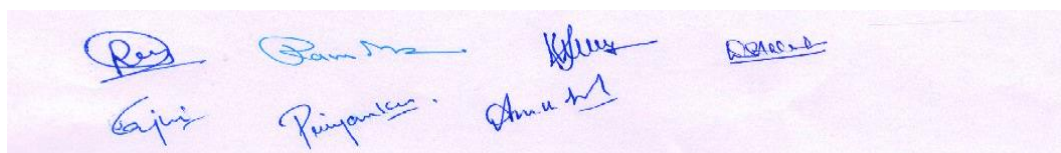
Power amplifiers and regulators: Power amplifiers: class A large signal amplifiers, second and higher order harmonic distortions, the transformer coupled power amplifier, impedance matching, efficiency, push-pull amplifiers, class-B amplifiers, complementary stages, cross over distortions, class-AB operation, heat sinks, derating curve; Electronic voltage regulators: basic introduction, Zener diode voltage regulator, single BJT shunt and series regulators, feedback regulators, current regulator, overload and short circuit protection circuits.

Unit II

Analog and Digital Systems: Active filters, First order low pass and high pass butterworth filter, Second order low pass and high pass butterworth filter, Oscillators- Oscillator principle, frequency stability, Phase shift and Wein bridge oscillator, Square wave and triangular wave generator, Comparators, Digital to analog (D/A) converter- ladder and weighted resistor types, Analog to digital(A/D) converter-counter type, Successive approximation, Parallel comparator.

Unit-III

Optoelectronic Devices-I: Requirements of optical sources in communication, Concept of homojunction and heterojunctions structures, LEDs: Principle and working, Concept of Surface emitting and Edge emitting LEDs, Superluminescent LEDs, LED Characteristics: Optical output power and efficiency, Optical Source limitations, Diode Lasers: Principle and Characteristics, Gain guided and Index guided, Distributed feedback Lasers & VCSEL lasers.



A collection of handwritten signatures in blue ink, likely belonging to the examiners or faculty members involved in the course. The signatures are arranged in two rows on a light-colored background.

Unit-IV

Optoelectronic Devices-II: Basic need of optical detectors, Block diagram of receiver unit, General Parameters, Types of Photo detectors, P-N, P-i-N and Avalanche photodiodes, Noises in detectors, Photo transistors, Solar cell: working & characteristics, Optical Amplifiers: Principle, system applications, Optical gain in Fabry Perot and Travelling wave amplifiers, Rare earth doped fiber amplifiers (EDFA), concept of Raman fiber amplifiers.

Text/References Books:

1. Millman, J. & Halkias, C. C. (2017). Integrated Electronics. India: Mc Graw Hill Edu.
2. Senior, J.M.(2010)Optical Fiber Communication- Principle and Practicals.India: Pearson Edu.
3. Jafer, D.(2005)Fiber Optics Communication and Technology. US: Pearson Pub.
4. Sze, S.M. (2021) Physics of Semiconductors.New York : Wiley Interscience Pub.
5. Kothari, D.P.(2017) Basic Electronics.India: Mc Graw Hill Edu.
6. Millman, J. & Grabel (2017) Microelectronics. India: Mc Graw Hill Edu.
7. Ryder, J.D. (2016) Electronics Fundamental & Applications. India: Prentice-Hall
8. Jain, R.P.(2009)Modern Digital Electronics. India: Mc Graw Hill Edu.
9. Keisser, G.(2017)Optical Fiber Communication.: Mc Graw Hill Edu.
10. Ghatak, A. & Tyagrajan, K. (2017) Introduction to Fiber Optics. India: Cambridge University press.
11. Parker, M.A. (2005) Physics of Optoelectronics. Florida: CRC Press.
12. Maini, A.K. (2007) Digital Electronics: Principles, Devices and Applications .New York: Wiley Pub.
13. Saggio, G.(2014)Principial of Analog Electronics. Florida: CRC Press.

Mapping matrix of COs, POs and PSOs of MSc/Phy/4/DSC5-B – Advanced Electronics-II

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	3	2	2	2	2	3	2	3
CO2	2	3	2	2	3	2	2	2	2	3	2	2
CO3	2	2	2	2	3	1	2	2	2	3	2	2
CO4	3	3	2	2	3	2	2	2	2	3	2	3
Average	2.5	2.5	2	2	3	1.75	2	2	2	3	2	2.5

Ravi
Sanku
Kishor
Rajesh
Ajay
Pranjana
Anu

MSc/Phy/4/SEC4-A–Physics Lab–VII (A) (Laser & Spectroscopy-II)

Credits: 4 (Practical)

Teaching per week: 8 Hrs.

Max. Marks: 100

Duration of Exam.: 4 Hrs.

Objectives: To create in-depth knowledge of various laser applications by experimentation. The primary objective is to educate the students about various laser based applications. Experiencing in experimental field on optical parameters and correlate with the corresponding theory.

Course outcomes: Provides practical experience about various experimental laser based techniques to characterize laser beams and material properties.

CO1: Evaluate practically by measurement skills using experimental observations.

CO2: Design and develop various types of experimental systems to analyse properties of materials and optical fibers.

CO3: Adopting group working competency by working in teams on various experimental methods.

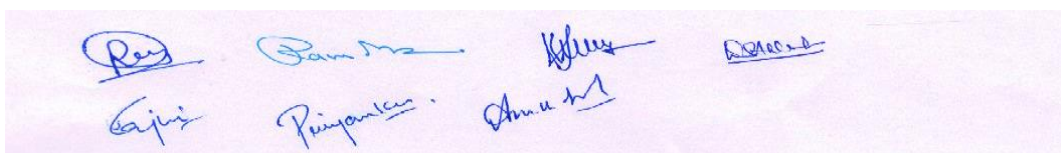
CO4: Having experimentation, computational approach, and innovative skills & data analysis ability.

Experiments:

1. To determine laser beam parameters using a He- Ne/diode laser source.
2. To study the characteristics of LED and Laser diode.
3. To study characteristics of Fiber optic photo-detectors.
4. Design and evaluation of a
 - (a) Laser diode linear Intensity Modulation system.
 - (b) Laser diode digital IM system.
5. To study various characteristics of PN junction: Reverse saturation current and material constant. To determine the temperature coefficient of junction and energy band gap.
6. Determination of applied magnetic field and resonance frequency (or g-factor) of a given sample using Electron spin resonance spectrometer.
7. To determine the value of forbidden energy gap of a diode and LED.
8. To verify inverse square law of radiation using photodiode.
9. Demonstration of spatial coherence of laser beam/ wavelength of sodium or white light using diffraction grating.
10. To study the Fraunhofer diffraction pattern
 - (a) of a circular aperture and to measure its diameter.
 - (b) and determine the slit width.
11. To determine the refractive index of a thin glass plate using Michelson interferometer.
12. Verification of Malus law / polarization characteristics of laser light.
13. Find out the value of Planck's constant
 - (a) using LED.
 - (b) using Photocell.
14. With the help of Abbe refractometer,
 - (a) determine the polarizability of the given liquid samples at a given temperature.
 - (b) study the variation of refractive index with
 - (i) temperature of the liquid sample
 - (ii) wavelength of the light source
15. To determine the thickness of a thin glass transparent plate using Michelsons interferometer.

Text/Reference Books:

1. Nagabhushana, S., & Sathyanarayana N. (2013). Lasers and optical instrumentation. New Delhi: I.K. International.
2. Ghatak, A. (2017). Optics. New Delhi: Mc-Graw Hill Education India.
3. Davis, C. C. (2014). Lasers and Electro-optics. Cambridge: Cambridge University Press.
4. Singh, S. P. (2017). Advanced Practical Physics Vol.I. Meerut: Pragati Parkashan.
5. Singh, S. P. (2019). Advanced Practical Physics Vol.II. Meerut: Pragati Parkashan.



6. Prakash, G. (2012). Experimental Physics. New Delhi: Studium Press India.
7. Sirohi, R.S. (1991). A Course of Experiments with He -Ne Laser. New Delhi: New Age International.
8. Sirohi, R.S. (2001). Wave Optics and Its Applications. Hyderabad: Orient Longman.

Mapping matrix of COs, POs and PSOs of MSc/Phy/4/SEC4-A–Physics Lab–VII (A) (Laser & Spectroscopy-II)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	3	1.5	2.5	2.5	2.5	2.5	3	3	2.5	1.5	2.5
CO2	3	2.5	1.5	2.5	2.5	2.5	2.5	3	3	2.5	1.5	2.5
CO3	3	2.5	1.5	2.5	2	2.5	2.5	3	3	2.5	1.5	2.5
CO4	3	2.5	1.5	2.5	2.5	2.5	2.5	3	3	2.5	1.5	2.5
Average	3	2.62	1.5	2.5	2.37	2.5	2.5	3	3	2.5	1.5	2.5

MSc/Phy/4/SEC4-B-Physics Lab-VII (B) (Computational Physics-II)

Credits: 4 (Practical)

Teaching per week: 8 Hrs.

Max. Marks: 100

Duration of Exam.: 4 Hrs.

Note: Students have to perform ten programs in all.

Course Objective: In theoretical physics, one comes across very frequently with the physical models which are represented by various algebraic, differential and integral equations which can be simulated on the computer to get the better results by using FORTRAN and MATLAB etc. Further by learning the fundamental concepts involved in simulation techniques of simple physical phenomena like wave, optics, simple electronic circuits and quantum mechanics etc, one can get the flavour of simulation in Physics. After doing this the students will be empowered to understand the simulation of complex physical processes using computer.

Course Outcomes: After successful completion of the course on Computational Physics Lab-II, a student will be benefited as:

CO1: The course will equip the student with FORTRAN programming and will enable then to write FORTRAN programs to solve numerical computationally. The Students would be able to simulate the various physical problems and acquire a vision for use of computer in research prospective.

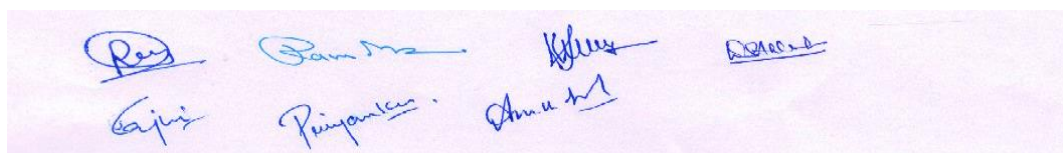
CO2: Students would be able to recognize the nature of a specific numerical problem and would develop the acumen for choosing an appropriate numerical technique to find its solution.

CO3: Students would develop understanding for programming concepts and would learn the Practical implementation of programming languages for carrying simulation of various physical problems in wave, optics, electronic circuits, quantum mechanics and others.

CO4: Students would gain the necessary basic knowledge of application of MATLAB for problem solving which is useful in research also.

Experiments:

1. Simulation of charging/ discharging of a capacitor.
2. To study the growth of current in LR/ LCR circuit.
3. To study the LR, and LCR circuit driven by sine function.
4. To study the motion of one-dimensional simple harmonic/anharmonic/damped harmonic oscillator.
5. To study the Monte-Carlo simulation of nuclear radioactivity
6. Simulation of the logistic equation $x_{n+1} = ax_n(1 - x_n)$ with the help of logistic map.
7. Program Monte -Carlo evaluation of integrals.
8. Program on random number generation by using mid square/ mixed multiplicative congruential method.
9. Program on Monte-Carlo simulation of Brownian motion.
10. Program to compute formation of wave packet.
11. Program on numerical solution of radial Schrodinger equation for Hydrogen atom using 4th order Runge-Kutta method
12. Program to compute interference pattern using Young's double slit experiment.
13. Program to compute diffraction pattern from single slit.
14. Program to compute polarization of light.
15. Programs on various numerical methods by MATLAB.



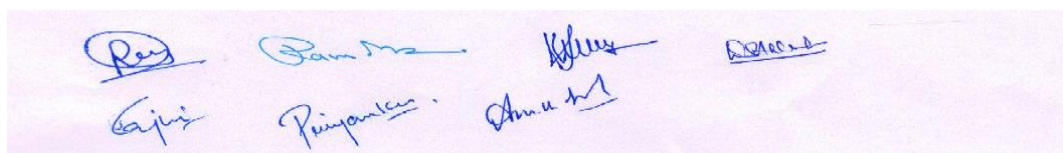
Handwritten signatures of faculty members in blue ink.

Text/Reference Books:

1. Jong, M L De (1991). Introduction to Computation Physics. Boston : Addison – Wesley
2. Alligood, K. T., Sauer, Tim D. & Yorke, J. A (1997) : Chaos an introduction to dynamical systems. New Delhi :Springer
3. Verma, R. C., Ahluwalia, P.K. & Sharma, K.C. (2014). Computational Physics an Introduction. New Delhi: New Age International Publisher.
4. Patil, P.B. & Verma, U.P. (2013). Numerical Computational Methods New Delhi: Narosa Publishing House
5. Singh, N. (2017). Computational methods For Physics & Mathematics. New Delhi: Narosa Publishing House
6. Pratap, R. (2010). Getting Started with MATLAB. New Delhi: Oxford University Press.
7. William, J. Palm III (2013). A concise introduction to MATLAB. New Delhi: McGraw Hill Education (India) Private Limited
8. Koonin, S. E. (1998). Computational Physics. Boston : Addison –Wesley
9. Mackewon, P.K. & Newman, D.J. (1987). Computational Techniques in Physics (Bristol, England :A. Hilger)
10. Alder, B., Rotengen M. & Fernbach S. (1964): Methods in Computational Physics. New York: Academic Press

Mapping matrix of COs, POs and PSOs MSc/Phy/4/SEC4-B–Physics Lab–VII (B) (Computational Physics-II)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	3	3	3	3	2	3	3	3	3
CO2	3	3	2	3	2	2	3	2	3	3	2	3
CO3	3	3	2	3	2	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	3	3	2	2	3	3
Average	3	2.75	2.5	3	2.25	2.75	3	2.5	2.75	2.75	2.75	3



Handwritten signatures of faculty members in blue ink on a light purple background. The signatures are arranged in two rows. The top row contains four signatures, and the bottom row contains four signatures. The signatures are: Row 1: [Signature 1], [Signature 2], [Signature 3], [Signature 4]; Row 2: [Signature 5], [Signature 6], [Signature 7], [Signature 8].

MSc/Phy/4/DSC6-A–Physics Lab–VIII (A) (Materials Science-II)

Credits: 4 (Practical)

Teaching per week: 8 Hrs.

Max. Marks: 100

Duration of Exam.: 4 Hrs.

Objective: This course will provide by and large knowledge of various solid state devices/ effects and their properties.

Course Outcomes:

CO1: This course will equip the students with the practical knowledge of the devices and effects observed in solids.

CO2: Students will be able to understand how analogue to a system are designed to study a system.

CO3: Students will be able to better understand the properties of solids like heat capacity, refractive index, magnetic susceptibility etc.

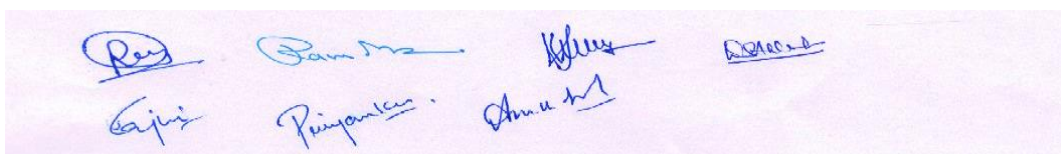
CO4: Performing the experiments like photoelectric effects and black body radiation will help the students to understand the dual nature of matter.

Experiments:

1. To determine the Boltzmann's constant of a given sample using the Silicon diode.
2. To study of heat capacity of a given Sample
3. To determine the magnetic susceptibility using Quinck tube apparatus
4. To study the dispersion relation for monoatomic and diatomic lattices.
5. To determine the Curie temperature for a given Ferrite sample.
6. To determine the ionization potential of Argon with the help of Frank-Hertz tube.
7. To study the variation of magnetic field due to circular coil using Stewart and Gee's apparatus.
8. To determine the magneto-resistance of a semiconductor.
9. To determine the refractive index of a given liquid using Abbe's refractometer.
10. To understand the phenomenon Photoelectric effect as a whole.
 - a. To draw kinetic energy of photoelectrons as a function of frequency of incident radiation.
 - b. To determine the Planck's constant from kinetic energy versus frequency graph.
 - c. To plot a graph connecting photocurrent and applied potential.
 - d. To determine the stopping potential from the photocurrent versus applied potential graph.
11. To compare heat transfer between different material surface and the black body surface by radiation.
12. To find the emissivity of different material surface.
13. To study the phase change of a substance from liquid to solid by plotting the cooling curve.
14. To determine the melting point of the given substance and to find out the transition time.
15. To experimentally demonstrate the concept of Millikan's oil drop experiment. To find the terminal velocity of the drop. To find the charge on a drop.

Text/Reference Books:


1. Pillai, S. O. (2020). Solid State Physics. New Delhi: New Age International Pvt. Ltd.
2. Beiser, A. (2017). Concept of Modern Physics. New Delhi: Mc Graw Hill Education.
3. Siegel, R., Menguc, M. P. & Howell, J. (2015). Thermal Radiation and heat transfer. Florida: CRC press.
4. Kraftmakher, Y. (2014). Experiments and Demonstrations in Physics. Oxford: Oxford University Press.
5. Kittel, C. (2012). Introduction to Solid State Physics. New Delhi: Wiley.
6. Ashcroft, N. W. & Mermin, N. D. (2003). Solid State Physics. Boston: Cengage.



7. Ibach, H. & Luth, H. (2009). Solid State Physics: An introduction to Principles of Materials Science. New York: Springer.
8. Omar, M. A. (2002). Elements of Solid State Physics. Noida (U.P.): Pearson Education India.
9. Wahab, M. A. (2015). Solid State Physics. New Delhi: Narosa.
10. Rajnikant, (2011). Applied Solid State Physics. New Delhi: Wiley.
11. Anderson, J. C., Leaver, K. D., Alexander, J. M. & Rawlings, R. D. (1990). Materials Science. New York: Springer.

Mapping matrix of COs, POs and PSOs MSc/Phy/4/DSC6-A–Physics Lab–VIII (A) (Materials Science-II)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	2	1	2	2	2	2	1	1	3	2	2	1
CO2	2	3	3	3	2	2	1	2	3	3	3	2
CO3	3	2	3	2	2	2	1	2	2	2	2	1
CO4	3	3	3	3	2	2	1	2	2	2	2	2
Average	2.5	2.25	2.75	2.5	2	2	1	1.75	2.5	2.25	2.25	1.5



MSc/Phy/4/DSC6-B-Physics Lab-VIII (B) (Advanced Electronics-II)

Credits: 4 (Practical)
Teaching per week: 8 Hrs.

Max. Marks: 100
Duration of Exam.: 4 Hrs.

Objectives: The course on Physics Lab. (Advanced Electronics-II) deals with characteristics of optoelectronics devices, analog to digital (A/D), digital to analog (D/A) converters, also this course will provide knowledge of applications of zener diode, transistors.

Course Outcomes: After completion of experimental work, students will be able

CO1: to acquire a vision for use of amplifiers and optoelectronics devices in daily life.

CO2: to exposed about the working and importance analog to digital (A/D) & digital to analog (D/A) converters in our daily life.

CO3: to understand the characteristics of zener diode and applications.

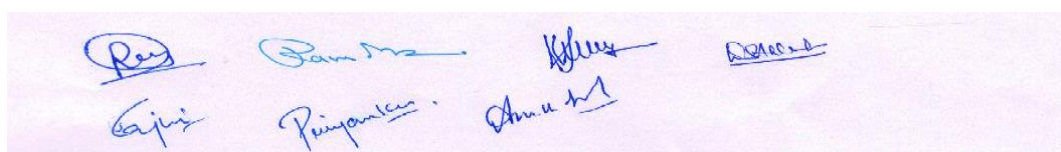
CO4: to design the various electronics circuits using different ICs.

Experiments:

1. To study the Class A and Class B Amplifiers.
2. To determine the response of silicon solar cell and the effect of prolonged irradiation and to calculate the efficiency and fill factors of a variety of solar cells.
3. To determine the value of forbidden energy gap of a diode and LED
4. To study the Polarization of light.
5. To study the characteristics of LED and Laser diode.
6. To Design and evaluation of a Laser diode digital IM system.
7. To learn the Laser free space communication.
8. To study various characteristics of pn junction:
 - a) Reverse saturation current and material constant.
 - b) To determine the temperature coefficient of junction and energy band gap.
9. To study the analog to digital (A/D) & digital to analog (D/A) converters.
10. To study the Wein bridge oscillator.
11. To study the square wave generator.
12. To determine the Planck's constant using Photocell.
13. To study the different optoelectronic devices.
14. To study the regulated power supply using (a) zener diode only (b) Zener diode with series transistor (c) Zener diode with shunt transistor.
15. To study the triangular wave generator.

Text/References Books:

1. Jafer, D. (2005) Fiber Optics Communication and Technology. US: Pearson Pub.
2. Millman, J. & Halkias, C. C. (2017). Integrated Electronics. India: Mc Graw Hill Edu.
3. Senior, J.M. (2010) Optical Fiber Communication- Principle and Practicals. India: Pearson Edu.
4. Sze, S.M. (2021) Physics of Semiconductors. New York: Wiley Interscience Pub.
5. Kothari, D.P. (2017) Basic Electronics. India: Mc Graw Hill Edu.
6. Millman, J. & Grabel (2017) Microelectronics. India: Mc Graw Hill Edu.
7. Ryder, J.D. (2016) Electronics Fundamental & Applications. India: Prentice-Hall.
8. Jain, R.P. (2009) Modern Digital Electronics. India: Mc Graw Hill Edu.
9. Keisser, G. (2017) Optical Fiber Communication: Mc Graw Hill Edu.
10. Ghatak, A. & Tyagrajan, K. (2017) Introduction to Fiber Optics. India: Cambridge University press.



Handwritten signatures in blue ink on a light purple background. The signatures are arranged in two rows. The top row contains four signatures, and the bottom row contains four signatures. The signatures are: Row 1: [Signature 1], [Signature 2], [Signature 3], [Signature 4]; Row 2: [Signature 5], [Signature 6], [Signature 7], [Signature 8].

11. Parker, M.A. (2005) Physics of Optoelectronics. Florida: CRC Press.
12. Maini, A.K. (2007) Digital Electronics: Principles, Devices and Applications .New York: Wiley Pub.
13. Saggio, G.(2014)Principial of Analog Electronics. Florida: CRC Press
14. Sukhija, M.S. & Nagsarkar, T.K. (2016) Circuits and Networks. Oxford: Oxford University Press.

Mapping matrix of COs, POs and PSOs of MSc/Phy/4/DSC6-B–Physics Lab-VIII (B) (Advanced Electronics-II)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	2	2	2	2	3	2	3
CO2	2	2	2	2	2	2	2	2	2	3	2	3
CO3	2	2	2	2	2	2	2	2	2	3	2	3
CO4	3	2	2	2	2	2	2	1	2	3	2	3
Average	2.5	2	2	2	2	2	2	1.75	2	3	2	3

MSc/Phy/4/CC14– Seminar

Credits: 1

Max. Marks: 25

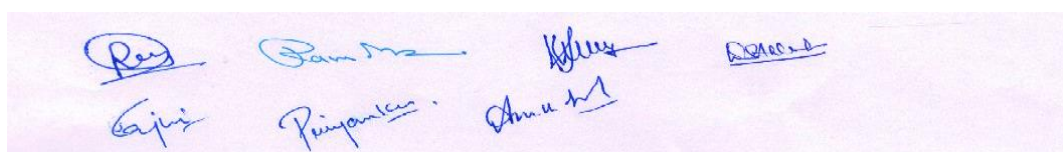
Objective: To improve oral and written communication skills. Exploring creative avenues of expression. Removing hesitation of speaking on a topic before audience. Development of critical thinking and confidence level.

Course Outcome:

CO1: Students would be able to create, revise and present ideas in spoken and written forms. Acquired listening, questioning and critical thinking skills. Demonstrate ability to defend and support ideas/claims with appropriate evidence. Students gained experience for how to organize and deliver/disseminate knowledge before audience.

Mapping matrix of COs, POs and PSOs of MSc/Phy/4/CC14– Seminar

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2.5	3	2.5	2	2.5	2.5	2.5	3	2.5	3	2.5
Average	3	2.5	3	2.5	2	2.5	2.5	2.5	3	2.5	3	2.5



Handwritten signatures of faculty members in blue ink on a light purple background. The signatures are arranged in two rows. The top row contains four signatures, and the bottom row contains four signatures. The signatures are: Row 1: [Signature 1], [Signature 2], [Signature 3], [Signature 4]; Row 2: [Signature 5], [Signature 6], [Signature 7], [Signature 8].

MSc/Phy/9/OEC1–Environmental Physics

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objective: To enhance the understanding of energy and its types, thermal aspects of energy generation and radioactivity in detail. This course will provide knowledge about nuclear reactors.

Course outcomes:

CO1: Structure and thermodynamics of the atmosphere develop a keen interest in weather formation and its change (or science behind the nature).

CO2: Students get aware of climate change issues.

CO3: Gain a basic knowledge of energy transformations and heat engines.

OC4: Understand how electricity can be generated from nuclear reactions. Become aware of biological effects of nuclear radiations.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Structure and thermodynamics of the atmosphere; Troposphere, Stratosphere, Mesosphere, Ionosphere, Exosphere; Temperature, pressure and density variations with height; Composition of air.

Unit-II

Radiation, radiant energy; Solar and Terrestrial radiation; Rayleigh and Mie scattering; Ultraviolet (UV) radiation, Infrared (IR) radiation, Ozone depletion problem; Green House Effect, Global warming.

Unit-III

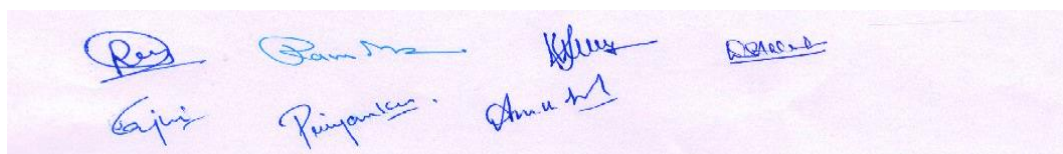
Concept of heat, energy and work, Energy transformation, Thermodynamic state of a system, Laws of thermodynamics, Isothermal and adiabatic processes; Carnot cycle, Heat pump and refrigerator; Entropy and disorder.

Unit-IV

Radioactivity; Characteristics of radioactive radiations; Radioisotopes and application; Units of radiation dose, Biological effects of nuclear radiation and safety measure; Age of earth-radioactive dating; Nuclear energy, Nuclear reactor.

Text/Reference Books:

1. Lutgens, F. K., & Tarbuck, E. J. (2018). The atmosphere: An Introduction to Meteorology. London: Pearson.
2. Salby, M.L. (1996). Fundamentals of Atmospheric Physics. Cambridge: Academic Press.
3. Santra, S. C. (2011). Environmental Science. New Delhi: New Central Book Agency.
4. Boeker, E., & Groundelle R. V. (2011). Environmental Physics. New Jersey: John Wiley.
5. Manna, A. (2011). Heat and Thermodynamics. Noida: Pearson Education India.
6. Ghoshal, S. N. (1994). Nuclear Physics. New Delhi: Sultan Chand & Sons.



Mapping matrix of COs, POs and PSOs MSc/Phy/9/OEC1–Environmental Physics

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	2	3	3	2	3	3	2	3	3
CO2	2	2	2	1	3	2	3	2	2	2	2	3
CO3	3	2	2	2	2	2	3	2	3	2	3	2
CO4	2	2	3	1	3	3	2	3	3	2	3	3
Average	2.5	2	2.5	1.5	2.75	2.5	2.5	2.5	2.75	2	2.75	2.75

MSc/Phy/9/OEC2– Physics in Everyday Life

Credits: 4

Lectures: 60

Duration of Exam.: 3 Hrs.

Max. Marks: 100

Final Term Exam.: 70

Internal Assessment: 30

Objectives: This course intends to provide knowledge of physics behind every day phenomena. In addition, it will also enhance knowledge on solar energy.

Course outcomes: After successful completion of the course, the students will be able to:

CO1: Will learn about the role of science in human body.

CO2: Get aware of renewable sources of energy.

CO3: Knowledge about laser applications gets enhanced.

CO4: Understand how physics is used in sports.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Unit-I

Human Body: The eyes as an optical instrument, Vision defects; Rayleigh criterion and resolving power of an eye; Sound waves and hearing, Sound intensity, Decibel scale, Physics of the Cardiovascular system (The Cardiac Cycle).

Unit-II

Energy: Solar energy; solar cells, its types and applications; Wind energy, Hydroelectric energy, Ocean energy, Geothermal energy, Biomass energy.

Unit-III

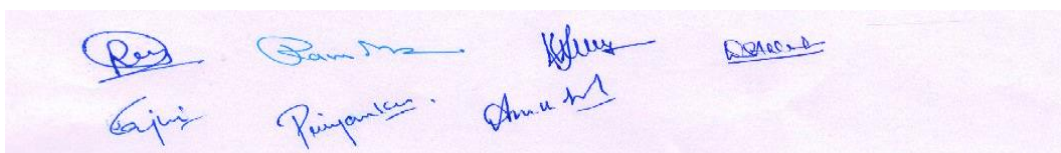
Lasers: Laser (characteristics and working) and types of lasers (He-Ne, semiconductor, Nd:YAG), Industry applications (cutting, drilling, welding and material processing), Medical applications.

Unit-IV

Sports and Technology: The sweet spot, Dynamics of rotating objects, Running, Jumping and pole vaulting, Motion of a spinning ball; Global Positioning System, Satellite Communication, Weather forecasting, Magnetic Resonance Imaging (MRI).

Text/Reference Books:

1. Spathopoulos, V. M. (2013). An Introduction to the Physics of sports. California: Createspace Independent Publication.
2. Singh, P., & Wani, T. A. (2011). Basic Environmental Physics. Meerut: Pragati Prakashan.
3. Santra, S. C. (2011). Environmental Science. New Delhi: New Central Book Agency.
4. Boeker, E., & Groundelle R. V. (2011). Environmental Physics. New Jersey: John Wiley.
5. Silfvast, W. T. (2008). Laser fundamentals. Cambridge: Cambridge University Press.
6. Herman, I. P. (1994). Physics of the Human Body. New York: Springer.



Handwritten signatures of seven individuals in blue ink on a light purple background.

Mapping matrix of COs, POs and PSOs of MSc/Phy/9/OEC2– Physics in Everyday Life

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	2	2	2	3	2	2	3	2
CO2	2	2	3	1	3	3	3	2	2	2	3	2
CO3	2	2	2	1	3	2	3	3	3	2	2	2
CO4	3	2	3	2	2	3	3	2	2	2	3	2
Average	2.5	2	2.5	1.5	2.5	2.5	2.75	2.5	2.25	2	2.75	2

**Learning Outcomes based Curriculum Framework
(LOCF)**

For

**M.Sc. (Mathematics)
Postgraduate Programme**

Syllabus



**Department of Mathematics
Chaudhary Devi Lal University
Sirsa-125055
2021**

1

(Prof. Aseem Miglani)
Chairperson

(Prof. Neelam Kumari)
Associate Prof.

(Mr. Sandeep Kumar)
Assistant Prof.

MSc/Maths/9/OEC1
Basic Mathematics

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course objectives: The main objective of this course is to familiarize the students with some of the topics from matrices and determinants, characteristic equation of a matrix, differentiation of standard functions and their use, integration as an inverse of differentiation and its use in finding area under a curve.

Course Outcomes: This course will enable the students to:

1. Understand types of matrices, algebra of matrices, properties of determinants, adjoint of a matrix, inverse of a matrix, solution of a system of linear equations.
2. Know about the Characteristic equation, rank, eigen vectors and eigen values of a matrix.
3. Know about the differentiation of standard functions, derivatives of higher order and their use in finding maxima and minima of certain functions.
4. Find Integration as an inverse of differentiation summation, area under a curve, indefinite integrals of standard form, reduction formulae.

Unit: 1.

Matrices & Determinants: Definition of a matrix. Types of matrices; Algebra of matrices; Properties of determinants; Calculation of values of determinants upto third order, Adjoint of a matrix, elementary row or column operations; Finding inverse of a matrix through adjoint and elementary row or column operations. Solution of a system of linear equations.

Unit: 2.

Matrices & Determinants: Characteristic equation, Statement of Cayley Hamilton theorem. Rank of matrix, Eigen vectors and eigen values using matrices, Diagonalization, similarity transformation of matrices.


Unit: 3.

Differential Calculus: Differentiation of standard functions, theorems relating to the derivative of the sum, difference, product and quotient of functions, derivative of trigonometric functions, inverse trigonometric functions, logarithmic functions and exponential functions, differentiation of implicit functions, logarithmic differentiation, derivative of functions, expressed in parametric form, derivatives of higher order. (Only formulae to be given and applications to be emphasized). Maxima and minima.

2



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Chairperson



(Prof. Neelam Kumari)
Associate Prof.



(Mr. Sandeep Kumar)
Assistant Prof.

Unit: 4.**Integral Calculus:**

Integration as an inverse of differentiation summation, area under a curve, indefinite integrals of standard form, method of substitution, method of partial fractions, integration by parts, definite integrals, reduction formulae, definite integrals of limit of sum and geometrical interpretation.

Recommended Books:

1. Seymour Lipschutz; Linear Algebra, Schaum's series publications.
2. Santi Narayan; Differential Calculus.
3. Santi Narayan; Integral Calculus.



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Chairperson



(Prof. Neelam Kumari)
Associate Prof.



(Mr. Sandeep Kumar)
Assistant Prof.

MSc/Maths/9/OEC2
Descriptive Statistics

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course objectives: This course has been designed to introduce basic knowledge of various types of data collection, classification. The students will come to learn measures of central tendency i.e. mean, median, mode, geometric mean, harmonic mean. Learn about measures of dispersion i.e. mean deviation, standard deviation. Learn about moments, correlation, types of correlation, scatter diagram, Karl Pearson Coefficient of correlation and rank correlation coefficient.

Course outcomes: This course will enable the students to:

1. Learn about collection, classification and tabulation of data, histogram, frequency polygon, frequency curve and ogives.
2. Know about measure of central tendency: mean, median, mode etc.
3. Learn about measures of dispersion: absolute and relative measures of range, quartile deviation, mean deviation, standard deviation, coefficient of variation.
4. Know about moments, skewness and kurtosis, moments about mean and about any point, effect of change of origin and scale on moments, correlation of bivariate data.

Unit: 1.

Introduction of Statistics, Basic knowledge of various types of data, Collection, classification and tabulation of data. Presentation of data: histograms, frequency polygon, frequency curve and ogives. Stem- and- Leaf and Box plots.

Unit: 2.

Measures of Central Tendency and Location: Mean, median, mode, geometric mean, harmonic mean, partition values.

Unit: 3.

Measures of Dispersion: Absolute and relative measures of range, quartile deviation, mean deviation, standard deviation (σ), coefficient of variation.

Unit: 4


Moments, Skewness and Kurtosis: Moments about mean and about any point and derivation of their relationships, effect of change of origin and scale on moments.

Correlation for Bivariate Data: concept and types of correlation, scatter diagram, Karl Pearson Coefficient (r) of correlation and rank correlation coefficient.

4



(Prof. Aseem Miglani)
Chairperson



(Prof. Neelam Kumari)
Associate Prof.



(Mr. Sandeep Kumar)
Assistant Prof.

Recommended Books:

1. A.M. Goon, M.K. Gupta, and B. Das Gupta: Fundamentals of Statistics, Vol-I.
2. S. Bernstein and R. Bernstein, Elements of Statistics, Schaum's outline series, McGraw-Hill.
3. S.C. Gupta and V.K. Kapoor, Fundamentals of Mathematical Statistics, Sultan Chand & Sons, 2002.



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Chairperson



(Prof. Neelam Kumari)
Associate Prof.



(Mr. Sandeep Kumar)
Assistant Prof.

MSc/Maths/1/CC1
Abstract Algebra

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The study of a group theory is the one of the main ideas of Mathematics. The aim of this course is to study Sylow theory and some of its applications to groups of smaller orders. An attempt has been made in this course to strike a balance between the different branches of group theory, abelian groups, nilpotent groups, finite groups, infinite groups. A study of modules, submodules, quotient modules, finitely generated modules etc. is also promised in this course. Endomorphism ring of a finite direct sum of modules, Finitely generated modules, Uniform modules, Primary modules.

Course Outcomes: This course will enable the students to:

1. Understand concepts of automorphism, normalize, conjugacy classes, class equation normal series, composition series, alternating group A_n , simplicity of A_n for $n \geq 5$, Sylow's theorems and its applications.
2. Learn about commutator subgroup, three subgroup lemma of P.Hall, nilpotent groups, solvable groups, upper and lower central series.
3. Understand concepts of modules, submodules, finitely generated modules, direct sum, R-homomorphism, quotient module, completely reducible modules, free modules, representation of linear mappings and their ranks.
4. Learn about Ascending and descending chains, Noetherian modules and Noetherian rings, Hilbert Basis Theorem, Wedderburn-Artin theorem

Unit: 1.

Automorphisms and Inner automorphisms of a group G . The groups $\text{Aut}(G)$ and $\text{Inn}(G)$. Automorphism group of a cyclic group. Normalizer and Centralizer of a non-empty subset of a group G . Conjugate elements and conjugacy classes. Class equation of a finite group G and its applications. Derived group (or a commutator subgroup) of a group G . Perfect groups. Simplicity of the Alternating group A_n ($n \geq 5$). Zassenhaus's Lemma. Normal and Composition series of a group G . Schreier's refinement theorem. Jordan Holder theorem. Composition series of groups of order p^n and of finite Abelian groups. Cauchy theorem for finite groups. p -groups. Finite Abelian groups. Sylow p -subgroups. Sylow's 1st, 2nd and 3rd theorems. Application of Sylow theorems.

Unit: 2.

Commutator identities. Commutator subgroups. Three subgroups Lemma of P.Hall. Central series of a group G . Nilpotent groups. Centre of a nilpotent group. Subgroups and factor

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Chairperson



(Prof. Neelam Kumari)
Associate Prof.



(Mr. Sandeep Kumar)
Assistant Prof.

subgroups of nilpotent groups. Finite nilpotent groups. Upper and lower central series of a group G and their properties. Subgroups of finitely generated nilpotent groups. Sylow-subgroups of nilpotent groups. Solvable groups. Derived series of a group G .

Unit: 3.

Modules, submodules and quotient modules. Module generated by a non-empty subset of an R -module. Finitely generated modules and cyclic modules. Idempotents. Homomorphism of R -modules. Fundamental theorem of homomorphism of R -modules. Direct sum of modules. Endomorphism Simple modules and completely reducible modules (semi-simple modules). Finitely generated free modules. Rank of a finitely generated free module. Submodules of free modules of finite rank over a PID.

Unit: 4.

Noetherian modules and Noetherian rings. Endomorphism ring of a finite direct sum of modules. Finitely generated modules. Ascending and descending chains of sub modules of an R -module. Ascending and Descending chain conditions (A.C.C. and D.C.C.). Finitely co-generated modules. Artinian modules and Artinian rings. Nilpotent elements of a ring R . Nil and nilpotent ideals. Hilbert Basis Theorem. Structure theorem for finite Boolean rings. Wedderburn-Artin theorem and its consequences. Uniform modules. Primary modules.

Recommended Books:

1. I.S. Luthar and I.B.S. Passi; Algebra Vol. 1 Groups (Narosa publication House)
2. P.B. Bhattacharya S.R. Jain and S.R. Nagpal; Basic Abstract Algebra
3. I.D. Macdonald; Theory of Groups
4. Vivek Sahai and Vikas Bist; Algebra (Narosa publication House)
5. Surjit Singh and Quazi Zameeruddin; Modern Algebra (Vikas Publishing House 1990)
6. W.R. Scott; Group Theory.



(Prof. Aseem Miglani)
Chairperson



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Associate Prof.



(Mr. Sandeep Kumar)
Assistant Prof.

MSc/Maths/1/CC2
Real Analysis

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The course aims to familiarize the learner with Riemann-Stieltjes integral, uniform convergence of sequences and series of functions, functions of several variables and power series.

Course Outcomes: This course will enable the students to:

1. Understand the concept of Riemann-Stieltjes integral along its properties; integration of vector-valued functions with application to rectifiable curves.
2. To know about convergence of sequences and series of functions; construct a continuous nowhere-differentiable function; demonstrate understanding of the statement and proof of Weierstrass approximation theorem.
3. Understand differentiability and continuity of functions of several variables and their relation to partial derivatives; apply the knowledge to prove inverse function theorem and implicit function theorem.
4. Learn about the concepts of power Series, Abel's theorem, Tauber's theorem, Taylor's theorem, exponential & logarithmic functions, trigonometric functions, Fourier series and Gamma function.

Unit: 1.

Definition and existence of Riemann Stieltjes integral, properties of the integral, reduction of Riemann Stieltjes integral to ordinary Riemann integral, change of variable, integration and differentiation, the fundamental theorem of integral calculus, integration by parts, first and second mean value theorems for Riemann Stieltjes integrals, integration of vector-valued functions, rectifiable curves. (Scope as in Chapter 6 of 'Principles of Mathematical Analysis' by Walter Rudin, Third Edition).

Unit: 2.

Sequences and series of functions : Pointwise and uniform convergence of sequences of functions, Cauchy criterion for uniform convergence, Dini's theorem, uniform convergence and continuity, uniform convergence and Riemann integration, uniform convergence and differentiation, convergence and uniform convergence of series of functions, Weierstrass M-test, integration and differentiation of series of functions, existence of a continuous nowhere differentiable function, the Weierstrass approximation theorem, the Arzela theorem on equicontinuous families. (Scope as in Chapter 9 (except 9.6) & Chapter 10 (except 10.3) of 'Methods of Real Analysis' by R.R. Goldberg).



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Assistant Prof.

Unit: 3.

Functions of several variables : Linear transformations, the space of linear transformations on \mathbb{R}^n to \mathbb{R}^m as a metric space, open sets, continuity, derivative in an open subset of \mathbb{R}^n , chain rule, partial derivatives, directional derivatives, continuously differentiable mappings, necessary and sufficient conditions for a mapping to be continuously differentiable, contractions, the contraction principle (fixed point theorem), the inverse function theorem, the implicit function theorem. (Scope as in relevant portions of Chapter 9 of 'Principles of Mathematical Analysis' by Walter Rudin, Third Edition)

Unit: 4.

Power Series : Uniqueness theorem for power series, Abel's and Tauber's theorem, Taylor's theorem, Exponential & Logarithmic functions, trigonometric functions, Fourier series, Gamma function (Scope as in relevant portions of Chapter 8 of 'Principles of Mathematical Analysis' by Walter Rudin, Third Edition).

Recommended Books:

1. Walter Rudin; Principles of Mathematical Analysis (3rd Edition) McGraw-Hill, 1976.
2. R.R. Goldberg; Methods of Real Analysis, Oxford and IHB Publishing Company, New Delhi, 1970
3. T.M. Apostol, Mathematical Analysis, Narosa Publishing House, New Delhi, 1985
4. Gabriel Klambauer, Mathematical Analysis, Marcel Dekkar, Inc. New York, 1975
5. A.J. White, Real Analysis; an introduction. Addison-Wesley Publishing Co., Inc., 1968
6. E. Hewitt and K. Stromberg. Real and Abstract Analysis, Berlin, Springer, 1969
7. Serge Lang, Analysis I & II, Addison-Wesley Publishing Company Inc., 1969
8. S.C. Malik and Savita Arora, Mathematical Analysis, New Age International Limited, New Delhi, 4th Edition 2010
9. D. Somasundaram and B. Choudhary: A First Course in Mathematical Analysis, Narosa Publishing House, New Delhi, 1997.



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MSc/Maths/1/CC3

Mechanics

Credits: 4 (Lectures: 60)

Duration of exam: 3 Hrs.

Marks: 100

Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: Analytical mechanics deals with motion of a system as a whole not as individual particles and takes in to account the constraints of the system to solve problems. This course let the students to understand basic concepts of analytical mechanics, degrees of freedom, generalized coordinates, Lagrangian mechanics, Hamiltonian mechanics, principles of least action and Hamilton-Jacobi theory.

Course Outcomes: This course will enable the students to:

1. Understand moments and products of inertia, kinetic energy of a rigid rotating body and general motion of a rigid body.
2. Learn about three dimensional rigid body dynamics, generalized coordinates, Lagrange's equations.
3. Understand Hamiltonian, Hamilton's variable, Hamilton's principle and Jacobi equations.
4. Understand concepts of Canonical transformations and Hamilton Jacobi equation.

Unit: 1.

Moments and products of Inertia, Angular momentum of a rigid body, principal axis and principal moment of inertia of a rigid body, Kinetic energy of a rigid body rotating about a fixed point, Momental ellipsoid and equimomental systems, coplanar mass distributions, general motion of a rigid body.

Unit: 2.

Free and constrained systems, constraints and their classification. Generalized coordinates. Holonomic and Non-Holonomic systems. Scleronomic and Rheonomic systems. Generalized Potential, Possible and virtual displacements, ideal constraints. Lagrange's equations of first kind, Principle of virtual displacements D'Alembert's principle, Holonomic Systems independent coordinates, generalized forces, Lagrange's equations of second kind. Uniqueness of solution. Theorem on variation of total Energy. Potential, Gyroscopic and dissipative forces, Lagrange's equations for potential forces equation for conservative fields.

Unit: 3.

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Hamilton's variables. Donkin's theorem. Hamilton canonical equations. Routh's equations. Cyclic coordinates Poisson's Bracket. Poisson's Identity. Jacobi-Poisson theorem. Hamilton's Principle, second form of Hamilton's principle. Poincare-Cartan integral invariant. Whittaker's equations. Jacobi's equations. Principle of least action

Unit: 4.

Canonical transformations, free canonical transformations, Hamilton-Jacobi equation. Jacobi theorem. Method of separation of variables for solving Hamilton-Jacobi equation. Testing the Canonical character of a transformation. Lagrange brackets. Condition of canonical character of a transformation in terms of Lagrange brackets and Poisson brackets. Simplicial nature of the Jacobian matrix of a canonical transformations. Invariance of Lagrange brackets and Poisson brackets under canonical transformations.

Recommended Books:

1. F. Gantmacher; Lectures in Analytic Mechanics, Khosla Publishing House, New Delhi.
2. H. Goldstein; Classical Mechanics (2nd edition), Narosa Publishing House, New Delhi.
3. F. Chorlton; A Text Book of Dynamics, CBS Publishers & Dist., New Delhi.
4. Francis B. Hilderbrand; Methods of applied mathematics, Prentice Hall.
5. Narayan Chandra Rana & Pramod Sharad Chandra Joag; Classical Mechanics, Tata McGraw Hill, 1991.
6. Louis N. Hand and Janet D. Finch; Analytical Mechanics, Cambridge University Press, 1998.



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MSc/Maths/1/CC4
Complex Analysis

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course objectives: One objective of this course is to develop the parts of the theory that are prominent in applications of the complex numbers. Other objective is to furnish an introduction to applications of residues. With regard to residues, special emphasis is given to their use in evaluating real improper integrals.

Course outcomes: This course will enable the students to:

1. Understand the concepts of differentiation and integration for functions defined over a complex plane in different regions and domains along with the fundamental results.
2. Learn about various formulae through the relevant theorems which form the base of complex analysis.
3. Understand various complex variable functions, transformations and series representation of complex functions.
4. Understand the concept of singularities, residues, poles and apply the results to solve the improper integrals.

Unit: 1.

Analytic functions, Harmonic functions, Path in a region, Smooth path, p. w. smooth path, Contour, Simply connected region, Multiply connected region, Complex integration, Antiderivatives, Cauchy-Goursat theorem, Cauchy-Goursat theorem for simply connected and multiply connected domains.

Unit: 2.

Cauchy integral formula, Extension of Cauchy integral formula for multiply connected domain, Higher order derivatives of Cauchy integral formula, Morera's theorem, Liouville's theorem, Fundamental theorem of algebra, Cauchy inequality, Maximum modulus principle, Gauss mean value theorem, Poisson integral formula.

Unit: 3.

Branches of many valued functions with special reference to $\arg z$, $\log z$, z^a , Bilinear transformations, Their Properties and classification, Definition and examples of Conformal mapping.

Taylor series, Laurent series, Power series and its convergence, Radius of convergence, Sum of power series, Differentiability of sum function of power series.

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Unit: 4.

Singularity and its classification, Residues, Cauchy residue theorem, Residues at poles, Zeros of analytic functions, Cassorati-Weierstrass theorem, Evaluation of improper integrals, Meromorphic functions, The Argument principle, Rouché's theorem.

Recommended Books:

1. J. W. Brown and R. V. Churchill; Complex Variables and Applications, McGraw Hill, 1996.
2. J. B. Conway; Functions of one Complex variable, Springer-Verlag, International student-Edition, Narosa Publishing House, 1980.
3. L. V. Ahlfors; Complex Analysis, McGraw-Hill, 1979.
4. Mark J. Ablowitz and A. S. Fokas; Complex Variables: Introduction and Applications, Cambridge University Press, South Asian Edition, 1998.
5. S. Ponnusamy; Foundations of Complex Analysis, Narosa Publishing House, 1997.
6. H. A. Priestly; Introduction to Complex Analysis, Clarendon Press, Oxford, 1990.



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MSc/Maths/1/CC5
Ordinary Differential Equations

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The objectives of this course are to study the existence and uniqueness theory of solutions of initial value problems, to familiarize with linear differential equation of order n and its solutions to study Wronskian theory, Fundamental set in detail, to understand Linear second order equations, the Sturm theory and boundary value problems in detail. The aim of the course is to form a strong foundation in the theory of ordinary differential equations and to learn to apply towards problem solving.

Course Outcomes: This course will enable the students to:

1. Understand concepts of an initial value problem and its exact and approximate solutions, existence of solutions, uniqueness of solutions and continuation of solutions of an initial value problem of order one. Apply the knowledge to prove specified theorems and to solve relevant exercises
2. Learn about Linear differential equation (LDE) of order n , Linear dependence and linear independence of solutions. Wronskian theory, Fundamental set. Non-homogeneous LDE. Theory of Adjoint equations and standard theorems related to these topics.
3. Have deep understanding of theory of Linear second order equations. Sturm theory and related basic theorems. Oscillatory and non-oscillatory equations.
4. Understand Second order linear, nonlinear, regular and singular boundary value problems (BVP), Sturm-Liouville BVP, eigen values and eigen functions and related theorems, Green's function and its applications for solving boundary value problems so as to be able to develop research aptitude in this area.

Unit: 1.

Preliminaries: Initial value problem and equivalent integral equation, ϵ -approximate solution, equicontinuous set of functions. Basic theorems: Ascoli- Arzela theorem, Cauchy-Peano existence theorem and its corollary. Gronwall's inequality.

Lipschitz condition. Picard-Lindelöf existence and uniqueness theorem for $\frac{dy}{dt} = f(t, y)$. Solution of initial value problem by Picard's method.



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Unit: 2.

Higher order equations: Linear differential equation (LDE) of order n ; Linear combinations, Linear dependence and linear independence of solutions. Wronskian theory: Definition, necessary and sufficient condition for linear dependence and linear independence of solutions of homogeneous LDE. Abel's Identity, Fundamental set. Reduction of order.

Non-homogeneous LDE. Variation of parameters. Adjoint equations, Lagrange's Identity, Green's formula. Linear equation of order n with constant coefficients.

Unit: 3.

Linear second order equations: Preliminaries, self adjoint equation of second order, basic facts. Superposition Principle. Riccati's equation. Prüfer transformation. Zero of a solution. Abel's formula. Common zeros of solutions and their linear dependence.

Sturm theory: Sturm separation theorem, Sturm fundamental comparison theorem and their corollaries. Oscillatory and non-oscillatory equations.

Unit: 4.

Second order boundary value problems (BVP): Linear problems; periodic boundary conditions, regular linear BVP, singular linear BVP; non-linear BVP. Sturm-Liouville BVP: definitions, eigen values and eigen functions. Orthogonality of functions, orthogonality of eigen functions corresponding to distinct eigen values. Green's function. Applications of Green's function for solving boundary value problems.

Recommended books:

- 1 E.A. Coddington and N. Levinson, Theory of Ordinary Differential Equations, Tata McGraw-Hill, 2000
- 2 S.L. Ross, Differential Equations, John Wiley & Sons
- 3 P. Hartman, Ordinary Differential Equations, John Wiley & Sons NY, 1971.
- 4 G. Birkhoff and G.C. Rota, Ordinary Differential Equations, John Wiley & Sons, 1978.
- 5 G.F. Simmons, Differential Equations, Tata McGraw-Hill, 1993.
- 6 I.G. Petrovski, Ordinary Differential Equations, Prentice-Hall, 1966.
- 7 D. Somasundaram, Ordinary Differential Equations, A first Course, Narosa Pub., 2001.
- 8 Mohan C Joshi, Ordinary Differential Equations, Modern Perspective, Narosa Publishing House, 2006



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MSc/Maths/1/SEC1
Computer Programming in ANSI C
(Practical)

Credits: 2 (Hours: 60)
Duration of exam: 3 Hrs.

Marks: 50

Note for the practical examiner: The examiner will set 4 questions at the time of practical examination. The examinee will be required to write two programs and execute one program successfully. The evaluation will be done on the basis of practical record, viva-voce, written exam and execution of the program.

Course objectives: This is a laboratory course and objective of this course is to acquaint the students with the practical use and to train for writing programme codes in ANSI-C for solving various mathematical problems.

Course Outcomes: This course will enable the students to:

1. Know the syntax of expressions, statements, structures and to write source code for a program in C.
2. Edit, compile, Debug, verify/check and execute the source program for practical problems to get the desired results.

Computing lab work will be based on programming in ANSI-C for computing various mathematical problems. There will be 12-15 problems/ programmes during the semester.

Recommended Books:

1. Y. Kanitkar; Let us C – Computer science series, Infinity Science Press.
2. E. Balagurusamy; Programming in ANSI-C, Mc-Graw Hill Publication.



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MSc/Maths/2/CC6
Advanced Abstract Algebra

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: As suggested by the name of the course itself, some of the advanced topics of abstract algebra will be taught to the students in this course including field extensions, finite fields, normal extensions, finite normal extensions as splitting fields. A study of Galois extensions, Galois groups of polynomials, Galois radical extensions shall also be made. Similar linear transformations, Nilpotent transformations and related topics are also included in the course.

Course Outcomes: This course will enable the students to:

1. Understand concepts of Characteristic of a ring with unity, field extension, algebraic and transcendental extension, algebraically closed field, splitting fields.
2. Have deep understanding of Finite fields. Roots of unity. Cyclotomic polynomials and their irreducibility over \mathbb{Q} . Normal extension, multiple roots and separable extension.
3. Learn about automorphism of fields, fundamental theorem of Galois theory, roots of unity, Construction with ruler and compass.
4. Have understanding of similar linear transformations. Invariant subspaces of vector spaces. Reduction of a linear transformation to triangular form, Primary decomposition theorem. Jordan blocks and Jordan canonical forms. Cyclic module relative to a linear transformation

Unit: 1.

Characteristic of a ring with unity. Prime fields $\mathbb{Z}/p\mathbb{Z}$ and \mathbb{Q} . Characterization of prime fields. Field extensions. Degree of an extension. Algebraic and transcendental elements. Simple field extensions. Minimal polynomial of an algebraic element. Conjugate elements. Algebraic extensions. Finitely generated algebraic extensions. Algebraic closure and algebraically closed fields. Splitting fields.

Unit: 2.

Finite fields. Roots of unity, Cyclotomic polynomials and their irreducibility over \mathbb{Q} . Normal extensions. Finite normal extensions as Splitting fields. Separable elements, separable polynomials and separable extensions. Perfect fields.
(Scope of the course as given in the book at Sr. No. 2).



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Unit: 3.

Galois extensions. Galois theory, Automorphism of fields. Fundamental theorem of Galois theory. Klein's 4-group and Dihedral group. Galois groups of polynomials. Fundamental theorem of Algebra. Radicals extensions. Galois radical extensions. Cyclic extensions. Solvability of polynomials by radicals over \mathbb{Q} . Construction with ruler and compass only. (Scope of the course as given in the book at Sr. No. 2).

Unit: 4.

Similar linear transformations. Invariant subspaces of vector spaces. Reduction of a linear transformation to triangular form. Nilpotent transformations. Index of nilpotency of a nilpotent transformation. Cyclic subspace with respect to a nilpotent transformation. Uniqueness of the invariants of a nilpotent transformation. Primary decomposition theorem. Jordan blocks and Jordan canonical forms. Cyclic module relative to a linear transformation. (Sections 6.4 to 6.7 of Topics in Algebra by I.N. Herstein).

Recommended Books:

- 1 I.N. Herstein; Topics in Algebra (Wiley Eastern Ltd.)
- 2 P.B. Bhattacharya S.R. Jain and S.R. Nagpal; Basic Abstract Algebra, (Cambridge University Press 1995)
- 3 VivekSahai and VikasBist; Algebra (Narosa publication House)
- 4 Surjit Singh and QuaziZameeruddin; Modern Algebra (Vikas Publishing House 1990)
- 5 Patrick Morandi; Field and Galois Theory (Springer 1996).



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MSc/Maths/2/CC7
Measure and Integration theory

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The main objective is to familiarize with Lebesgue outer measure, measurable sets, measurable functions, Lebesgue integration, fundamental integral convergence theorems, functions of bounded variation, differentiation of an integral and absolutely continuous functions.

Course Outcomes: This course will enable the students to:

1. Understand the concepts of measurable sets and Lebesgue measure, Borel sets and their measurability, construct a non-measurable set.
2. Know about Lebesgue measurable functions and their properties; and apply the knowledge to prove Egoroff's theorem, Lusin's theorem and F. Riesz theorem.
3. Understand the requirement and the concept of the Lebesgue integral (as a generalization of the Riemann integration) along its properties and demonstrate understanding of the statement and proofs of the fundamental integral convergence theorems.
4. Know about the concepts of differentiation of monotonic function, functions of bounded variations, differentiation of an integral and absolutely continuous functions.

Unit: 1.

Lebesgue outer measure, elementary properties of outer measure, Measurable sets and their properties, Lebesgue measure of sets of real numbers, algebra of measurable sets, Borel sets and their measurability, characterization of measurable sets in terms of open, closed, F_σ and G_δ sets, existence of a non-measurable set.

Unit: 2.

Lebesgue measurable functions and their properties, the almost everywhere concept, characteristic functions, simple functions, approximation of measurable functions by sequences of simple functions, measurable functions as nearly continuous functions. Lusin's theorem, almost uniform convergence, Egoroff's theorem, convergence in measure, F. Riesz theorem that every sequence which is convergent in measure has an almost everywhere convergent subsequence.

Unit: 3.

The Lebesgue Integral: Shortcomings of Riemann integral, Lebesgue integral of a bounded function over a set of finite measure and its properties, Lebesgue integral as a generalization

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of the Riemann integral, Bounded convergence theorem, Lebesgue theorem regarding points of discontinuities of Riemann integrable functions.

Integral of a non negative function, Fatou's lemma, Monotone convergence theorem, the general Lebesgue integral, Lebesgue convergence theorem.

Unit: 4.

Differentiation and Integration: Differentiation of monotone functions, Vitali's covering lemma, Lebesgue differentiation theorem, functions of bounded variation and their representation as difference of monotone functions. Differentiation of an integral, absolutely continuous functions.

Recommended Books:

1. H. L. Royden , Real Analysis, 3rd Edition Prentice Hall of India, 1999.
2. G.de Barra, Measure theory and integration, Willey Eastern Ltd., 1981.
3. P.R. Halmos, Measure Theory, Van Nostrans, Princeton, 1950.
4. I.P. Natanson, Theory of functions of a real variable, Vol. I, Frederick Ungar Publishing Co., 1961.
5. R.G. Bartle, The elements of integration, John Wiley & Sons, Inc. New York, 1966.
6. K.R. Parthsarthy, Introduction to Probability and measure, Macmillan Company of India Ltd., Delhi, 1977.
7. P.K. Jain and V.P. Gupta, Lebesgue measure and integration, New age International (P) Ltd., Publishers, New Delhi, 1986.



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MSc/Maths/2/CC8
Mechanics of Solids

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: In this course, basic theory of mechanics of solids is introduced. First, the laws of transformations and tensors will be introduced. Mathematical theory of deformations, analysis of strain and analysis of stress in elastic solids will be learnt next. A student will also learn basic equations of elasticity. In this course, the students will be exposed to the mathematical theory of elasticity and other techniques which find applications in areas of civil and mechanical engineering and Earth and material sciences. This course will expose a student to Applied Mathematics and will form a sound basis for doing research in the number of areas involving solid mechanics.

Course Outcomes: This course will enable the students to:

1. Understand the concept of tensors as a generalized form of directional entities and to explore their properties through the operations of algebra and calculus.
2. Understand the affine transformation, infinitesimal deformation, analysis of strain and stress tensors.
3. Learn about equations of equilibrium, examples of stress, about homogeneous isotropic elastic medium and anisotropic symmetries.
4. Learn about elastic constants, dynamical equations for an isotropic elastic media, Strain energy function and Saint-Venant's principle.

Unit: 1.

Coordinate-transformation, Cartesian Tensor of different order, Properties of tensors, Isotropic tensors of different orders and relation between them, Symmetric and skew symmetric tensors, Tensor invariants, Eigen-values and eigen-vectors of a tensor. Scalar, vector, tensor functions, Comma notation, Gradient, divergence and curl of a vector/tensor field.

Unit: 2.

Affine transformation, Infinitesimal affine deformation, Geometrical Interpretation of the components of strain, Strain quadric of Cauchy, Principal strains and invariants, General infinitesimal deformation, Saint-Venant's equations of compatibility, Stress, Stress Vector, Stress tensor.



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Unit: 3.

Equations of equilibrium, Transformation of coordinates, Stress quadric of Cauchy, Principal stresses and invariants, Maximum normal and shear stresses, Mohr's circles, Examples of stress, Generalised Hooks Law, Anisotropic symmetries, Homogeneous isotropic elastic medium.

Unit: 4.


Elastic moduli for isotropic media, Equilibrium and dynamical equations for an isotropic elastic media, Strain energy function and its connection with Hooke's Law, Beltrami-Michell compatibility conditions and equations, Saint- Venant's principle.

Recommended Books:

1. I.S. Sokolnikoff, Mathematical Theory of Elasticity, Tata-McGraw Hill Publishing Company Ltd., New Delhi, 1977.
2. D.S. Chandrasekharaiah and L. Debnath, Continuum Mechanics, Academic Press, 1994
3. A.E.H. Love, A Treatise on the Mathematical Theory of Elasticity, Dover Publications, New York.
4. Y.C. Fung. Foundations of Solid Mechanics, Prentice Hall, New Delhi, 1965.
5. Shanti Narayan, Text Book of Cartesian Tensors, S. Chand & Co., 1950.
6. S. Timoshenko and N. Goodier, Theory of Elasticity, McGraw Hill, New York, 1970.
7. I.H. Shames, Introduction to Solid Mechanics, Prentice Hall, New Delhi, 1975



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MSc/Maths/2/CC9
System of Differential Equations

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The objectives of this course are to learn about Linear homogeneous and non-homogeneous differential systems, differential equation of order n and its equivalent system of differential equations, Dependence of solutions on initial conditions and parameters, autonomous systems, critical points, paths of linear and quasi linear systems, stability of linear and quasi linear systems, limit cycles and periodic solutions.

Course Outcomes: This course will enable the students to:

1. Understand linear homogeneous and non-homogeneous differential systems and theory
2. Have good understanding of System of differential equations, Existence theorem for solution of system of differential equations. Dependence of solutions on initial conditions and parameters, and Floquet theory.
3. Know critical points of linear and quasilinear system of differential equations, their types and stability. Apply the gained knowledge to determine type and stability of critical points and check for existence of limit cycles of given systems.
4. Understand stability of linear and quasi-linear systems. Learn to apply Liapunov direct method to determine stability of such systems, Understand about limit cycles, periodic solutions and half-path or semiorbit.

Unit: 1.

Linear differential systems: Definitions and notations. Linear homogeneous systems; Existence and uniqueness theorem. Fundamental set and fundamental matrix of a homogeneous system. Wronskian of a system. Abel-Liouville formula. Adjoint systems, Reduction to smaller homogeneous systems.

Unit: 2

System of differential equations. Differential equation of order n and its equivalent system of differential equations. Existence theorem for solution of system of differential equations. Systems with constant coefficients, method of variation of constants for a non-homogeneous system. Periodic system. Floquet theory for periodic systems.



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Unit: 3.

Autonomous systems: the phase plane, paths and critical points, types of critical points; Node, Center, Saddle point, Spiral point. Stability of critical points. Critical points and paths of linear systems: basic theorems and their applications. Critical points and paths of quasilinear systems.

Unit: 4.

Stability of solution of system of equations with constant coefficients, linear equation with constant coefficients. Liapunov stability. Stability of quasi linear systems.

Limit cycles and periodic solutions: limit cycle, existence and non-existence of limit cycles, Benedixson's non-existence theorem. Half-path or Semiorbit, Limit set, Poincare-Benedixson theorem (statement only).

Recommended books:

1. E.A. Coddington and N. Levinson, Theory of Ordinary Differential Equations, Tata McGraw-Hill, 2000.
2. S.L. Ross, Differential Equations, John Wiley & Sons
3. S.G. Deo, V. Lakshmikantham and V. Raghavendra, Textbook of Ordinary Differential Equations, Tata McGraw-Hill, 2006.
4. Mohan C Joshi, Ordinary Differential Equations, Modern Perspective, Narosa Publishing House, 2006.
5. P. Hartman, Ordinary Differential Equations, John Wiley & Sons NY, 1971.
6. G. Birkhoff and G.C. Rota, Ordinary Differential Equations, John Wiley & Sons, 1978.
7. G.F. Simmons, Differential Equations, Tata McGraw-Hill, 1993.
8. I.G. Petrovski, Ordinary Differential Equations, Prentice-Hall, 1966.
9. D. Somasundaram, Ordinary Differential Equations, A first Course, Narosa Pub., 2001.



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MSc/Maths/2/DSC1
Methods of Applied Mathematics

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course objectives: The main objective of this course is to familiarize the students with Curvilinear Co-ordinates, areas, volumes and surface areas in Cartesian, Cylindrical and Spherical co-ordinates, Grad, div, Curl, Laplacian in orthogonal Co-ordinates, Hankel transforms and its properties, application of Hankel transform to Boundary Value Problem, Fourier Transform, motivating problems of calculus of variations.

Course Outcomes: This course will enable the students to:

1. Understand Curvilinear Co-ordinates, areas, volumes and surface areas in Cartesian, Cylindrical and spherical co-ordinates.
2. Know about Fourier Transform, its properties. Fourier transform of some elementary functions. Finite Fourier sine transform, finite Fourier cosine transform, Application of Fourier transform to solve ordinary and partial differential equation.
3. Know Hankel transforms and its properties, application of Hankel transform to Boundary Value Problem, relation between Fourier and Hankel transforms,
4. Know about Motivating problems of calculus of variations, fundamental lemma of calculus of variations.

Unit: 1.

Curvilinear Co-ordinates: Co-ordinate transformation, Orthogonal Co-ordinates, Change of Co-ordinates, Cartesian, Cylindrical and spherical co-ordinates, expressions for velocity and accelerations, ds , dv and ds^2 in orthogonal co-ordinates, Areas, Volumes & surface areas in Cartesian, Cylindrical & spherical co-ordinates in a few simple cases, Grad, Div, Curl, Laplacian in orthogonal Co-ordinates, Contravariant and Co-variant components of a vector, Metric coefficients & the volume element.

Unit: 2.

Fourier Transform: Definition and properties, Fourier transform of some elementary functions, Fourier transform of derivatives, Parseval's identity for Fourier transform, evaluation of integrals, convolution theorem, Finite Fourier sine transform, finite Fourier cosine transform, Application of Fourier transform to solve ordinary and partial differential equation.

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Unit: 3.

Hankel transforms, Definition, Elementary properties, Basic operational properties, Inversion theorem, Hankel transform of derivatives and some elementary functions, Relation between Fourier and Hankel transforms, Application of Hankel transform to Boundary Value Problem.

Unit: 4.

Motivating problems of calculus of variations, shortest distance, minimum surface of revolution, Branchistochrone problem, isoperimetric problem, geodesic. Fundamental lemma of calculus of variations, Euler's equation for one dependent function and its generalization to 'n' dependent functions and to higher order derivatives, conditional extremum under geometric constraints and under integral constraints. Ritz, Galerkin and Kantorovich methods.

Recommended Books:

1. I. N. Sneddon; The Use of Integral Transforms.
2. W. W. Bell; Special Functions for Scientists and Engineers.
3. Schaum's Series; Vector Analysis.
4. Lokenath Debnath; Integral Transforms and their Applications, CRC Press, Inc.
5. J. M. Gelfand and S. V. Fomin, Calculus of Variations, Prentice Hall, New Jersey, 1963.
6. Weinstock, Calculus of Variations, McGraw Hill.



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MSc/Maths/2/DSC2
Differential Geometry

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: Differential geometry is a discipline that uses the techniques of differential calculus, vector calculus and linear algebra to study problems in geometry and the mathematical analysis of curves and surfaces in space is studied in this course. The objective is to learn about curves in space and other related concepts; surfaces, envelopes, developable surfaces; curves on surfaces; and Geodesics.

Course Outcomes: This course will enable the students to:

1. Understand concepts of curves in space and other related concepts like tangent, principal normal, curvature, binormal, torsion, centre of curvature, spherical curvature, involutes, evolutes, Bertrand curves and to solve related problems
2. Understand and distinguish surfaces and their characteristics, developable surfaces, family of surfaces. Demonstrate knowledge to solve related problems of geometry.
3. Learn about curves on surfaces, conjugate systems, asymptotic lines, isometric lines, null lines etc. and minimal curves.
4. Derive equations of Gauss and Codazzi, Mainardi-Codazzi relations and Bonnet's theorem. Understand concepts of geodesics and curves in relation to geodesics and apply knowledge in problem solving.

Unit: 1.

Curves: Tangent, principal normal, curvature, binormal, torsion, Serret-Frenet formulae, locus of center of curvature, spherical curvature, locus of centre of spherical curvature, curve determined by its intrinsic equations, helices, spherical indicatrix of tangent, etc., involutes, evolutes, Bertrand curves.

Unit: 2.

Envelopes and Developable Surface: Surfaces, tangent plane, normal. One parameter family of surfaces; Envelope, characteristics, edge of regression, developable surfaces. Developables associated with a curve; Osculating developable, polar developable, rectifying developable. Two parameter family of surfaces; Envelope, characteristic points and examples. Curvilinear Coordinates, First order magnitudes, directions on a surface, the normal, second order magnitudes, derivatives of \mathbf{n} , curvature of normal section, Meunier's theorem. (Relevant portions from the book '*Differential Geometry of Three Dimensions*' by C.E. Weatherburn)

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Unit: 3.

Curves on a surface : Principal directions and curvatures, first and second curvatures, Euler's theorem, Dupin's indicatrix, the surface $z = f(x, y)$, surface of revolution. Conjugate systems; conjugate directions, conjugate systems. Asymptotic lines, curvature and torsion. Isometric lines; isometric parameters. Null lines, minimal curves.

Unit: 4.

The equations of Gauss and of Codazzi: Gauss's formulae for r_{11}, r_{12}, r_{22} , Gauss characteristic equation, Mainardi-Codazzi relations, alternative expression, Bonnet's theorem, derivatives of the angle ω .

Geodesics: Geodesic property, equations of geodesics, surface of revolution, torsion of a geodesic. Curves in relation to Geodesics; Bonnet's theorem, Joachimsthal's theorems, vector curvature, geodesic curvature, Bonnet's formula.

(Relevant portions from the book '*Differential Geometry of Three Dimensions*' by C.E. Weatherburn)

Recommended Books:

1. C.E. Weatherburn, *Differential Geometry of Three Dimensions*, Radha Publishing House, Calcutta, 1988.
2. John A. Thorpe, *Elementary Topics in Differential Geometry*, Springer Science & Business Media, 1994.
3. B.O. Neill, *Elementary Differential Geometry*, Academic Press, 1997.
4. Erwin Kreyszig, *Differential Geometry*, Dover Publications, 2013.
5. S. Sternberg, *Lectures on Differential Geometry*, Reprinted by AMS, 2016.
6. Nirmala Prakash, *Differential Geometry*, Tata McGraw-Hill Publishing Company Limited, 1992.
7. R.S. Millman and G.D. Parker, *Elements of Differential Geometry*, Prentice-Hall, 1977.



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MSc/Maths/2/DSC3
Mathematical Modelling

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course objectives: A mathematical model is a description of a system (device or a phenomenon) using mathematical concepts and language. The process of developing a mathematical model is defined as mathematical modelling. A mathematical model may help to explain a system and to study the effects of different components, and to make predictions about the system. During this course, the students will learn basic concepts of mathematical modelling and to construct mathematical models for population dynamics, epidemic spreading, economics, medicine, arm-race, battle, genetics and other areas of physical/life/social sciences. The course also aims to let the students learn mathematical modelling through ordinary/partial differential equations and probability generating function.

Course outcomes: This course will enable the students to:

1. Understand the need/techniques/classification of mathematical modelling through the use of first order ODEs and their qualitative solutions through sketching.
2. Learn to develop mathematical models using systems of ODEs to analyse/predict population growth, epidemic spreading for their significance in economics, medicine, arm-race or battle/war.
3. Attain the skill to develop mathematical models involving linear ODEs of order two or more and difference equations, for their relevance in probability theory, economics, finance, population dynamics and genetics.
4. Develop mathematical models through PDEs for mass-balance, variational principles, probability generating function, traffic flow problems alongwith relevant initial & boundary conditions.

Unit: 1.

Mathematical modeling: need, techniques, classification and illustrative examples; Mathematical modeling through ordinary differential equations of first order; qualitative solutions through sketching.

Unit: 2.

Mathematical modeling in population dynamics, epidemic spreading and compartment models; mathematical modeling through systems of ordinary differential equations; mathematical modeling in economics, medicine, arm-race, battle.



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Unit: 3.

Mathematical modeling through ordinary differential equations of second order. Higher order (linear) models. Mathematical modeling through difference equations: Need, basic theory; mathematical modeling in probability theory, economics, finance, population dynamics and genetics.

Unit: 4.

Mathematical modeling through partial differential equations: simple models, mass-balance equations, variational principles, probability generating function, traffic flow problems, initial & boundary conditions.

(Scope of the syllabus is from relevant portions of Chapters 1 to 6 of the book recommended at Sr. No. 1)

Recommended Books:

1. J.N. Kapur: *Mathematical Modelling*, New Age International Ltd., 1988.
2. M. Adler, *An Introduction to Mathematical Modelling*, HeavenForBooks.Com, 2001.
3. S.M. Moghadas, M.J.-Douraki, *Mathematical Modelling: A Graduate Text Book*, Wiley, 2018.
4. E.A. Bender, *An Introduction to Mathematical Modeling*, Dover Publication, 2000.



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MSc/Maths/2/SEC2
Computer Programming in FORTRAN 90 & 95 (Theory)

Credits: 2 (Lectures: 30)
Duration of exam: 2 Hrs.

Marks: 50
Theory: 30; IA: 20

Note for the paper setter: The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions selecting at least one question from each unit.

Course Objectives: The course comprises of theory as well as practical part is designed to train the students in the computer programming. The objective of this course is to develop a skill of writing codes in FORTRAN 90/95 for solving different types of mathematical problems which arise in the areas of Mathematics, Science and Engineering.

Theory Course Outcomes: This course will enable the students to:-

1. Get familiar with the importance and working of FORTRAN 90/95 as computation platform through the knowledge of constants and variables, expressions, implicit declaration, input/output and Format specifications
2. Get familiar with Logical expressions, control flow, conditional flow, Loops. Functions, subroutines, arrays, strings, array arguments.

Unit: 1.

Numerical constants and variables, arithmetic expressions, implicit declaration, named constants, input/output, Format specifications.

Unit: 2.

Logical expressions and control flow; conditional flow; IF structure, Block DO loop Counted controlled Loops. Functions, subroutines, arrays, strings, array arguments. Derived types Processing files.

Recommended Books:

1. V. Rajaraman; Computer Programming in FORTRAN 90 and 95; Printice-Hall of India Pvt. Ltd., New Delhi, 1997.
2. M.Metcalf and J.Reid; FORTRAN 90/95 Explained, OUP, Oxford, UK, 1996.



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MSc/Maths/2/SEC2
Computer Programming in FORTRAN 90 & 95 (Practical)

Credits: 2 (Hours: 60)
Duration of exam: 3 Hrs.

Marks: 50

Note for the practical examiner: The examiner will set 4 questions at the time of practical examination. The examinee will be required to write two programs and execute one program successfully. The evaluation will be done on the basis of practical record, viva-voce, written exam and execution of the program.

Practical Course Outcomes: This course will enable the students to:

3. Know the syntax of expressions, statements, structures and to write source code for a program in FORTRAN 90 & 95.
4. Edit, compile and execute the source program for desired results.


Computing lab work will be based on programming in FORTRAN 90 & 95 for computing various mathematical problems. There will be 12-15 problems/ programmes during the semester.

Recommended Books:

1. V. Rajaraman; Computer Programming in FORTRAN 90 and 95; Printice-Hall of India Pvt. Ltd., New Delhi, 1997.
2. M. Metcalf and J. Reid; FORTRAN 90/95 Explained, OUP, Oxford, UK, 1996.



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MSc/Maths/3/CC10
Topology

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The main objective of this course is to introduce basic properties of topological spaces, basis and sub basis for a topology. Further, to study continuity, homeomorphisms, open and closed maps, product topologies, projections. To study T_0 , T_1 , T_2 , T_3 , T_4 and compactness of spaces.

Course Outcomes: This course will enable the students to:

1. Know about topological spaces, understand neighbourhood system of a point and its properties, interior, closure, boundary, limit points of subsets, and base and subbase of topological spaces, first and second countable spaces, separable and Lindelof spaces, continuous functions.
2. Learn about comparison of topologies on a set, characterization of continuous functions, Tychonoff product topology, projection maps.
3. Separation axioms and their properties Urysohn's Lemma, Tietze's extension theorem.
4. Know about connected spaces and their properties, compactness in topological spaces, regularity and normality of a compact Hausdorff space.

Unit: 1.

Definition and examples of topological spaces, Neighborhoods, closed sets, closure, Interior, exterior and boundary of a set, Adherent points and Accumulation points, closure of a set as a set of adherent points, derived sets, properties of closure operator, dense subsets.

Base and sub-base for a topology, Neighbourhood system of a point and its properties, Base for a neighbourhood system, Subspaces and relative topology. First countable, second countable and separable spaces, their relationships and hereditary properties, about countability of a collection of disjoint open sets in a separable and second countable space, Lindelof's theorems.



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Unit: 2.

Comparison of topologies on a set, about intersection, union, infimum and supremum of a collection of topologies on a set, Definition, examples and characterizations of continuous functions, composition of continuous functions, open and closed functions, homeomorphism. Tychonoff product topology, defining base and sub-base for product topology, projection maps, characterization of product topology as smallest topology with continuous projections, continuity of a function from a space into a product of spaces, countability and product spaces.

Unit: 3.

Separation axioms, T_0 , T_1 , T_2 , Regular, T_3 spaces, their characterization and hereditary properties, productive properties of T_1 and T_2 spaces, completely regular and Tychonoff spaces, their hereditary and productive properties, Normal and T_4 spaces, normality of a regular Lindelof space, Urysohn's lemma, complete regularity of a regular normal space, T_4 implies Tychonoff, Tietze's extension theorem.

Unit: 4.

Connected spaces, separation of a topological space, definition of connectedness in terms of separation, characterization of connectedness, connected subsets and their properties, continuity and connectedness, connectedness and product spaces.

Compactness: definition and examples of compact spaces and subsets, compactness in terms of finite intersection property, continuity and compact sets, compactness and separation properties, closedness of compact subset and a continuous map from a compact space into a Hausdorff and its consequence, regularity and normality of a compact Hausdorff space.

Recommended Books:

1. J. L. Kelly; General Topology, Springer.
2. J. R. Munkers; Topology, Prentice Hall.
3. G. F. Simmons; Introduction to Topology and Modern Analysis, McGraw Hill.



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MSc/Maths/3/CC11
Fluid Mechanics

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: Fluid mechanics is a branch of continuum mechanics which deals with mechanics of fluids (liquids and gases) of ideal and viscous types. Fluid mechanics has a wide range of applications in the areas of mechanical engineering, civil engineering, chemical engineering, geophysics, astrophysics and biology. This course aims to provide basic concepts, laws and theories of fluid dynamics and to prepare a foundation to understand the motion of fluid and develop concepts, models and techniques which enables to solve the two and three dimensional problems of fluid flow and help in advanced studies and research in the broad area of fluid motion.

Course Outcomes: This course will enable the students to:

1. Be familiar with continuum model of fluid flow, classify fluid/flows, Stream, path and streak lines, rotational and irrotational motion. Understand Eulerian and Lagrangian descriptions of fluid motion, law of conservation of mass and boundary surfaces. Attain ability to derive equation of continuity and problem solving.
2. Learn to derive equations of motion, Bernouli equation, vorticity equation corresponding to different problems of fluid dynamics and to solve those equations. Prove theorems on circulation and energy in fluid flow. Make strong foundation for doing research in the area of fluid mechanics and bio-mechanics.
3. Understand motion of sphere in a fluid and fluid flow past a sphere at rest; sources, sinks, doublets and their images. Learn to solve three dimensional flow problems of fluid dynamics.
4. Understand two dimensional flow problems, stream function, axi-symmetric flow, complex potential, source, sink and doublets in two dimensions, Milne-Thomson circle theorem, Blasius theorem. Attain skills to solve fluid flow problems in two dimensions. Get exposure to research problems in fluid dynamics.

Unit: 1

Kinematics - Velocity at a point of a fluid, Eulerian and Lagrangian methods, Stream lines, path lines and streak lines, Velocity potential, Irrotational and rotational motions, Vorticity and circulation, Equation of continuity, Boundary surfaces, Acceleration at a point of a fluid, Components of acceleration in cylindrical and spherical polar co-ordinates.

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Unit: 2

Pressure at a point of a moving fluid, Euler equation of motion, Equations of motion in cylindrical and spherical polar co-ordinates, Bernoulli equation, Impulsive motion, Kelvin circulation theorem, Vorticity equation, Energy equation for incompressible flow, Kinetic energy of irrotational flow, Kelvin minimum energy theorem, Kinetic energy of infinite fluid, Uniqueness theorems.

Unit: 3

Axially symmetric flows, Liquid streaming past a fixed sphere, Motion of a sphere through a liquid at rest at infinity, Equation of motion of a sphere, Kinetic energy generated by impulsive motion, Motion of two concentric spheres, Three-dimensional sources, sinks and doublets, Images of sources, sinks and doublets in rigid impermeable infinite plane and in impermeable spherical surface.

Unit: 4


Two dimensional motion, Use of cylindrical polar co-ordinates, Stream function. Axisymmetric flow, Stoke stream function, Stoke stream function of basic flows, Irrotational motion in two- dimensions, Complex velocity potential, Milne-Thomson circle theorem, Two-dimensional sources, sinks, doublets and their images, Blasius theorem.

Recommended Books:

1. F. Chorlton, Text-book of Fluid Dynamics, C.B.S. Publishers, Delhi, 1985.
2. Michael E.O. Neill and F. Chorlton, Ideal and Incompressible Fluid Dynamics, John Wiley & Sons, 1986.
3. S. W. Yuan, Foundations of Fluid Mechanics, Prentice Hall of India Ltd., New Delhi, 1976.
4. G.K. Batchelor, An Introduction to Fluid Mechanics, Foundation Books, New Delhi, 1994.
5. R.K. Rathy. An Introduction to Fluid Dynamics, Oxford and IBH Publishing Company, New Delhi. 1976.
6. W.H. Besant and A.S. Ramsey, A Treatise on Hydromechanics, Part-II, CBS Publishers, Delhi, 1988.



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MSc/Maths/3/DSC4
Integral Equations

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The objectives of this course are to learn about integral equations, their classifications. Eigen values and eigen functions, method of successive approximations, resolvent kernel, iterated kernels and Neumann series in case of Fredholm and Volterra integral equations, solution of singular, Cauchy and Hilbert integral equation, Green function, reduction of a boundary value problem to a Fredholm integral equation with kernel as Green function.

Course outcomes: This course will enable the students to:

1. Understand the concept of integral equations, to classify them and to apply the eigen-system method for solving the Fredholm type with separable kernel. Eigen values and eigen functions, method of successive approximations, resolvent kernel, iterated kernels and Neumann series for Fredholm integral equations
2. Derive method of successive approximations, resolvent kernel, iterated kernels and Neumann series, Laplace transform method for Volterra integral equations.
3. Solve singular, Cauchy and Hilbert integral equation.
4. Design methods for reduction of a boundary value problem to a Fredholm integral equation with kernel as Green function. Apply the knowledge to solve problems.

Unit: 1.

Linear Integral equations, some basic identities, Initial value problems reduced to Volterra integral equations, Methods of successive substitution and successive approximation to solve Volterra integral equations of second kind, Iterated kernels and Neumann series for Volterra equations. Resolvent kernel as a series. Laplace transform method for a difference kernel. Solution of a Volterra integral equation of the first kind.

Unit: 2.

Boundary value problems reduced to Fredholm integral equations, Methods of successive approximation and successive substitution to solve Fredholm equations of second kind, Iterated kernels and Neumann series for Fredholm equations. Resolvent kernel as a sum of series. Fredholm resolvent kernel as a ratio of two series. Fredholm equations with separable kernels. Approximation of a kernel by a separable kernel, Fredholm Alternative, Non homogenous Fredholm equations with degenerate kernels.



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Unit: 3.

Singular integral equation, solution of Abel integral equation, solution of general form of Abel integral equation, Cauchy principal value for integrals: Cauchy's general and principal values, Holder condition, singular integrals, Plemelj formulas, Poincare-Bertrand transformation formula. Solution of Cauchy-Type singular integral equation, closed contour, unclosed contours and Riemann- Hilbert problem. Hilbert kernel, Hilbert formula, solution of Hilbert-type singular integral equation of first and second kind.

Unit: 4.

Green function, Use of method of variation of parameters to construct the Green function for a nonhomogeneous linear second order boundary value problem, Basic four properties of the Green function, Alternate procedure for construction of the Green function by using its basic four properties. Reduction of a boundary value problem to a Fredholm integral equation with kernel as Green function.

Recommended Books:

1. R.P. Kanwal, Linear Integral Equations, Theory and Techniques, Academic Press, New York.
2. M.D. Raishingania, Integral Equations and Boundary value problems, S. Chand and Company Pvt. Ltd. 2007.
3. S.G. Mikhlin, Linear Integral Equations (translated from Russian) Hindustan Book Agency, 1960.
4. A.J. Jerri, Introduction to Integral Equations with Applications, A Wiley-Interscience Publication, 1999.
5. W.V. Lovitt, Linear Integral Equations, McGraw Hill, New York.



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MSc/Maths/3/DSC5
Mathematical Statistics

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: Mathematical statistics is very useful in all branches of science as well as all branches of social sciences. The concept of mathematical statistics is surely one of the popular branches of mathematics. The main aim of this course is to introduce probability, random variable, mathematical expectation, correlation coefficient, discrete probability distributions, continuous probability distributions, testing of hypothesis, sampling distribution and standard error of estimate, large sample tests for single mean, Single proportion, difference between two means and two proportions.

Course Outcomes: This course will enable the students to:

1. Understand probability and various approaches of probability, addition theorem, Boole inequality, conditional probability, multiplication theorem, independent events, mutual and pairwise independence of events, Bayes theorem and its applications.
2. Understand random variable and probability functions, mathematical expectation, moment generating functions and their properties.
3. To learn about Uniform, Bernoulli, Binomial, Poisson and Geometric distributions with their properties, Uniform, Exponential and Normal distributions with their properties
4. To learn about parameter and statistic, sampling distribution and standard error of estimate, null and alternative hypotheses, simple and composite hypotheses, critical region, level of significance, one tailed and two tailed tests, two types of errors, large sample tests for single mean, single proportion, difference between two means and two proportions.

Unit: 1.

Probability: Definition and various approaches of probability, Addition theorem, Boole inequality, Conditional probability and multiplication theorem, Independent events, Mutual and pairwise independence of events, Bayes theorem and its applications.

Unit: 2.

Random variable and probability functions: Definition and properties of random variables, Discrete and continuous random variables, Probability mass and density functions, Distribution function. Concepts of bivariate random variable: joint, marginal and conditional distributions. Mathematical expectation: Definition and its properties. Variance, Covariance, Moment generating function- Definitions and their properties.

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Unit: 3.

Discrete distributions: Uniform, Bernoulli, Binomial, Poisson and Geometric distributions with their properties.

Continuous distributions: Uniform, Exponential and Normal distributions with their properties.

Unit: 4.

Testing of hypothesis: Parameter and statistic, Sampling distribution and standard error of estimate, Null and alternative hypotheses, Simple and composite hypotheses, Critical region, Level of significance, One tailed and two tailed tests, Two types of errors. Tests of significance: Large sample tests for single mean, Single proportion, Difference between two means and two proportions.

Recommended Books:

1. V. Hogg and T. Craig, Introduction to Mathematical Statistics, 7th addition, Pearson Education Limited-2014
2. A.M. Mood, F.A. Graybill, and D.C. Boes, Introduction to the Theory of Statistics, McGraw Hill Book Company.
3. J.E. Freund, Mathematical Statistics, Prentice Hall of India.
4. M. Spiegel, Probability and Statistics, Schaum Outline Series.
5. S.C. Gupta and V.K. Kapoor, Fundamentals of Mathematical Statistics, S. Chand Pub., New Delhi.



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MSc/Maths/3/DSC6
Advanced Complex Analysis

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The main objective of this course is to understand the notion of logarithmically convex function and its fusion with maximum modulus theorem, the spaces of continuous, analytic and meromorphic functions, Runge's theorem and topics related with it, introduce harmonic function theory leading to Dirichlet's problem, theory of range of an entire function leading to Picard and related theorems.

Course Outcomes: This course will enable the students to

1. Understand the basics of logarithmically convex functions that helps in extending maximum modulus theorem; learn about spaces of continuous, analytic and meromorphic functions.
2. Be familiar with Riemann mapping theorem, Weierstrass' factorization theorem, Gamma functions and its properties.
3. Understand Runge's theorem; know harmonic function theory on a disk; apply the knowledge in solving Dirichlet's problem; know about Green's function.
4. Know how big the range of an entire function is ; prove Picard and related theorems.

Unit: 1.

Convex functions and Hadamard's three circles theorem, Phragmen-Lindelöf theorem. Spaces of continuous functions, Arzela-Ascoli theorem, Spaces of analytic functions, Hurwitz's theorem, Montel's theorem, Spaces of meromorphic functions.

Unit: 2.

Riemann mapping theorem, Weierstrass' factorization theorem, Factorization of sine function, Gamma function and its properties, functional equation for gamma function, Bohr-Mollerup theorem, Reimann-zeta function, Riemann's functional equation, Euler's theorem.

Unit: 3.

Runge's theorem, Simply connected regions, Mittag-Leffler's theorem. Analytic continuation, Power series method of analytic continuation , Schwarz reflection principle. Monodromy theorem and its consequences.
Harmonic functions, Maximum and minimum principles, Harmonic function on a disk, Harnack's theorem, Sub-harmonic and super-harmonic functions, Dirichlet's problems, Green's function.



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Unit: 4.

Entire functions :Jensen's formula, Poisson–Jensen formula. The genus and order of an entire function, Hadamard's factorization theorem.

The range of an analytic function : Bloch's theorem, Little-Picard theorem, Schottky's theorem, Montel-Carathéodory theorem, Great Picard theorem.

Recommended Books:

1. Conway, J.B., Functions of One complex variables Narosa Publishing, 2000.
2. Ahlfors, L.V., Complex Analysis. McGraw-Hill Book Company, 1979.
3. Churchill, R.V. and Brown, J.W., Complex Variables and Applications McGraw Hill Publishing Company, 1990.
4. Priestly, H.A., Introduction to Complex Analysis Claredon Press, Orford, 1990.
5. Mark J.Ablewicz and A.S.Fokas, Complex Variables: Introduction & Applications, Cambridge University Press, South Asian Edition, 1998.
6. E.C.Titchmarsh, The Theory of Functions, Oxford University Press, London.
7. S.Ponnusamy, Foundations of Complex Analysis, Narosa Publishing House, 1997.



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MSc/Maths/3/DSC7
Advanced Mechanics of Solids

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course objectives: This course is in continuation to the course Mechanics of Solids being taught as a core paper in second semester. This paper deals with elastostatic problems on extension and torsion of beams through the application of forces and couples, and with viscoelasticity. The techniques used to solve these problems involve the applications of complex analysis, variational methods. The boundary value problems arising in plane elasticity are solved for analytical solutions. Some techniques of solving the three-dimensional elastodynamics problems are also discussed.

Course outcomes: This course will enable the students to:

1. Understand the concepts of plane strain, plane stress, Airy stress function and general solution of two dimensional problems in terms of complex potentials.
2. Understand the concepts of extension and torsion; and learn to solve different elastostatics problems of extension and torsion of beams.
3. Learn Variational methods, Deflection of elastic string and elastic membrane, Solution of Euler's equation by Ritz, Galerkin and Kantorovich methods.
4. Learn viscoelastic models, correspondence principle of viscoelasticity & its application to the Deformation of a viscoelastic Thick-walled tube in Plane strain.

Unit: 1.

Two dimensional problems: Plane strain deformation, State of Plane stress. Generalized plane stress, Airy stress function for plane strain problem, General solution of biharmonic equation, Stresses and displacements in terms of complex potentials, Deformation of a thick-walled elastic tube under external and internal pressures.

Unit: 2.

Extension: Extension of beams by longitudinal forces, beams stretched by its own weight.
Torsion: Torsion of a circular cylindrical beam, Torsional rigidity, Torsion and stress functions, Lines of shearing stress, Torsion of a beam of arbitrary cross-section and its special cases for circular, elliptical and equilateral triangular cross-sections, Circular grooves in a circular beam.

Unit: 3.

Variational methods: Theorems of minimum potential energy, Theorems of minimum complementary energy, Reciprocal theorem of Betti and Rayleigh, Deflection of elastic string



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and elastic membrane, Solution of Euler's equation by Ritz, Galerkin and Kantorovich methods.

Unit: 4.

Viscoelasticity: Spring & Dashpot, Maxwell & Kelvin Models, Three parameter solid, Correspondence principle & its application to the Deformation of a viscoelastic Thick-walled tube in Plane strain.

Recommended Books:

1. I.S. Sokolnikoff, *Mathematical Theory of Elasticity*, Tata McGraw Hill Publishing Company Ltd., New Delhi, 1977.
2. Teodar M. Atanackovic and ArdesivGuran, *Theory of Elasticity for Scientists and Engineers*, Birkhausev, Boston, 2000.
3. A.K. Mal & S.J. Singh, *Deformation of Elastic Solids*, Prentice Hall, New Jersey, 1991.
4. W. Flugge, *Viscoelasticity*, Springer Verlag.
5. A.S. Saada, *Elasticity-Theory and Applications*, Pergamon Press, New York, 1973.
6. Y.C. Fung. *Foundations of Solid Mechanics*, Prentice Hall, New Delhi, 1965.
7. D.S. Chandrasekharaiah and L. Debnath, *Continuum Mechanics*, Academic Press, 1994.



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MSc/Maths/3/DSC8
Advanced Discrete Mathematics

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The course consists of two sections. In the first section lattices are defined as algebraic structures. This section contains various types of lattices i.e. modular, distributive and complimented lattices. The notion of independent elements in modular lattices is introduced. Boolean algebra has been introduced as an algebraic system. Basic properties of finite Boolean algebra and application of Boolean algebra to switching circuit theory is also given.

Section two contains graph theory. In this section students will be taught connected graphs, Euler's theorem on connected graphs, trees and their basic properties. This section also contains fundamental circuits and fundamental cut-sets, planner graphs, vector space associated with a graph, and the matrices associated with graphs, paths, circuits and cut-sets. The contents of this paper find many applications in computer science and engineering science.

Course Outcomes: This course will enable the students to:

1. Understand concept of lattices, Boolean algebra.
2. Apply lattices to switching circuits.
3. Understand concept of graph, path, circuits, tree, fundamental circuits, cut-set and cut-vertices.
4. Understand concept of planer and dual graph, circuit and cut-set subspace, fundamental circuit matrix, cut- set matrix, path matrix and adjacency matrix.

Unit: 1.

Properties of lattice, modular and distributive lattices. Boolean algebra, basic properties, Boolean polynomial, ideals, minimal forms of Boolean polynomials. (Chapter 1 of recommended book at Sr. No. 1)

Unit: 2.

Switching circuits, application of lattice to switching circuits.
(Section 2.1 of chapter 2 of recommended book at Sr. No. 1)

Unit: 3.

Finite and infinite graphs, Incidence and degree, Isolated vertex, pendant vertex, Null graph, isomorphism, subgraphs, a puzzle with multicolored cubes, walks, paths and circuits. Connected and disconnected graphs, Components of a graph, Euler graphs, Hamiltonian

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paths and circuits, The traveling salesman problem. Trees and their properties, pendant vertices in a tree, distance and centers in a tree, rooted and binary tree. Spanning tree, Fundamental circuits. Spanning tree in a weighted graph. Cut-sets and their properties. Fundamental circuits and cut-sets. Connectivity and separability. Network flows. (Sections 1.1 to 1.5, 2.1 to 2.10, 3.1 to 3.10, 4.1 to 4.6 of recommended book at Sr. No. 2)

Unit: 4.

Planner graphs. Kuratowski's two graphs. Representation of planner graphs. Euler formula for planner graphs. Geometric dual, vector and vector spaces, Vector space associated with a graph. Basis vectors of a graph. Circuit and cut-set subspaces. Intersection and joins of W_C and W_S . Incidence matrix, submatrices of $A(G)$, Circuit matrix, Fundamental circuit matrix, and its rank, Cut-set matrix, path matrix and adjacency matrix .

(Sections 5.1 to 5.6, 6.4 to 6.7, 6.9, 7.1 to 7.4, 7.6, 7.8 & 7.9 of recommended book at Sr. No. 2)

Recommended Books:

1. Rudolf Lidl & Gunter Pilz, Applied Abstract Algebra, Springer-Verlag, Second Edition, 1998.
2. NarsinghDeo, Graph Theory with application to Engineering and Computer Science, Prentice Hall of India.
3. Nathan Jacobson, Lectures in Abstract Algebra Vol.I, D.VanNostrand Company, Inc.
4. L.R. Vermani, A course in discrete Mathematical structures (Imperial College Shalini Press London 2011).
5. C. L. Liu; Elements of Discrete Mathematics, McGraw-Hill Book Co.



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MSc/Maths/3/DSC9
Fuzzy Sets and Applications

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: Fuzzy sets and fuzzy logic are powerful mathematical tools for modeling; and are facilitators for common-sense reasoning in decision making in the absence of complete and precise information. The main objective of this course is to familiarize the students with fuzzy sets, operations on fuzzy sets, fuzzy numbers, fuzzy relations, possibility theory and fuzzy logic.

Course Outcomes: This course will enable the students to:

1. Learn about fuzzy sets; understand fuzzy-set-related notions such as α level sets, convexity, normality, support, etc., their properties and various operations on fuzzy sets.
2. Understand the concepts of t-norms, t-conorms, fuzzy numbers; extend standard arithmetic operations on real numbers to fuzzy numbers.
3. Understand various type of fuzzy relations.
4. Apply fuzzy set theory to possibility theory and Fuzzy logic.

Unit: 1.

Fuzzy Sets: Basic definitions, α -cuts, strong α -cuts, level set of a fuzzy set, support of a fuzzy set, the core and height of a fuzzy set, normal and subnormal fuzzy sets, convex fuzzy sets, cutworthy property, strong cutworthy property, standard fuzzy set operations, standard complement, equilibrium points, standard intersection, standard union, fuzzy set inclusion, scalar cardinality of a fuzzy set, the degree of subsethood.

(Scope as in relevant parts of sections 1.3-1.4 of Chapter 1 of the book by Klir&Yuan)

Additional properties of α cuts involving the standard fuzzy set operators and the standard fuzzy set inclusion, Representation of fuzzy sets, three basic decomposition theorems of fuzzy sets Extension principle for fuzzy sets: the Zedah's extension principle, Images and inverse images of fuzzy sets, proof of the fact that the extension principle is strong cutworthy but not cutworthy.

(Scope as in relevant parts of Chapter 2 of the book by Klir& Yuan)

Operations on fuzzy sets: types of operations, fuzzy complements, equilibrium of a fuzzy complement, equilibrium of a continuous fuzzy complement, first and second characterization theorems of fuzzy complements.

(Scope as in relevant parts of sections 3.1 and 3.2 of Chapter 3 of the book by Klir& Yuan)

Unit: 2.

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Fuzzy intersections (t-norms), standard fuzzy intersection as the only idempotent t-norm, standard intersection, algebraic product, bounded difference and drastic intersection as examples of t-norms, decreasing generator, the Pseudo-inverse of a decreasing generator, increasing generators and their Pseudo-inverses, conversion of decreasing generators and increasing generators to each other, characterization theorem of t-norms(statement only). Fuzzy unions (t-conorms), standard union, algebraic sum, bounded sum and drastic union as examples of t-conorms, characterization theorem of t-conorms (Statement only), combination of operations, aggregation operations.

(Scope as in relevant parts of sections 3.3 to 3.6 of Chapter 3 of the book by Klir& Yuan)

Fuzzy numbers, relation between fuzzy number and a convex fuzzy set, characterization of fuzzy numbers in terms of its membership functions as piecewise defined functions, fuzzy cardinality of a fuzzy set using fuzzy numbers, arithmetic operations on fuzzy numbers, extension of standard arithmetic operations on real numbers to fuzzy numbers, lattice of fuzzy numbers, (R, MIN, MAX) as a distributive lattice, fuzzy equations, equation $A+X = B$, equation $A.X = B$.

(Scope as in relevant parts of Chapter 4 of the book by Klir& Yuan)

Unit: 3.

Fuzzy Relations: Crisp and fuzzy relations, projections and cylindrical extensions, binary fuzzy relations, domain, range and height of a fuzzy relation, membership matrices, sagittal diagram, inverse of a fuzzy relation, composition of fuzzy relations, standard composition, max-min composition, relational join, binary relations on a single set, directed graphs, reflexive irreflexive, antireflexive, symmetric, asymmetric, antisymmetric, transitive (max-min transitive), non transitive, antitransitive fuzzy relations. Fuzzy equivalence relations, fuzzy compatibility relations, α -compatibility class, maximal α -compatibles, complete α -cover, reflexive undirected graphs, fuzzy ordering relations, fuzzy upper bound, fuzzy pre ordering, fuzzy weak ordering, fuzzy strict ordering, fuzzy morphisms. Sup-i compositions of Fuzzy relations, Inf-i compositions of Fuzzy relations.

(Scope as in the relevant parts of Chapter 5 of the book by Klir& Yuan)

Unit: 4.

Possibility Theory : Fuzzy measures, continuity from below and above, semicontinuous fuzzy measures, examples and simple properties; Evidence Theory, belief measure, superadditivity, monotonicity, plausibility measure, subadditivity, basic assignment, its relation with belief measure and plausibility measure, focal element of basic assignment, body of evidence, total ignorance, Dempster's rule of combination, examples; Possibility Theory, necessity measure, possibility measure, implications, possibility distribution function, lattice of possibility distributions, joint possibility distribution. Fuzzy sets and possibility theory, Possibility theory versus probability theory.

(Scope as in the relevant parts of Chapter 7 of the book by Klir& Yuan)

Fuzzy Logic: An overview of classical logic, about logic functions of two variables, Multivalued logics, Fuzzypropositions,FuzzyQuantifiers,Linguistic Hedges, Inference from conditional fuzzy propositions, inference from conditional and qualified propositions, inference from unqualified propositions.

(Scope as in the relevant parts of Chapter 8 of the book by Klir& Yuan)



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Recommended Books:

1. G. J. Klir and B. Yuan: Fuzzy Sets and Fuzzy : Logic Theory and Applications, Prentice Hall of India, 2008.
2. Kwang H. Lee, First Course on Fuzzy Theory and Applications, Springer International Edition, 2005.
3. H.J. Zimmerman, Fuzzy Set Theory and its Applications, Allied Publishers Ltd., New Delhi, 1991.
4. John Yen, Reza Langari, Fuzzy Logic - Intelligence, Control and Information, Pearson Education, 1999.
5. A.K. Bhargava, Fuzzy Set Theory, Fuzzy Logic & their Applications, S. Chand & Company Pvt. Ltd., 2013.



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MSc/Maths/3/DSC10
Financial Mathematics

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course objectives: No one can deny the fact that financial markets play a fundamental role in economic growth of nations by helping efficient allocation of investment of individuals to the most productive sectors of the economy. Financial sector has seen enormous growth over the past thirty years in the developed world. This growth has been led by the innovations in products referred to as financial derivatives that require great deal of mathematical sophistication and ingenuity in pricing and in creating an insurance or hedge against associated risks. Hence, this course is for anyone who is interested in the applications of finance, particularly advanced /latest business techniques. Students are required to know elementary calculus (derivatives and partial derivatives, finding maxima or minima of differentiable functions of one or more variables, Lagrange multipliers, the Taylor formula and integrals), probability (random variables and probability (binomial & normal) distributions, expectation, variance and covariance, conditional probability and independence) and linear algebra (systems of linear equations, add, multiply, transpose and invert matrices, and compute determinants).

Course outcomes: This course will enable the students to:

1. Understand the fundamentals of financial mathematics through derivatives, payoff functions, options, trader types, asset price models, random walks/ motion, no-arbitrage and relevant formula/simulation /hypothesis.
2. Use the Black-Scholes analysis for European options, risk neutrality, delta hedging, trading strategy involving options, along with the variations on Black-Scholes models for options on dividend-paying assets, warrants and futures.
3. Solve Black-Scholes equation using Monte-Carlo method, binomial methods, finite difference methods including fast algorithms for solving linear systems and design free boundary value problem, linear complementary problem, fixed domain problem for American option to be solved with projective/implicit methods.
4. Work on exotic options, path-dependent options, derivatives through bond models and interest rate models, convertible bonds and to learn stochastic calculus for its use in Brownian motion, stochastic integrals, stochastic differential equations and diffusion process.

Unit: 1.

Fundamentals of Financial Mathematics: Financial Markets, derivatives; Payoff functions, Options, Types of traders Asset Price Models: Discrete/continuous models and their

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solutions; Random walks; The Brownian motion; Ito's formula; Simulation of asset price model; Hypothesis of no-arbitrage-opportunities; Basic properties of option prices.

Unit: 2.

Black-Scholes Analysis: The Black-Scholes Equation; Exact solution for European options; Risk Neutrality; The delta hedging; Trading strategy involving options.

Variations on Black-Scholes models: Options on dividend-paying assets; Warrants; Futures and futures options.

Unit: 3.

Numerical Methods (Solving B.S equation): Monte Carlo method; Binomial Methods; Finite difference methods; Fast algorithms for solving linear systems;

American Option: free boundary value problem; linear complementary problem; fixed domain problem; Projective/implicit method for American put/call.

Unit: 4.

Exotic Options: Binaries; Compounds; Chooser options; Barrier option; Asian/lookback options;

Path-Dependent Options: Average strike options; Lookback Option

Bonds and Interest Rate Derivatives: Bond Models; Interest models; Convertible Bonds

Stochastic calculus: Brownian motion; Stochastic integral; Stochastic differential equation; Diffusion process.

Recommended Books:

1. Financial Mathematics: I-Liang Chern Department of Mathematics, National Taiwan University
2. Sheldon M. Ross, An Introduction to Mathematical Finance, Cambridge Univ. Press.
3. Robert J. Elliott and P. Ekkehard Kopp. Mathematics of Financial Markets, Springer-Verlag, New York Inc.
4. Robert C. Marton, Continuous-Time Finance, Basil Blackwell Inc.
5. Daykin C.D., Pentikainen T. and Pesonen M., Practical Risk Theory for Actuaries, Chapman & Hall.



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MSc/Maths/3/DSC11
Number Theory

Credits: 4 (Lectures: 60)

Duration of exam: 3 Hrs.

Marks: 100

Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The concept of number theory is surely one of the oldest ideas of Mathematics. The main aim of this course is to introduce arithmetic functions, Diophantine equations, Farey sequences, geometry of numbers, continued fractions. An attempt has been made in this course to strike a balance between different concepts of number theory.

Course Outcomes: This course will enable the students to:

1. Understand the concept of greatest integer function, arithmetic function, mobiusinversion formula, recurrence function, combinatorial number theory .
2. Find solution of Diophantine equations and rational points on curve.
3. Understand concept of Farey fractions, irrational numbers and geometry of numbers.
4. Have deep understanding of simple continued fractions, approximation to irrational number, Pell's equation.

Unit: 1.

Greatest integer function, Arithmetic function, multiplicative function, completely multiplicative function, mobius- inversion formula, recurrence function, combinatorial number theory.

Unit: 2.

Solution of the equation $ax+by =c$, simultaneous linear equations, Unimodular matrices, Pythagorean triangles, some assorted examples, ternary quadratic forms, rational points on curves.

Unit: 3.

Farey sequences, rational approximations, Hurwitz theorem, irrational numbers, Blichfeldt's principle, Minkowski's Convex body theorem, Lagrange's four square theorem.

Unit: 4.

Euclidean algorithm, finite and infinite continued fractions, approximations to irrational numbers, Best possible approximations, Hurwitz theorem, Periodic continued fractions, Pell's equation.



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Recommended Books:

1. Ivan Niven, Herbert S. Zuckerman , Hugh L. Montgomery, An Introduction to the Theory of Numbers, John Wiley & Sons (Fifth Edition), 1991.
2. G.H. Hardy and E.M. Wright, An introduction to the theory of numbers, Oxford University Press, 6th Ed, 2008.



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MSc/Maths/3/DSC12
Fourier and Wavelet Analysis

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: Wavelet analysis is a modern supplement to classical Fourier analysis. In some cases Wavelet analysis is much better than Fourier analysis in the sense that fewer terms suffice to approximate certain functions. The main objective of this course is to familiarize with the standard features of Fourier transforms along with more recent developments such as the discrete and fast Fourier transforms and wavelets. We consider the idea of a multiresolution analysis and the course we follow is to go from MRA to wavelet bases.

Course Outcomes: This course will enable the students to:

1. Have an idea of the finite Fourier transform, convolution on the circle group T , the Fourier transform and residues and know about continuous analogue of Dini's theorem and Lipschitz's test.
2. Know about $(C,1)$ summability for integrals, understand the Fejer-Lebesgue inversion theorem, Parseval's identities, the L_2 theory, Plancherel theorem and Mellin transform.
3. Have understanding of the Discrete and Fast Fourier transforms, and Buneman's Algorithm.
4. Understand Multiresolution Analysis, Mother wavelets; construction of scaling function with compact support, Shannon wavelets, Franklin wavelets, frames, splines and the continuous wavelet transform.

Unit: 1.

Fourier Transform: The finite Fourier transform, the circle group T , convolution to T , $(L(T), +, *)$ as a Banach algebra, convolutions to products, convolution on T , the exponential form of Lebesgue's theorem, Fourier transform : trigonometric approach, exponential form, Basics/examples.

Fourier transform and residues, residue theorem for the upper and lower half planes, the Abel kernel, the Fourier map, convolution on R , inversion, exponential form, inversion, trigonometric form, criterion for convergence, continuous analogue of Dini's theorem, continuous analogue of Lipschitz's test, analogue of Jordan's theorem.

(Scope as in relevant parts of Chapter 5 of the book "Fourier and Wavelet Analysis" by Bachman, Narici and Beckenstein)



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Unit: 2.

(C,1) summability for integrals, the Fejer-Lebesgue inversion theorem, the continuous Fejer Kernel, the Fourier map is not onto, a dominated inversion theorem, criterion for integrability of \hat{f}

Approximate identity for $L_1(\mathbb{R})$, Fourier Sine and Cosine transforms, Parseval's identities, the L_2 theory, Parseval's identities for L_2 , inversion theorem for L_2 functions, the Plancherel theorem, A sampling theorem, the Mellin transform, variations.

(Scope as in relevant parts of Chapter 5 of the book "Fourier and Wavelet Analysis" by Bachman, Narici and Beckenstein)

Unit: 3.

Discrete Fourier transform, the DFT in matrix form, inversion theorem for the DFT, DFT map as a linear bijection, Parseval's identities, cyclic convolution, Fast Fourier transform for $N=2^k$, Buneman's Algorithm, FFT for $N=RC$, FFT factor form.

(Scope as in relevant parts of Chapter 6 of the book "Fourier and Wavelet Analysis" by Bachman, Narici and Beckenstein)

Unit: 4.

Wavelets : orthonormal basis from one function , Multiresolution Analysis, Mother wavelets yield Wavelet bases, Haar wavelets, from MRA to Mother wavelet, Mother wavelet theorem, construction of scaling function with compact support, Shannon wavelets, Riesz basis and MRAs, Franklin wavelets, frames, splines, the continuous wavelet transform.

(Scope as in relevant parts of Chapter 7 of the book "Fourier and Wavelet Analysis" by Bachman, Narici and Beckenstein)

Recommended Books:

1. G. Bachman, L. Narici and E. Beckenstein : Fourier and Wavelet Analysis, Springer, 2000
2. Hernandez and G. Weiss : A first course on wavelets, CRC Press, New York, 1996
3. C. K. Chui: An introduction to Wavelets, Academic Press, 1992
4. I. Daubechies : Ten lectures on wavelets, CBMS_NFS Regional Conferences in Applied Mathematics, 61, SIAM, 1992
5. V. Meyer, Wavelets, algorithms and applications SIAM, 1993
6. M.V. Wickerhauser: Adapted wavelet analysis from theory to software, Wellesley, MA, A.K. Peters, 1994
7. D. F. Walnut: An Introduction to Wavelet Analysis, Birkhauser, 2002
8. K. Ahmad and F.A. Shah: Introduction to Wavelets with Applications, World Education Publishers, 2013



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MSc/Maths/3/SEC3
Computer Programming in MATLAB (Theory)

Credits: 2 (Lectures: 30)
Duration of exam: 2 Hrs.

Marks: 50
Theory: 30; IA: 20

Note for the paper setter: The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions selecting at least one question from each unit.

Course Objectives: The course, comprises of theory as well as practical part, aims to train the students in the computer programming. The objective of this course is to develop a skill of writing codes in MATLAB or equivalent Open Source software for solving different types of mathematical problems related to the areas of Mathematics, Science and Engineering.

Theory Course Outcomes: This course will enable the students to:-

1. Get familiar with the importance and working of MATLAB as computation platform through the knowledge of characters, variables, operators, functions and expressions as used for elementary operations in matrix algebra along with the editing, load/save data and compilation/execution/quitting of source programs.
2. Learn the process of writing a source program in MATLAB as high-level language making use of the statements for input/output, conditional/non-sequential processing involving functions, arrays and structures.

Unit: 1.

Introduction: Basics of programming; Anatomy of a program; Constants; Characters; Variables; Data types; Assignments; Operators; functions; Examples of expressions; Entering long statements; Command line editing. Good programming style.

Working with vectors: Defining a Vector, Accessing elements within a vector, Basic operations on vectors; Mathematical functions; Strings; String functions; Cell array; Creating cell array; Concatenation.

Working with Matrices: Generating matrices; Mathematical operations and functions; Deleting rows /columns; Linear algebra; Arrays; Multivariate data; Scalar expansion; Logical subscripting;

Input and output: Save/Load functions, M-files, To find function; The format function; Suppressing output;

Unit: 2.

Flow Control: if and else, switch and case, for loop, while loop, continue, break, try – catch, return.

Data Structures: Multidimensional arrays; Cell arrays, Characters and text; Structures, Scripts and Functions: Scripts; Functions; Types of functions; Global variables; Passing string arguments to functions; The eval function; Function handles; Function functions; Vectorization; Preallocation.

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Recommended Books:

1. *Learning MATLAB*, COPYRIGHT 1984 - 2005 by The MathWorks, Inc.
2. Amos Gilat, *MATLAB An Introduction With Applications 5ed*, Wiley, 2008.
3. C. F. Van Loan and K.-Y. D. Fan., *Insight through Computing: A Matlab Introduction to Computational Science and Engineering*, SIAM Publication, 2009.
4. T. A. Davis and K. Sigmon, *MATLAB Primer 7th Edition*, CHAPMAN & HALL/CRC, 2005.
5. B. R. Hunt, R. L. Lipsman, J. M. Rosenberg, K. R. Coombes, J. E. Osborn, and G. J. Stuck, *A Guide to MATLAB*, Second Edition, Cambridge University Press, 2006.
6. RudraPratap, *Getting Started with MATLAB*, Oxford University Press, 2010.
7. C. Gomez, C. Bunks and J.-P. Chancelier, *Engineering and Scientific Computing with SCILAB*, Birkhäuser, 2012.
8. A. Quarteroni, F. Saleri and P. Gervasio, *Scientific Computing with MATLAB and Octave*, Springer Nature, 2014.



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MSc/Maths/3/SEC3
Computer Programming in MATLAB (Practical)

Credits: 2 (Hours: 60)

Marks: 50

Duration of exam: 3 Hrs.

Note for the practical examiner: The examiner will set 4 questions at the time of practical examination. The examinee will be required to write two programs and execute one program successfully. The evaluation will be done on the basis of practical record, viva-voce, written exam and execution of the program.

Practical Course Outcomes: This course will enable the students to:

3. Know syntax of expressions, statements, data types, structures, commands and to write source code for a program in MATLAB.
4. Edit, compile/interpret and execute the source program for desired results.

Computing lab work will be based on programming in MATLAB for computing various mathematical problems. There will be 12-15 problems/ programmes during the semester.

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MSc/Maths/4/CC12
Functional Analysis

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The main objective of this course is to study normed linear spaces, Banach spaces, inner product spaces and Hilbert spaces. Hahn-Banach Theorem, Uniform Boundedness Theorem, Open Mapping Theorem and Closed Graph Theorem. Hilbert spaces, introducing basic concepts and proving the theorems associated with the names of Riesz, Bessel and Parseval, along with classifying operators into self-adjoint, unitary and normal operators.

Course Outcomes: This course will enable the students to:

1. Know about the requirements of a norm; completeness with respect to a norm; understand relation between compactness and dimension of a space; check boundedness of a linear operator and its relation to continuity, convergence of operators by using a suitable norm, dual spaces.
2. Learn about Hahn Banach Theorem and its applications, Riesz-representation theorem for bounded linear functionals on $C[a,b]$, know about adjoint of operators; understand reflexivity of a space, Uniform boundedness theorem.
3. Know about strong and weak convergence; understand open mapping theorem, bounded inverse theorem and closed graph theorem; distinguish between Banach spaces and Hilbert spaces; decompose a Hilbert space in terms of orthogonal complements, Projection theorem.
4. Learn about orthonormal sets and sequences, Bessel's inequality, total or complete orthonormal sets, Parseval's identity, Representation of functionals on Hilbert spaces, Riesz representation theorem for bounded linear functionals on a Hilbert space, sesquilinear form, Riesz representation theorem for bounded sesquilinear forms on a Hilbert space. Hilbert adjoint operator, its existence and uniqueness, properties of Hilbert adjoint operators, self adjoint, unitary, normal, positive and projection operators.

Unit: 1.

Normed linear spaces, Banach spaces, finite dimensional normed spaces and subspaces, equivalent norms, compactness and finite dimension, F.Riesz's lemma. Bounded and continuous linear operators, differentiation operator, integral operator, bounded linear



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extension, linear functionals, bounded linear functionals, continuity and boundedness, normed spaces of operators, dual spaces with examples.

Unit: 2.

Hahn-Banach theorem for normed linear spaces, application to bounded linear functionals on $C[a,b]$, Riesz-representation theorem for bounded linear functionals on $C[a,b]$, adjoint operator, norm of the adjoint operator. Reflexive spaces, uniform boundedness theorem and some of its applications to the space of polynomials and fourier series.

Unit: 3.

Strong and weak convergence, Open mapping theorem, bounded inverse theorem, closed linear operators, closed graph theorem, differential operator, relation between closedness and boundedness of a linear operator.

Inner product spaces, Hilbert spaces and their examples, pythagorean theorem, Apolloniou's identity, Schwarz inequality, continuity of innerproduct, completion of an inner product space, subspace of a Hilbert space, orthogonal complements and direct sums, projection theorem, characterization of sets in Hilbert spaces whose space is dense.

Unit: 4.

Orthonormal sets and sequences, Bessel's inequality, series related to orthonormal sequences and sets, total(complete) orthonormal sets and sequences, Parseval's identity, separable Hilbert spaces. Representation of functionals on Hilbert spaces, Riesz representation theorem for bounded linear functionals on a Hilbert space, sesquilinear form, Riesz representation theorem for bounded sesquilinear forms on a Hilbert space.

Hilbert adjoint operator, its existence and uniqueness, properties of Hilbert adjoint operators, self adjoint, unitary, normal, positive and projection operators.

Recommended Books:

1. E.Kreyszig: Introductory Functional Analysis with Applications, John Wiley and Sons, New York, 1978.
2. G.F.Simmons: Introduction to Topology and Modern Analysis, McGraw Hill Book Co., New York, 1963.
3. C. Goffman and G. Pedrick: First Course in Functional Analysis, Prentice Hall of India, New Delhi, 1987.
4. G. Bachman and L. Narici, Functional Analysis, Academic Press, 1966.
5. L.A. Lustenik and V.J. Sobolev, Elements of Functional Analysis, Hindustan Publishing Corporation, New Delhi, 1971.
6. J.B. Conway: A Course in Functional Analysis, Springer-Verlag, 1990.
7. P.K. Jain, O.P. Ahuja and Khalil Ahmad: Functional Analysis, New Age International(P) Ltd. & Wiley Eastern Ltd., New Delhi, 1997.



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MSc/Maths/4/CC13
Partial Differential Equations

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course objectives: The learning objective of this paper is to study partial differential equations (PDE) which are used to describe a wide variety of phenomena such as sound, heat, electrostatics, electrodynamics, fluid dynamics, elasticity and mechanics. During this course, a student will learn about partial differential equations including definition, classifications, analytical theory and methods of solutions of IVP, transport equations, Laplace's equation, Poisson's equation and heat equations, Green's function and method of solving PDEs by Green's function approach. Other component of the learning objective is to study Wave equation, solutions of wave equation in different forms, Kirchhoff's and Poisson's formula, solution of non-homogeneous wave equation, solution of Laplace, heat and wave equations by method of separation of variables, similarity solutions and by using Fourier and Laplace transforms.

Course outcomes: This course will enable the students to:

1. Classify the PDE of different orders into elliptic/ parabolic/ hyperbolic types and work on the methods to solve homogeneous and non-homogeneous PDEs.
2. Understand the role of Green's function in solving PDE and work on the methods/principle used to derive formulas for solutions of homogeneous and non-homogeneous parabolic/heat equations.
3. Use various methods to solve the homogeneous and non-homogeneous wave equations in different coordinate systems. Capacity to apply those techniques/methods to numerous problems that arise in science, engineering and other disciplines.
4. Learn to solve non-linear first order PDEs through complete integrals, envelopes, characteristics and solve Laplace, heat and wave equations using method of separation of variables and using integral transforms.

Unit-I:

Partial Differential Equations (PDE) of k^{th} order: Definition, examples and classifications. Initial value problems. Transport equations homogeneous and non-homogeneous, Radial solution of Laplace's Equation: Fundamental solutions, harmonic functions and their properties, Mean value Formula.

Poisson's equation and its solution, strong maximum principle, uniqueness, local estimates for harmonic functions, Liouville's theorem, Harnack's inequality.



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Unit-II:

Green's function and its derivation, representation formula using Green's function, symmetry of Green's function, Green's function for a half space and for a unit ball. Energy methods: uniqueness, D'Alambert's principle.

Heat Equations: Physical interpretation, fundamental solution. Integral of fundamental solution, solution of initial value problem, Duhamel's principle, non-homogeneous heat equation, Mean value formula for heat equation, strong maximum principle and uniqueness. Energy methods.

Unit-III:

Wave equation- Physical interpretation, solution for one dimensional wave equation, D'Alembert's formula and its applications, Reflection method, Solution by spherical means Euler-Poisson-Darboux equation. Kirchhoff's and Poisson's formula (for $n=2, 3$ only).

Solution of non-homogeneous wave equation for $n=1, 3$. Energy method. Uniqueness of solution, finite propagation speed of wave equation.

Non-linear first order PDE- complete integrals, envelopes, Characteristics of (i) linear, (ii) quasilinear, (iii) fully non-linear first order partial differential equations. Hamilton Jacobi equations.

Unit-IV:

Other ways to represent solutions: Method of Separation of variables for the Hamilton Jacobi equations, Laplace, heat and wave equations. Similarity solutions (plane waves, traveling waves, solitons, similarity under scaling).

Fourier Transform, Laplace Transform, Convertible non-linear into linear PDE, Cole-Hopf Transform, Potential functions, Hodograph and Legendre transforms. Lagrange and Charpit methods.

Recommended Books:

1. L.C. Evans, *Partial Differential Equations*, Graduate Studies in Mathematics, American Mathematical Society, 2014.
2. Ian N. Sneddon, *Elements of Partial Differential Equations*, Dover Publications, 2006.
3. T. Amarnath, *An Elementary Course in Partial Differential Equations*, Jones & Bartlett Publishers, 2009.
4. P. Parsad and R. Ravindran, *Partial Differential Equations*, New Age / International Publishers, 2005.
5. John F. *Partial Differential Equations*, Springer-Verlag, New York, 1971.



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MSc/Maths/4/CC14
Cardinal Principles of Academic Integrity and Publications Ethics

Credits: 2 (Lectures: 30)
Duration of exam: 2 Hrs.

Marks: 50
Theory: 30; IA: 20

Note for the paper setter: The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions selecting at least one question from each unit.

Course outcomes: This course will enable the students to:

1. Know Academic Integrity, Plagiarism (prevention and detection) and UGC regulations.
2. Research and Publications ethics and best practices.

Unit: 1.

Academic Integrity: Introduction, Academic Integrity Values- Honesty and Trust, Fairness and Respect, Responsibility and Courage, Violations of Academic Integrity-types and consequences, Plagiarism -definition, Plagiarism arising out of misrepresentation-contract cheating, collusion, copying and pasting, recycling, Avoiding Plagiarism through referencing and writing skills, UGC Policy for Academic Integrity and prevention, Some Plagiarism detection tools.

Unit: 2.

Research and Publication ethics: Scientific misconducts- Falsifications, Fabrication and Plagiarism (FPP), Publication ethics- definition, introduction and importance, Best practices/standard setting initiatives and guidelines-COPE, WAME etc., Violation of publication ethics, authorship and contributor-ship, Identification of publications misconduct, complains and appeals, Conflicts of Interest, Predatory publisher and journals.


Recommended Books/ Papers:

1. MacIntyre A (1967) A short History of Ethics, London
2. Chaddah P (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized. ISBN: 978-9387480865.
3. National Academy of Sciences, National Academy of Engineering and Institute of Medicine (2009) On being a Scientist: A guide to Responsible Conduct in research: Third Edition. National Academics press.
4. Resnik D. B. (2011) What is ethics in research & why is it important. National Institute of Environmental Health Sciences, 1-10.
5. Beall J (2012). Predatory publishers are corrupting open access, Nature, 489 (7415), 179.
6. Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019). ISBN: 978-81-939482-1-7.

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7. UGC regulations (2018) for Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutes.
8. Ulrike Kestler, Academic Integrity, Kwantlen Polytechnic University.



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MSc/Maths/4/DSC13
Mathematical Aspects of Seismology

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: Seismology is the study of earthquakes and deals with the generation and propagation of seismic waves. This course has been designed to study applications of mathematics in the field of seismology and will introduce about the interior of the Earth and basic concepts related to earthquakes viz. causes, observation and location of earthquakes, magnitude and energy etc. The students will learn the mathematical representation of waves, solutions of wave equation in different forms and wave phenomena in detail; elastic waves, their reflection and refraction; mathematical models for the propagation of surface waves and source problems.

Course Outcomes: This course will enable the students to:

1. Know mathematical representation of progressive waves and wave characteristics. Have knowledge to solve wave equation in different coordinate systems.
2. Learn dispersion of waves, representation of spherical waves and their expansion in terms of plane waves. Learn techniques to solve wave equation in order to obtain Sommerfield's integral which find great importance in energy transport phenomenon in science and engineering. Understand introductory concepts of earthquakes, seismology and wave propagation.
3. Learn about seismic waves and understand reflection and refraction of seismic waves. Apply knowledge of mathematics and knowledge attained in first two COs to formulate mathematical models having application in seismology and to solve such problems.
4. Understand surface waves and seismic sources (area, line and point). Attain skills to formulate and solve Lamb's problems.

Unit: 1.

Waves, General form of progressive waves, Harmonic waves, Plane waves, the wave equation, Principle of superposition. Progressive types solutions of wave equation, Stationary type solutions of wave equation in Cartesian, Cylindrical and Spherical coordinates systems, Equation of telegraphy, Exponential form of harmonic waves. D' Alembert's formula, Inhomogeneous wave equation.

Unit: 2.

Spherical waves, Expansion of a spherical wave into plane waves, Sommerfield's integral, Dispersion, Group velocity, relation between phase velocity and group velocity.

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Introduction to Seismology: Earthquakes, Location of earthquakes, Causes of Earthquakes, Observation of Earthquakes, Aftershocks and Foreshocks, Earthquake magnitude, Seismic moment, Energy released by earthquakes, Interior structure of the Earth.

Unit: 3.

Reduction of equation of motion to wave equations, P and S waves and their characteristics, Polarization of plane P and S waves, Snell's law of reflection and refraction, Reflection of plane P and SV waves at a free surface, Partition of reflected energy, Reflection at critical angles, Reflection and refraction of plane P, SV and SH waves at an interface, Special cases of Liquid-Liquid interface, Liquid-Solid interface and Solid-Solid interface.

Unit: 4.

Two dimensional Lamb's problems in an isotropic elastic solid, Area sources and Line Sources in an unlimited elastic solid, normal force acts on the surface of a semi-infinite elastic solid, tangential forces acting on the surface of a semi-infinite elastic solid, Surface waves, Rayleigh waves, Love waves and Stoneley waves.

Recommended Books:

1. C.A. Coulson and A. Jefferey, Waves, Longman, New York, 1977.
2. M. Bath, Mathematical Aspects of Seismology, Elsevier Publishing Company, 1968.
3. W.M. Ewing, W.S. Jardetzky and F. Press, Elastic Waves in Layered Media, McGraw Hill Book Company, 1957.
4. C.M.R. Fowler, The Solid Earth, Cambridge University Press, 1990
5. P.M. Shearer, Introduction to Seismology, Cambridge University Press, (UK) 1999.
6. Seth Stein and Michael Wysession, An Introduction to Seismology, Earthquakes and Earth Structure, Blackwell Publishing Ltd., 2003.
7. Bullen, K.E. and B.A. Bolt, An Introduction to the Theory of Seismology, Cambridge University Press, 1985.



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MSc/Maths/4/DSC14
Operation Research

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The objectives of this course are to learn scope of operation research, formulation of linear programming problems and their solutions with graphical method and Simplex method, dual problem and its relation with primal problem, transportation problems, balanced and unbalanced transportation problems, assignment problems, game theory, job sequencing, nonlinear programming methods.

Course outcomes: This course will enable the students to:

1. Understand Operation Research and its scope, graphical method and Simplex method for finding solutions of linear programming problems.
2. Know about primal problem and its dual problem, dual simplex method.
3. Understand to find solutions of transportation problems, assignment problems, traveling salesman problem.
4. Understand game theory, rule of dominance, solution of game theory problems by simplex method, nonlinear programming.

Unit: 1.

Operation Research and its Scope. The linear programming (LP) Problem, General formulation of LP problem, Graphical solution of LP problems, Slack and Surplus variables. Theory and application of Simplex Method to LP problems, Charne's M-technique, Two phase method, degeneracy, alternative optima, unbounded solutions and infeasible solutions.

Unit: 2.

Duality – Definition of dual problem, relation between optimal primal and dual solutions, Dual simplex method. Basic duality theorem, Fundamental duality theorem, Existence Theorem, Complementary slackness theorem.

Unit: 3.

Transportation problems, feasible, basic feasible and optimum solutions, finding initial basic feasible solution: North West corner rule and Vogel approximation method (VAM), Optimum solution u-v method, Degeneracy, Balanced and Unbalanced problems. Assignment problem: Hungarian method, Traveling-salesman problem. Game Theory – Two-person zero sum games, Games with mixed strategies, Minimum and maximum principle, Game with saddle point, Rule of dominance, Graphical solution, Solution by linear programming.

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Unit: 4.

Job Sequencing: Terminology and Notations, Principle assumptions, Solution of sequencing problem, Processing of n jobs through two machines, Johnson's Algorithm for n jobs two machines, Processing of n jobs through m machines. Unconstraint optimization, Constrainedmultivariables optimization, Language multiplier method, Nonlinear programming method, Kuhn Tucker conditions of optimality, Graphical method.

Recommended Books:

1. F. S. Hiller and G. J. Lieberman; Introduction to Operations Research (Sixth Edition), McGraw Hill international Edition, Industrial Engineering Series, 1995.
2. G. Hadley; Linear Programming, Narosa Publishing House, 1995.
3. G. Hadly; Nonlinear and Dynamic Programming, Addison-Wesley, Reading Mass.
4. H. A. Taha; Operation Research – An introduction, Macmillan Publishing Co. Inc., New York.
5. KantiSwarup, P. K. Gupta and Man Mohan; Operations Research, Sultan Chand & Sons, New Delhi.



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MSc/Maths/4/DSC15
Advanced Fluid Mechanics

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: This course deals with mechanics of real (viscous) fluids and objective of this course is to let the students have deep understanding of dynamics of viscous fluids and boundary layer theory. This is a strong foundation course to pursue research in the areas of Fluid Mechanics, Computational Fluid Dynamics, Bio-Mechanics, Mathematical Modeling and Mathematical Biology.

Course Outcomes: This course will enable the students to:

1. Have knowledge to understand Vorticity, vortices, Vortex doublet and Images; Newton's Law of viscosity and Stresses in a fluid.
2. Have knowledge of strain rate, relations between stresses and strain rate and equations of motion for viscous fluids.
3. Understand different kinds of flows; Steady and unsteady flow through different channels.
4. Recognize the concepts of dynamical similarity, dimensional analysis and Buckingham π -theorem with its applications; the concept of boundary layer and the associated theory.

Unit: 1

Vorticity in two dimensions, Circular and rectilinear vortices, Vortex doublet, Images, Motion due to vortices, Single and double infinite rows of vortices, Karman vortex sheet. Newton's Law of viscosity, Newtonian and non-Newtonian fluids, Stress components in a real fluid, State of stress at a point, Nature of stresses, transformation of stress components, Relation between Cartesian components of stress.

Unit: 2

Translational motion of fluid element, Rates of strain. Transformation of rates of strain, Principal stress & strain rate, Relation between stresses and rates of strain. The co-efficient of viscosity and laminar flow. Navier-Stoke equations of motion. Equations of motion in cylindrical and spherical polar co-ordinates. Diffusion of vorticity. Energy dissipation due to viscosity.

Unit: 3

Plane Poiseuille and Couette flows between two parallel plates. Theory of lubrication. Hagen Poiseuille flow. Steady flow between co-axial circular cylinders and concentric rotating

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cylinders. Flow through tubes of uniform elliptic and equilateral triangular cross-section. Unsteady flow over a flat plate. Steady flow past a fixed sphere. Flow in convergent and divergent channels.

Unit: 4

Dynamical similarity, Inspection analysis, Non-dimensional numbers, Dimensional analysis. Buckingham pi-theorem and its application, Physical importance of non-dimensional parameters.

Prandtl boundary layer, Boundary layer equation in two-dimensions, The boundary layer on a flat plate (Blasius solution), Characteristic boundary layer parameters, Karman integral conditions, Karman-Pohlhausen method.

Recommended Books:

1. W.H. Besant and A.S. Ramsey, A Treatise on Hydromechanics, Part-II, CBS Publishers, Delhi, 1988.
2. F. Chorlton, Text-book of Fluid Dynamics, C.B.S. Publishers, Delhi, 1985.
3. Michael E.O. Neill and F. Chorlton, Ideal and Incompressible Fluid Dynamics, John Wiley & Sons, 1986.
4. S. W. Yuan, Foundations of Fluid Mechanics, Prentice Hall of India Ltd., New Delhi, 1976.
5. G.K. Batchelor, An Introduction to Fluid Mechanics, Foundation Books, New Delhi, 1994.
6. H. Schlichting, Boundary Layer Theory, McGraw Hill Book Company, New York, 1979.
7. R.K. Rathy. An Introduction to Fluid Dynamics, Oxford and IBH Publishing Company, New Delhi. 1976.
8. A.D. Young, Boundary Layers, AIAA Education Series, Washington DC, 1989.



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MSc/Maths/4/DSC16
Boundary Value Problems

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The objective of this course is to learn to solve the boundary value problems. Boundary value problems find applications in all area of science and engineering. The different techniques to solve boundary value problems and mixed boundary value problems are studied in this course. Such problems can be solved with Green's function approach, Integral transform methods and by using Perturbation techniques. One of the objectives to study this course is to expose a student to real world problems that are formulated as boundary value problems.

Course Outcomes: This course will enable the students to:

1. Reduce boundary value problems involving ODEs to the equivalent integral and to solve such problems with Green's function and Modified Green's function approaches. Apply these techniques in problem solving.
2. Learn to find solutions of boundary value problems involving Laplace's equation, Poisson's equation and Helmholtz's equation by using theory of integral equations and Green's function. Attain skill to solve such BVP which arise frequently in different branches of engineering and sciences.
3. Learn to solve the integral equations by integral transform methods. Apply the gained knowledge in solving mixed boundary problems.
4. Understand Perturbation methods and attain capability to apply perturbation techniques in solving different listed boundary value problems of Electrostatics, Hydrodynamics and Elasticity.

Unit-I:

Applications to Ordinary Differential Equations; Initial value problems, Boundary Value Problems. Dirac Delta functions. Green's function approach to reduce boundary value problems of a self-adjoint-differential equation with homogeneous boundary conditions to integral equation forms. Green's function for N^{th} -order ordinary differential equation. Modified Green's function.

Unit-II:

Applications to partial differential equations: Integral representation formulas for the solution of the Laplace and Poisson Equations. The Newtonian, single-layer and double-layer potentials, Interior and Exterior Dirichlet problems, Interior and Exterior Neumann problems. Green's function for Laplace's equation in a free space as well as in a space

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bounded by a ground vessel. Integral equation formulation of boundary value problems for Laplace's equation. Poisson's Integral formula. Green's function for the space bounded by grounded two parallel plates or an infinite circular cylinder. The Helmholtz equation.

Unit-III:

Integral Transform methods: Introduction, Fourier transform. Laplace transform. Convolution Integral. Application to Volterra Integral Equations with convolution-type Kernels. Hilbert transform.

Applications to mixed Boundary Value Problems: Two-part Boundary Value problems, Three-part-Boundary Value Problems, Generalized Three-part Boundary Value problems.

Unit-IV:

Integral equation perturbation methods: Basic procedure, Applications to Electrostatics, Low-Reynolds-Number Hydrodynamics: Steady Stokes Flow, Boundary effects on Stokes flow, Longitudinal oscillations of solids in Stokes Flow, Steady Rotary Stokes Flow, Rotary Oscillations in Stokes Flow, Rotary Oscillation in Stokes Flow, Oseen Flow-Translation Motion, Oseen Flow-Rotary motion Elasticity, Boundary effects, Rotation, Torsion and Rotary Oscillation problems in elasticity, crack problems in elasticity, Theory of Diffraction.

Recommended Books:

1. Ram P. Kanwal, *Linear Integral Equations: Theory & Techniques*, Springer Science & Business Media, 2012.
2. S.G. Mikhlin, *Linear Integral Equations* (translated from Russian), Hindustan Book Agency, 1960.
3. F.G. Tricomi, *Integral Equations*, Courier Corporation, 1985.
4. Abdul J. Jerri, *Introduction to Integral Equations with Applications*, Wiley-Interscience, 1999.
5. Ian N. Sneddon, *Mixed Boundary Value Problems in potential theory*, North Holland Publishing Co., 1966.
6. Ivar Stakgold, *Boundary Value Problems of Mathematical Physics* Vol. I, II, Society for Industrial and Applied Mathematics, 2000.



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MSc/Maths/4/DSC17
Advanced Topology

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The main objective of this course is to familiarize with some advanced topics in topology. Starting from the convergence of sequences in topological spaces and in first axiom topological spaces, we move on to the introduction and convergence of nets in topological spaces followed by canonical way of converting nets to filters and vice versa. The concepts of metrisable spaces and paracompactness also form a part of the course along with some topics from algebraic topology including the fundamental group, Euclidean simplexes, singular simplexes etc.

Course Outcomes: This course will enable the students to:

1. Know about nets in topological spaces; learn canonical way of converting nets to filters and vice versa; understand the concepts of connectedness and local connectedness.
2. Have understanding of metrisable spaces and Urysohn's metrisation theorem; know about locally finite family and its equivalent forms, paracompactness of a metrisable space; apply knowledge to prove Nagata-Smirnov metrisation theorem and Smirnov metrisation theorem.
3. Understand homotopy classes, fundamental group, Euclidean simplexes and related concepts.
4. Learn about singular simplexes homology and relative homology groups; demonstrate understanding of the statement and proof of the excision theorem.

Unit: 1.

Convergence of sequences in topological spaces and in first axiom topological spaces, Nets in topological spaces, convergence of nets, Hausdorffness and convergence of nets, Subnets and cluster points, canonical way of converting nets to filters and vice versa, their convergence relations.

(Scope as in theorems 2-3,5-8 of Chapter 2 of Kelley's book recommended at Sr. No.1)

Connected spaces, connected subspaces of the real line, components and local connectedness.

(Scope as in relevant portions of sections 23-26 of Chapter 3 of the book by 'Munkres' recommended at Sr. No. 2)

Unit: 2.

Definition and examples of metrisable spaces, Urysohn's metrisation theorem. Locally finite family, its equivalent forms, countably locally finite family, refinement, open refinement,

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closed refinement of a family, existence of countably locally finite open covering of a metrisable space, Nagata-Smirnov metrisation theorem, Paracompactness, normality of a paracompact Hausdorff space, paracompactness of a metrisable space and of regular Lindelof space, Smirnov metrisation theorem.

(Scope as in theorems 34.1, 39.1-39.2, 40.3, 41.1-41.5 and 42.1 of Chapter 6 of the book by 'Munkres' recommended at Sr. No. 2)

Unit: 3.

Relation of homotopy of paths based at a point and homotopy classes, product of homotopy classes, Fundamental group, change of base point topological invariance of fundamental group.

(scope as in relevant parts of Chapter IV of the book by 'Wallace' recommended at Sr. No.3)

Euclidean simplex, its convexity and its relation with its faces, standard Euclidean simplex, linear mapping between Euclidean simplexes of same dimension.

(scope as in relevant parts of Chapter V of the book by 'Wallace' recommended at Sr. No.3)

Unit: 4.

Singular simplexes and group of p-chains on a space, special singular simplex on and its boundary, induced homomorphism between groups of chains, boundary of a singular simplex and a chain, cycles and boundaries on a space, homologous cycles, homology and relative homology groups, induced homomorphism on relative homology groups, induced homomorphism on relative homology groups, topological invariance of relative homology groups, Prisms, homotopic maps and homology groups.

(Scope as in relevant parts of Chapter VI of the book by 'Wallace' recommended at Sr. No.3)

Join of a point and a chain, Barycentric subdivision operator B, diameter of a Euclidean simplex and a singular simplex, operator H and its relation with B, representation of an element of a relative cycle made up of singular simplexes into members of a given open cover of the space, the excision theorem


(Scope as in relevant parts of Chapter VII of the book by 'Wallace' recommended at Sr. No.3)

Recommended Books:

1. J.L.Kelley, General Topology, Springer Verlag, New York, 2012.
2. J.R.Munkres, Topology, Pearson Education Asia, 2002.
3. A.H.Wallace, Introduction to Algebraic Topology, Dover Publications, 2007
4. K. ChandrasekharaRao, Topology, Narosa Publishing House Delhi, 2009.
5. Fred H. Croom, Principles of Topology, Cengage Learning, 2009.
6. K.D. Joshi, Introduction to General Topology, Wiley Eastern Ltd, 2006.
7. C.W.Patty, Foundation of Topology, Jones & Bertlett, 2009.
8. George F. Simmons, Introduction to Topology and Modern Analysis, McGraw-Hill Book Company, 1983.



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MSc/Maths/4/DSC18
Algebraic Coding Theory

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The course contains systematic study of coding and communication of messages. This course is concerned with devising efficient encoding and decoding procedures using modern algebraic techniques. The course begins with basic results of error detection and error correction of codes, thereafter codes defined by generator and parity check matrices are given. The course also contains polynomial codes, Hamming codes, construction of finite fields and thereafter the construction of BCH codes. Linear codes, MDS codes, Reed-Solomon codes, Perfect codes, Hadamard matrices and Hadamard codes are also the part of the course.

Course Outcomes: This course will enable the students to:

1. Understand group codes, matrix encoding techniques, polynomial codes and Hamming codes.
2. Have deep understanding of finite fields, BCH codes.
3. Learn about linear codes, cyclic codes, self dual binary cyclic codes.
4. Learn about MDS codes, Hadamard matrices and Hadamard codes.

Unit: 1.

Group codes, elementary properties, matrix encoding techniques. Generator and parity check matrices, polynomial codes. Vector space and polynomial ring, binary representation of numbers, Hamming codes.

(Chapter 1, 2 & 3 of recommended book at Sr. No. 1)

Unit: 2.

Basic properties of finite fields, irreducible polynomial over finite field, roots of unity.

(Sections 7.1 to 7.3 of recommended book at Sr. No. 2)

Some examples of primitive polynomials, BCH codes.

(Chapter 4 of recommended book at Sr. No. 1)

Unit: 3.

Linear codes, generator and parity check matrices, dual code of a linear code, Weight distribution of the dual code of a binary linear code, new codes obtained from given codes, cyclic codes, check polynomials, BCH and Hamming codes as cyclic codes, Non-binary Hamming codes, Idempotent, solved examples and invariance property, cyclic codes and group algebras, self dual binary cyclic codes.

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(Chapter 5, 6 of recommended book at Sr. No. 1)

Unit: 4.

Necessary and sufficient condition for MDS codes, the weight distribution of MDS codes, an existence problem, Reed Solomon codes. Hadamard matrices and Hadamard codes.

(Chapter 9 and 11 of recommended book at Sr. No. 1)

Recommended Books:

1. L.R. Vermani, Elements of Algebraic Coding Theory, CRC Press, 1996.
2. Steven Roman, Coding and Information Theory, Springer-Verlag, 1992.



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MSc/Maths/4/DSC19
Bio-Mathematics

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course objectives: This paper deals with a widely acceptable fact that many phenomena in life sciences and environment sciences can be modelled mathematically. Biology offers a rich variety of topics that are amenable to mathematical modeling, but some of the genuinely interesting are touched in this paper. It is assumed that students have no knowledge of biology, but they are expected to learn a substantial amount during the course. The ability to model problems using mathematics may not require much of the memorization, but it does require a deep understanding of basic principles and a wide range of mathematical techniques. Students are required to know differential equations and linear algebra. Topics in stochastic modeling are also touched, which requires some knowledge of probability.

Course outcomes: This course will enable the students to:

1. Derive population growth laws/models regulated through logistic equation, involving species competition, Lotka-Volterra predator-prey equations to develop the theory of age-structured populations using both discrete- and continuous-time models for their applications in life cycle of a hermaphroditic worm.
2. Model smaller populations those exhibit stochastic effects so as to analyze births rates in finite populations for their role in mathematical models of infectious disease epidemics and endemics so as to predict the future spread of a disease and to develop strategies for containment and eradication.
3. Learn the mathematical modeling of the evolution/maintenance of polymorphism to understand population genetics, influence of natural selection, genetic drift, mutation, and migration (i.e., evolutionary forces) in changing the Allele frequencies.
4. Derive mathematical models for biochemical reactions, including catalyzed by enzymes, based on the law of mass action, enzyme kinetics, fundamental enzymatic properties (i.e., competitive inhibition, allosteric inhibition, cooperativity) so as to know about DNA chemistry and the genetic code for alignment of DNA/RNA sequences by brute force, dynamic programming or gaps.

Unit: 1.

Population Dynamics: The Malthusian growth; The Logistic equation; A model of species competition; The Lotka-Volterra predator-prey model;

Age-structured Populations: Fibonacci's rabbits; The golden ratio Φ ; The Fibonacci numbers in a sunflower; Rabbits are an age-structured population; Discrete age-structured populations; Continuous age-structured populations; The brood size of a hermaphroditic worm.

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Unit: 2.

Stochastic Population Growth : A stochastic model of population growth; Asymptotics of large initial populations; Derivation of the deterministic model; Derivation of the normal probability distribution; Simulation of population growth.

Infectious Disease Modeling: The SI model; The SIS model; The SIR epidemic disease model; Vaccination ; The SIR endemic disease model ; Evolution of virulence.

Unit: 3.

Population Genetics: Haploid genetics; Spread of a favored allele; Mutation-selection balance; Diploid genetics; Sexual reproduction; Spread of a favored allele; Mutation-selection balance; Heterosis; Frequency-dependent selection; Linkage equilibrium; Random genetic drift.

Unit: 4.

Biochemical Reactions: The law of mass action; Enzyme kinetics; Competitive inhibition; Allosteric inhibition; Cooperativity. Sequence Alignment: DNA ; Brute force alignment; Dynamic programming; Gaps; Local alignments; Software.

Recommended Books:

1. Mathematical Biology, Lecture notes for MATH 4333, (Jeffrey R. Chasnov)
2. Mathematical Biology I. An Introduction, Third Edition, (J.D. Murray)



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MSc/Maths/4/DSC20
Algebraic Number Theory

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Objectives: The concept of ALGEBRAIC NUMBER THEORY is surely one of the recent ideas of mathematics. The main aim of this course is to introduce Norm and trace, Ideals in the ring of algebraic number field, Dedekind domains, Fractional ideals, Chinese Remainder theorem, Different of an algebraic number field, Hurwitz constant, Ideal class group, Minkowski's bound and Quadratic reciprocity.

Course Outcomes: This course will enable the students to:

1. Understand concept of integral bases and discriminant of algebraic number field, ring of algebraic integers and ideal in the ring of algebraic integers
2. Learn about integrally closed domains, Dedekind domain, fractional ideals and unique factorization, different of an algebraic number field, Dedekind theorem
3. Learn about Hurwitz's lemma, Hurwitz constant, finiteness of the ideal class group, class number of an algebraic number field, Diophantine equations, Minkowski's bound
4. Understand Legendre symbol, Gauss sums, law of quadratic reciprocity, quadratic field, primes in special progression, class number of quadratic fields

Unit: 1.

Norm and trace of algebraic numbers and algebraic integers, Bilinear map on algebraic number field K . Integral basis and discriminant of an algebraic number field, Index of an element of K , Ring O_K of algebraic integers of an algebraic number field K . Ideals in the ring of algebraic number field K .

Unit: 2.

Integrally closed domains. Dedekind domains. Fractional ideals of K . Factorization of ideals as a product of prime ideals in the ring of algebraic integers of an algebraic number field K . G.C.D. and L.C.M. of ideals in O_K . Chinese Remainder theorem, order of ideal in prime ideal, ramification degree of prime ideals, different of an algebraic number field K , Dedekind theorem.

Unit: 3.

Euclidean rings. Hurwitz Lemma and Hurwitz constant. Equivalent fractional ideals. Ideal class group. Finiteness of the ideal class group. Class number of the algebraic number field K . Diophantine equations, Minkowski's bound.

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Unit: 4.

Legendre Symbol, Jacobi symbol, Gauss sums, Law of quadratic reciprocity, Quadratic fields, Primes in special progression, class number of quadratic fields.

(Chapter 4, 5, 6 & 7 of recommended book no. 1)

Recommended Books:

1. Jody Esmonde and M.RamMurty, Problems in Algebraic Number Theory, Springer Verlag, 1998.
2. Paulo Ribenboim: Algebraic Numbers, Wiley-Interscience, 1972.
3. R. Narasimhan and S. Raghavan: Algebraic Number Theory, Mathematical Pamphlets-4, Tata Institute of Fundamental Research, 1966.



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MSc/Maths/4/DSC21
Advanced Numerical Analysis

Credits: 4 (Lectures: 60)
Duration of exam: 3 Hrs.

Marks: 100
Theory: 70; IA: 30

Note for the paper setter: The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course objectives: This course considers the high-end numerical methods, which are often required to get the numerical results from research studies in applied sciences and engineering. The objective of the course is to equip learners with specialized tools for solving transcendental and polynomial equations, system of linear equations, eigen-value problems, numerical differentiation, numerical integration, ordinary/partial differential equations so as to enable them to draw the algorithm of these numerical methods that form the basis to write source programs in any programming language.

Course outcomes: This course will enable the students to:

1. Learn about errors which arise during computation due to roundoff or truncation or number representation and the high-end numerical methods for solving transcendental and polynomial equations.
2. Attain the skills of solving system of linear equations using direct and iterative schemes and analysis of such schemes. Know to apply finite difference schemes/operators for numerical differentiation.
3. Learn advanced numerical methods to evaluate integrals for solving linear/non-linear first/second order IVP/BVP involving ODEs .
4. Understand the finite difference methods for solving parabolic, elliptic and hyperbolic PDEs and attain capability to use such methods in scientific problem solving.

Unit: 1.

Error Analysis: Errors, Absolute, relative and percentage errors; Significant digits and numerical instability, Propagation of errors in arithmetic operations, Significant errors, Representation of numbers in computer, Normalized floating point representation and its effects.

Solution of Polynomial and Transcendental Equations: Iteration methods; First order, second order and higher order methods, Acceleration of the convergence, Efficiency of a method, Newton-Raphson method for multiple roots, Modified Newton-Raphson method, Muller method and Chebyshev method, Birge-Vieta method, Bairstow method, Graeffe's root squaring method, Solutions of systems of non-linear equations.

Unit: 2.

Systems of Linear Equations: Matrix inverse methods, Triangularization method, Cholesky Method, Matrix partition method, Operation count, Ill-conditioned linear systems, Moore-

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Penrose inverse method, Least square solutions for inconsistent systems. Iteration methods Successive over relaxation (SOR) method, Convergence analysis. Eigen values and eigenvectors, bounds on eigen values, Given's method, Rutishauser method, Householder's method for symmetric matrices, Power method.

Numerical Differentiation based on difference formulae, Richardson's extrapolation method, Cubic spline method, Method of undetermined coefficients.

Unit: 3.

Numerical Integration: Weddle's rule, Newton-Cotes method, Gauss-Legendre, Gauss-Chebyshev, Gauss-Laguerre, and Gauss-Hermite integration methods. Composite integration method, Euler-Maclaurin's formula, Romberg Integration, Double integration.

Numerical Solution of Ordinary Differential Equations: Estimation of local truncation error of Euler and single step methods. Bounds of local truncation error and convergence analysis of multistep methods, Predictor-Corrector methods; Adams-Bashforth methods, Adams-Moulton formula, Milne-Simpson method, System of Differential Equations. Finite difference method for solving second order IVPs and BVPs, Shooting method for boundary value problems.

Unit: 4.

Solving Partial Differential Equations: Finite difference approximations to partial derivatives, solving parabolic equations using implicit and explicit formulae, C-N scheme and ADI methods; solving elliptic equations using Gauss-elimination, Gauss-Seidel method, SOR method, and ADI method, solving hyperbolic equations using method of characteristics, explicit and implicit methods, Lax-Wendroff's method.

Recommended Books:

1. Gupta, R. S., *Elements of Numerical Analysis*, Cambridge Univ. Press, 2015.
2. Jain, M. K., Iyengar, S.R.K. and Jain, R.K., *Numerical Methods for Scientific and Engineering Computation*, 6th Edition, New Age International Publishers, 2012.
3. Pal, M., *Numerical Analysis for Scientists and Engineers*, Narosa Publishing House Pvt. Ltd., 2008.
4. Mathews, John H. and Fink Kurtis D., *Numerical Methods Using Matlab*, Fourth edition; PHI Learning Private Ltd., 2009.
5. Gourdin, A. and Boumahrat, M., *Applied Numerical Methods*, PHI Learning Private Ltd., 2004.



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MSc/Maths/4/SEC4
Computer Programming in LATEX

Credits: 2 (Hours: 60)
Duration of exam: 3 Hrs.

Marks: 50

Note for the practical examiner: The examiner will set 4 questions at the time of practical examination. The examinee will be required to write two programs and execute one program successfully. The evaluation will be done on the basis of practical record, viva-voce, written exam and execution of the program.

Course Objectives: This is a laboratory course and objective of this course is to make students aware about preparing presentations and maintain course notes. This will also train them to write letters, books, thesis and scientific papers.

Practical Course Outcomes: This course will enable the students to:

1. Know the mathematical notations, consistent handling of intra-document references and bibliography and to write typesetting code for a program in LATEX.
2. Collaborative editing, interpret and execute the source program for desired results.

Computing lab work will be based on programming in LATEX. There will be 12-15 problems/ programmes during the semester.

Recommended Books:

1. LATEX tutorials; A PRIMER Indian TEX users group, Trivandrum, INDIA, 2003.
2. Kottwitz, Stefan; LaTeX beginner's guide, Packt Publishing, BIRMINGHAM-MUMBAI.



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**Learning Outcomes based Curriculum Framework
(LOCF)**

For

**M.A. History & Archaeology
Post Graduate Programme**



**Department of History & Archaeology
Chaudhary Devi Lal University
Sirsa, Haryana- 125055
2021**

Anil Kumar

PILaji

J.S. Singh

A.S. Singh

M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/CC1 Course : Ancient Societies-1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and Class Attendance (05 marks). 		
Course Outcomes		
CO1	Enhancement of knowledge about Human society and various cultures from Stone Age to Iron Age, world-wide phenomenon.	
CO2	Discuss major cultural structures, events and than shaping the world context.	
CO3	Sharpens the understanding about different sources to understand the Ancient India (particularly Archaeological & Literary).	
CO4	Enrichment of knowledge about relation of different Civilizations to each other.	
UNIT-1		
Origin of Tool making, Palaeolithic Cultures of the World : Lower, Middle and Upper Palaeolithic, Mesolithic and Neolithic Cultures: Origin of agriculture and settled life, Chalcolithic cultures and craft specialization.		
UNIT-2		
Bronze Age Civilization in Mesopotamia: Origin of Early City States, Origin of Empires. (Sumerian and Akkadian) State Structure, Economy, Social Stratification and Religion.		
Bronze Age Civilization in Egypt: Origin, State Structure, Economy & Trade, Social life, Religion.		
UNIT-3		
Harappan Civilization: Pre-Harappan and Early Harappan Cultures, Origin, authors and extent of the Harappan Civilization, Development of Harappan Civilization, Trade, Economy, Social and Religious Life, Decline and Legacy of Harappan Civilization.		
UNIT-4		
Chinese Civilization: Beginning Middle Kingdom, Shang Civilization, Socio-Economic Life and Religious Beliefs		
Mayan Civilization: Socio-Economic Life, Arts, Science and Technology.		
Inca Civilization: Socio-Economic Life, Arts, Science and Technology.		

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J.S. Singh

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Suggested Reading:

- Allchin, B&R, 1988, *The Rise of Civilization in India and Pakistan*, Cambridge University Press, Cambridge.
- Beers Burton F., 1993, *World History: Patterns of Civilization*, Prentice Hall, New Jersey.
- Child, V.G., 1964, *What Happened in History*, Penguin Books.
- Demarest, A.A., 2005, *Ancient Maya*, Stanford University Press, (6th ed.)
- Goyal, Shriram, 1994, *Vishva ki Prachin Sabhyatayen*, Vishvavidyalaya Prakashan Varanasi.
- Kramer, S.N., 1963, *The Sumerians*, University Press Chicago.
- Pathak, S.M., 1986, *Vishva ki Prachin Sabhyata ka Itihas*. Bihar Hindi Granth Academy, Patna.
- Possehl, G.L., 1982, *Harappan Civilization: A Contemporary Perspective*, American Institute of Indian Studies, New Delhi.
- Ray, Uday Narayain, 1982, *Vishva Sabhyata Ka Itihas*, Lok Bharti, Allahabad.
- Robert, J. 2009., *Daily Life in Inca Civilization*, Greenwood Press London.
- Sharer, Robert, J., 2009, *Daily Life in Maya Civilization*, Greenwood Press London. Sharer.
- Silverman, David, R. 1997, *Ancient Egypt*, Oxford University Press, Oxford.
- Singh, Purushottam, 1997, *The Neolithic Origins*, Agam Kala Prakashan, Delhi.
- Singh, Upinder, 2009, *A History of Ancient and Early Medieval India: from the Stone Age to the 12th Century*, Delhi: Pearson Longman.
- Spievoegi, Jackson, 2007, *Ancient Civilization*, McGraw Hill, New York.
- Thapliyal, K.K. & Shukla S.P., 1976, *Sindhu Sabhyata*, Uttar Pradesh Hindi Granth Academy, Lucknow.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/CC2 Course : Medieval Societies-1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> Nine questions will be set in all and students will be required to attempt 5 questions. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes :		
CO1	Enhancement of knowledge about developments in Feudal India and Medieval India.	
CO2	Analyze and describe the Medieval State structure in Sultanate and Mughals.	
CO3	Sharpens the understanding about different sources to understand the Medieval India (particularly Archaeological & Literary).	
CO4	Enrichment of knowledge to understand the political institution of Medieval State i.e. Iqtadari, Mansabdari, Jagirdari, Zamindari.	
UNIT-1		
Structural Changes and Continuities: Characterising the Medieval India, Problem of Periodization and Transition from Ancient to Medieval Indian Society, Impacts of Advent of Turks, Theories on the Decline of Mughal Empire, 18 th Centurey Debate.		
UNIT-2		
Administrative Institutions: Iqtadari System, Mansabdari System, Jagirdari System, Zamindari Policy of Mughals.		
UNIT-3		
Economic Developments Urbanization and its Debate (Sultanate & Mughals), Technological Changes (Sultanate & Mughals), Village Community (Sultanate & Mughals), Potentialities of Capitalistic Development in the Economy of Mughal India (Debate).		
UNIT-4		
Social and Religious Salients: Medieval State and Religion (Sultanate & Mughal), Bhakti Movement, Sufi Movement, Literature and Cultural Development in South India (Under Bahmani & Vijyanager)		
Suggested Reading : <ul style="list-style-type: none"> Ali, M.Athar,1966, <i>The Mughal Nobility Under Aurangzeb</i>. Asia Publishing House, Bombay. Ashraf, K.M.,1970, <i>Life and Conditions of the People of Hindustan</i>, Munshiram Manoharlal,Delhi. Chandra Satish, 1987, <i>Essays in Medieval Indian Economic History</i>, Munshiram 		

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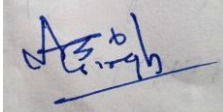
Manoharlal, Delhi.

- Chandra Satish, 1987, *Parties and Politics at the Mughal Court*, People's Publishing House, Delhi.
- Chandra Satish, 2003, *Essays on Medieval Indian History*, Oxford University Press, New Delhi.
- Datta, Rajat, 2008, *Rethinking A Millennium: Perspectives on Indian History from the Eight to Eighteenth Century*, Aakar Books, Delhi.
- Husain, Yusuf, *Glimpses of Medieval Indian Culture*, Asia Publishing House, Bombay.
- Irfan Habib(ed.), 2003, *Madhyakalin Bharat, Vols. 1-8*, Rajkamal Prakashan, Delhi.
- Jackson, Peter, 1999, *The Delhi Sultanate, A Political and Military History*, Cambridge University Press, New York.
- Kulke, Hermann (ed.), 1997, *State in India 1000-1700*, Oxford University Press, New Delhi.
- Mehta, J.L, 2012, *Madhyakaleen Bharat : Ek Sankshipt Itihas*, Arun Publishing House, Chandigarh.
- Mukhia, Harbans, 1993, *Perspectives on Medieval History*, Vikas Publication, New Delhi.
- Sarkar, Jadunath 1988-92, *The Fall of the Mughal Empire, 4 Vols*, Orient Longman, Delhi, (Fourth edn.)
- Siddiqui, I.H. (ed.), 2003, *Medieval India: Essays in Intellectual Thought Culture*, Munshiram Manoharlal Publisher, New Delhi.
- Singh, Upinder, 2009, *A History of Ancient and Early Medieval India: from the Stone Age to the 12th century*, Delhi: Pearson Longman.
- Streusand, Douglas E, 1989, *The Formation of the Mughal Empire*, Oxford University Press, Delhi.
- Verma, H.C. (Ed.), *Madhyakalin Bharat, Vols. 1 & 2*, Hindi Madhyam Karyanvaya Nideshalaya University of Delhi.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/CC3 Course : Modern World: Socio- Economic Trend	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Enhancement of knowledge about the various socio-economic trends in Modern Period.
CO2	Analyze and describe how the modern west was emerged through Renaissance and other socio-economic developments.
CO3	Sharpens the understanding about the rise of new order in the world in the form of Socialism and about the world crisis of 1919 and 1939 which led to World Wars.
CO4	Enrichment of knowledge to understand how the new political system emerged based on representative system.

UNIT-1

The Concept and Definition: What is World History?,

Rise of Modern World:

Renaissance, Reformation,

Age of mercantilism and the Beginnings of Capitalism:

Features of Mercantilism, Mercantile Activities of Different Countries, Beginnings of Capitalism

UNIT-2

Agricultural Revolution in Western Europe:

Agricultural System in Pre-Modern Period, Development of New Methods and Knowledge , Impact of the New Agriculture

Development of Science and Technology:

Its History, Technological Revolution, Impact of the Revolution.

UNIT-3

Development of Capitalism:

Britain, France, Germany, Japan

Development of Imperialism:

Geographical Expansion : Asia & Africa, Its Theories : Economic and Non-Economic

UNIT-4

Stages of Colonialism in India:

Mercantile Capital Stage, Industrial/Free Trade Capital Stage, Finance Capital Stage

The Far East and Western Economic Dominance:

Japan, China: Opium Wars and the Development of Treaty Port System

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- Hobsbawm, E.J., 1970, *Nation and Nationalism*, Cambridge.
- Joll, James, 1984, *Origin of the First World War*, New York.
- Jophson, Chatness A., 1984, *Peasant Nationalism and Communist Power: The Emergency of Red China 1937-1945*, London.
- Lichtheim, George, 1976, *A Short History of Socialism*, New York.
- Lucas. Colin, 1988, *The French Revolution and the Making of Modern Political Culture*, Vol. 2, Pergoman.
- Riasanovsky, N.V., 1984, *History of Russia*, OUP.
- Roth, J.J. (Ed.), 1967, *World War II: A Turning Point in Modern History*.
- Sanchuman, F., 2002, *International Relations*, Cambridge.
- Snyder, Louis L., 1996, *The Meaning of Nationalism*, Paris.
- Thompson, David, *Europe Since Napoleon*, New York.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/CC4 Course : State in India (E.T. to 1526 A.D.)-1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> Nine questions will be set in all and students will be required to attempt 5 questions. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes :		
CO1	Enhancement of knowledge about Institutional History that how the Institution of state rise and develop in India.	
CO2	Analyze and describe the emergence of the Mauryan and Gupta Empires during the Classical age in India	
CO3	Sharpens the understanding about the key facts of Indian Society and the rise of Technology and Commerce.	
CO4	Formulate logical arguments substantiated with Historical aspects.	
UNIT-1		
Towards Formation of State: Different Theories of the formation of State, Proto State, Chiefdoms of Later Vedic Times		
UNIT-2		
The Mauryan State: Central Administration, Provincial Administration, Military Administration The Gupta Polity Central Administration, Provincial Administration, Military Administration		
UNIT-3		
Delhi Sultanate: Islamic Theories of State and Kingship, Nature of State: Under the Mamluk, Khalji, Tuglaq, Saiyyad & Lodhi, Sources of the Legitimacy under the Sultans of Delhi, State and the Nobility (1200-1526 A.D.)		
UNIT-4		
State and the Ulemas, Delhi Sultanate: Central Administration, Provincial Administration, Military Organization.		
Suggested Reading: <ul style="list-style-type: none"> Altekar, A.S., 1986, <i>State and Government in Ancient India</i>, Motilal Banarsidass, Delhi. Bhandarkar, D.R., 1988, <i>Some Aspects of Hindu Polity</i>, B.R. Publishing Corporation, New Delhi. Chandra, Bipan, 1996, <i>Nationalism and Colonialism in India</i>, Delhi. Chandra, Satish, 1997, <i>Medieval India (From Sultanate to the Mughals, 1206-1526)</i>, 		

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- Dishitar, V.R.R, 1993, *The Gupta Polity*, Motilal Banarsidass, Delhi.
- Dishitar, V.R.R. ,1993, *The Mauryan Polity*, Motilal Banarsidass, Delhi.
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- Sarkar, B.K., 1994, *Political Institution and Theories of the Hindus*, CC and Company Ltd., Calcutta, (reprint).
- Sharma, R.S., 1996, *Aspect of Political Ideas & Institutions in Early India*, Motilal Banarsidass Delhi, (4th Edn.).
- Tripathi, R.P., 1989, *Some Aspects of Muslim Administration*, Central Book Depot, Allahabad.
- Verma, H.C., 1983, *Madhyakaleen Bharat (750-1540AD)*, Vol. I, Hindi Madhyam Karyanvayan Nideshalaya, University of Delhi.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/CC5 Course : History of Haryana (E.T. to 1526 A.D.)-1	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand the theme of regional history is explored through study of Haryana from stone age to independence of India.
CO2	Critically analyse the rise of various cultures are explored in the region of Haryana
CO3	Critically evaluate the efforts of the people of this region in the foreign invasions.
CO4	Critically analyse the rise of state formation and new power in the region of Haryana.

UNIT-1

Early Phase:

Sources of Ancient History of Haryana, The Stone Age, Harappan Civilization : General Features, Vedic Civilization : Origin and Development, Traditional History of the Kurus.

UNIT-2

Towards State Formation:

Origin and Development of Monarchy, Historicity of the Battle of Mahabharata, Yaudheyas, Agras and Kunindas, Pushpabhutis.

UNIT-3

Rise of New Powers:

Gurjara- Pratiharas, Tomaras, Chahmanas, The Battles of Tarain and their Impacts on Haryana.

UNIT-4

Sultanate Period:

Sources of Medieval History of Haryana, Haryana on the eve of Turkish Invasion, Delhi Sultanate and Haryana (1206-1526 A.D.), Revolts of Meos and Rajputs, Provincial Administration in Haryana (1206-1526 A.D.)

Suggested Reading :

- __ Glimpses of Haryana, Kurukshetra University, Kurukshetra, 1969.
- Buddha Prakash, *Haryana through the Ages*, Kurukshetra University, Kurukshetra, 1962.
- Das Gupta, K.K., *Tribal History of Ancient India*,
- Devahuti, D., *Harsha : A Political Study*, Oxford Clarendon Press, 1970.
- Dwivedi, H.N., *Dilli ke Tomar (736-1193)*, Vidya Mandir Prakashan, Gwalior, 1973.
- Goyal, J.B., (ed.), *Haryana-Puratattna, Itihas, Sanskriti, Sahitya evom Lokwarta*, Delhi, 1966.

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- Gupta, S.P. & Rama & Chandran, K.S., *Mahabharata: Myth and Reality*, Agam Prakashan, New Delhi, 1976.
- Phadke, H.A., *Haryana: Ancient and Medieval*, Harman Publication House, New Delhi, 1990.
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- Puri, B.N., *History of Gurjar-Pratiharas*, Munshiram Manoharlal, New Delhi, 1968.
- Sen, S.P. (Ed.), *Sources of the History of India, Vol. II*, Munshiram Manoharlal, New Delhi, 1979.
- Sharda, Sadhu Ram, *Haryana-Ek Sanskritik Adyayan*, Bhasha Vibhag, Haryana, Chandigarh, 1978.
- Sharma, D., *Early History of Chahamanas*, Delhi, 1959.
- Singh, Fauja (ed.), *History of the Punjab, Vol. I-III*, Publication Bureau, Punjab University, Patiala, 1997-2000.
- Suraj Bhan, *Excavations at Mithathal (1968) and other Explorations in Satluj Yamuna Divide*, Kurukshetra University, Kurukshetra, 1975.
- Tripathi, R.S., *History of Kanauj*, Munshiram Manoharlal, New Delhi, 1964.
- Yadav, K.C., *Haryana: Itihas evom Sanskriti, Part 1 & 2*, Manohar Publisher, New Delhi, 1994 (2nd Ed.)

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC1 Course : The Archive and Its Management (at World & National Archives of India)-1	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).
2. A study tour/trip in any Archive.

Course Outcomes :

CO1	Read seminal Historiographical interventions on critically reading the Archive.
CO2	Appreciate the importance of understanding the Archive not as a Neutral Repository of data but as knowledge, embedded in value laden power relations.
CO3	Understand the relationship between History and memory with a particular focus on institutions and practices of national commemoration and remembrance.
CO4	Understand the importance of non-documentary Archives by focusing on photography as an example of Visual Sources used by Historians.

UNIT-1

Reading and Understanding the Archive, History of Archival Legislation at World Level, International Organization of Archives,

History of Archives at: a) World b) India.

UNIT-2

National Archive of India: History, Record Repositories, Research & Facilities, Regional Offices of NAI and their Record Holdings Finding Aids at Archives, Security of Archives and its Holding, Principles of Archive Mangement.

UNIT-3

Difference between Museum and Archive, Process of Maintaining Archival Heritage at National Archives of India, Change of Sovereignty and its Impact on Archives,

Practices at N.A.I.: Archives Management, Record Management, Reprography, Conservation and ICT Practices (Practical)

UNIT-4

Difference between Archives and Library, Cataloguing and arrangement at Libraries, Difference between Museum and Library. **Ministry of Culture of India and its sub-department:** National Archives of India, National Museum & other museums, IGNC, N.M.M.L., Archaeological Survey of India.

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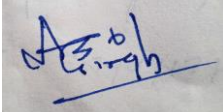
Suggested Reading:

- Basu, Purnendu, *Archives and Records: What are they ?* NAI Publication
- Bhargava, K.D., *An Introduction to National Archives of India*, NAI Publication
- Caroline Brown, 2014, *Archives and Recordkeeping Theory into practice*, Facet Publishing.
- Cook, Michael, *Archives Administration*, NAI Publication
- Foucault, Michel, (2002), *The Archeology of Knowledge*, London and New York: Routledge.
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- Le Goff, Jacques, (1977), *History and Memory*, New York: Columbia University Press.
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- Richard J. Cox; David A., 2002, *Archives and the Public Good: Accountability and Records in Modern Society*, Wallace Quorum Books.
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- David Thomas, Simon Fowler, Valerie Johnson, Anne J. Gilliland 2017, *The Silence of the Archive*, Facet Publishing.
- Trouillot, Michel Rolph., (1995), *Silencing the Past: Power and the Production of History*, London: Beacon Press.
- White, Hayden, (1980), *The Value of Narrativity in the Representation of Reality. Critical Inquiry*, 7(1), pp. 5-27.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC2 Course : Basics of Information and Technology (ICT)-1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> Nine questions will be set in all and students will be required to attempt 5 questions. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes :		
CO1	Understand the basic operating of computer and its various Software process.	
CO2	Understand the importance of computer in their study as well as their research field too.	
CO3	Unpack the complexities in the day by day Technical problem.	
CO4	Understand the Hardware components of Computer & the History of Computer.	
UNIT-1		
Computer System, An Overview: Hardware & Software, Applications of Computers in Different Fields, Characteristics of Computer		
UNIT-2		
MS Windows: Features of Windows, Getting Started with Windows, Managing Files and Folders		
UNIT-3		
Introduction to MS Office: Creating Document, How to Type in Word, Editing Document, Formatting the Document, Spell Check, Creating Tables, Saving the Document, Printing and Closing the Document		
Introduction to MS-Excel: Creating Document, Basics, Editing Cell Contents, Command for Worksheet, Charts in MS Excel		
UNIT-4		
Introduction to MS Power Point: Steps to Power Point Presentation, Physical Aspects of a Presentation, Creating New Presentation, Adding New Slides, Adding Illustration to Slides, Creating Slide Shows		
ICT Act 2000		
Suggested Reading: <ul style="list-style-type: none"> Balamurali,S.(1998), <i>An Introduction to Computer Science</i>, New Delhi: Vikas Publishing House. Lean and Loen,(1998), <i>Internet for Everyone</i>, New Delhi: Vikas Publishing House. Mattelart, Armond, <i>The Information Society</i>, New (2003) Delhi: Sage Publications Saxena, Sanjay,(1998), <i>A First Course in computer</i>, New Delhi: Vkas Publishing House. Singhal, A. and E.M. Rogers(2000), <i>India's Communication Revolution</i>, London: Sage Publications. 		

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC3 Course : Tourism Industry and Art and Architecture (E.T. to 1200AD)-1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes :		
CO1	Be familiar with the major developments in Sculpture, Painting and Architecture during the early period of Indian history	
CO2	Understand the nomenclature- stylistic, dynastic and regional that is used to denote certain time periods and art production related to these.	
CO3	Able to trace the intertwined nature of art, religion and society in the period.	
CO4	Able to Understand the carrier possibilities in Tourism Industry through the Art and Architecture.	
UNIT-1		
Tourism Industry: Meaning, Area, History and Carrier Possibilities, Scope and Nature of Tourism in: a) Indian Art b) Architecture, Understanding and Interpretations of the Indian Art forms and Architecture & Monuments		
UNIT-2		
Pre Historic Tool Techniques Art, Pre-Historic Rock-art and Paintings, Art and Architecture of the Harappan Civilization: Urban Planning and Architecture, Seals, Bronzes, Pottery.		
UNIT-3		
Megalithic Culture's Architecture, Stupas, Chaityas and Viharas: their Architectural features (Select case studies from Bhurhut, Sanchi, Amaravati), Temple Structure: a) North Indian Temples b) South Indian Temples		
UNIT-4		
Architecture under the Sultanate: Mamluk, Khalji, Tughlaq, Sayyid and Lodi Dynasties, Mehrauli Archaeological Park and Its Historic Buildings, Regional Architecture – Vijayanagar and Sharqi		

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Suggested Reading:

- Barlingay, S.S., 2007, *A Modern Introduction to Indian Aesthetic Theory: The development from Bharata to Jagannatha*, New Delhi: D.K. Printworld.
- Berkson, Carmel, Wendy Doniger O'Flaherty, George Michell, 1983, *Elephanta, the Cave of Shiva*, Princeton University Press.
- Coomaraswamy, A.K., 1956, *The Transformation of Nature in Art*, New York: Dover Publications (also 2004 reprint of 1934 edn, Munshiram Manoharlal).
- Dehejia, Vidya, *Unseen Presence: The Buddha at Sanchi*, Marg Publications.
- Ghosh A. ed., 1996 (reprint of 1967), *Ajanta Murals*, New Delhi: Archaeological Survey of India.
- Gupte, R.S., 1972, *Iconography of the Hindus, Buddhists and Jains*, Bombay: D.B. Traporevala Sons and Co.
- Huntington, Susan L., 1985, *The Art of Ancient India*, New York and Tokyo: Weatherhill.
- Knox, Robert, 1993, *Amaravati: Buddhist Sculpture from the Great Stupa*, Dover Publications.
- Meister, M W ed., 1992, *Ananda Coomaraswamy: Essays in Early Indian Architecture*, New Delhi.
- Neumayer, Erwin, 2010, *Rock Art of India*, Oxford University Press.
- Ray, Niharranjan, 1974, *An Approach to Indian Art*, Chandigarh: Panjab University Publication Bureau.
- Schlingloff, Dieter, 1999, *Guide to the Ajanta Paintings: Narrative wall paintings*, Vol. 1, Delhi: Munshiram Manoharlal Pub.
- Settar, S. 2003, *Footprints of Artisans in Indian History: Some Reflections on Early Artisans of India*, Proceedings of the Indian History Congress, General President's Address, 64th session, Mysore, pp. 1-43.
- Shah, Priyabala, 1958, *Citrasutra of the Visnudharmottara Purana, third khanda*, Baroda.
- Singh, Upinder, 2009, *A History of Ancient and Early Medieval India: from the Stone Age to the 12th century*, Delhi: Pearson Longman.
- Spink, Walter, 2005-2007, *Ajanta: History and Development, Vols. I to V*, Leiden and Boston: Brill.
- Williams, Joanna G., 1982, *The Art of Gupta India: Empire and Province*, Princeton University Press.
- Willis, Michael, 2009, *The Archaeology of Hindu Ritual: Temples and the establishment of the gods*, Cambridge University Press.
- Zimmer, Heinrich., 1984, *Artistic Form and Yoga in the Sacred Images of India*, Princeton: Princeton University Press.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC4 Course : Record Management and its Practices-1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 2. A study tour/trip in any Archive/ Museum/ Library. 		
Course Outcomes :		
CO1	Understand the importance of the record and its management in Government offices as well as in Private Offices.	
CO2	Understand the need of Departmental Record Room and the duties of Departmental Record Officer.	
CO3	Understand the filing system in Govt. Institutions.	
CO4	Understand the classification of records and their management.	
UNIT-1		
Record Management: Definition of Record and Record Management, Why record management, History of Record Management in India (Ancient to Modern Era), Relevance and scope of Record Management at the World of Archives, Types/ Classification of Record and their Management, Management of Records: Creation to Disposition stages.		
UNIT-2		
Filing System in Offices, Forms Management in Offices, Audio-Visual Records and their Management, Departmental Record Room (DRR): Structure, Security and Implementation.		
UNIT-3		
Departmental Record Officer (DRO): Work & Duties at DRR, E-Records and their Management, Indexing of Records, Office Automation and its equipment.		
UNIT-4		
Record Centers: History, their establishment and their role in Archives Administration, Record Retention Schedule (RRS), Essentials & Precautions at Record Room, Challenges for Record Managers.		

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Suggested Reading:

- Cook Michael, 1996, *Management of Information from Archives*, England Grover Publishing Company.
- Fiorella Foscarini, Heather MacNeil, Gillian Oliver and Bonnie Mak, 2016, *Engaging with Records and Archives: Histories and Theories*, Facet Publishing.
- Geoffrey Yeo and Elizabeth Shepherd, 2002, *Records: a handbook of principles and practice*, Facet Publishing.
- Gillian Oliver and Fiorella Foscarini, 2014, *Records Management and Information Culture: Talking the People Problem*, Facet Publishing
- Judith Read- Smith and Norman F. Kallaus, 1996, *Records Management*, South Western Educational Publishing
- Norman A. Mooradian, 2018, *Ethics for Records and Information Management*, ALA Neal-Schuman.
- Patricia C. Franks, 2018, *Records and Information Management*, Second Edition ALA Neal-Schuman.
- Richard J. Cox, 2001, *Managing Records as Evidence and Information*, Quorum Books.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC5 Course : Environmental Issues and Their Management		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes :		
CO1	Examine the Environmental Issues in Historical context.	
CO2	Analyze the awareness of environment in various time zones of History.	
CO3	Evaluate environment issues and challenges of Pre-Colonial India.	
CO4	Construct environment awareness and its connection to contemporary issues.	
UNIT-1		
Studying Ecology & Environment: An Introduction: Nature-Human Interface, Indian Landscape, Sources of Study Environment and Early Societies; Resource Use and Human Societies, Hunting – Gathering		
UNIT-2		
Environment and Agricultural Societies: Origins of Agriculture, River Valley Civilization, Agricultural Diffusion and Regional Specificities Appropriation of Environment – Other Forms: Energy Resources, Water Resources, Forest Resources, Metal & Mineral Resources		
UNIT-3		
Indian Philosophy and Environment Man-Nature Relationship, Conservation Through Ages, Colonialism and Environment, Modern Understanding of Environment, Environmental Agenda		
UNIT-4		
Modern Concerns Resource Management: Forests, Resource Management: Water, Development and Environmental Concerns, Biodiversity, Environmental Resources and Patents		

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Suggested Reading:

- Aagarwal Anil, 1985 , *The State of India's Environment*, The Second Citizens' Report, Delhi.
- Carson, R., 2002 , *Silent Spring*, Houghton Mifflin Harcourt.
- David Arnold & Ramchandran Guha, 1990, *Nature, Culture, Imperialism*, Delhi.
- Gleeson, B. and Low, N., 1996, *Global Ethics and Environment*, London, Routledge.
- M. L. Sengupta, R., 1998, *Ecology and economics: An approach to sustainable Development*, Calcutta.
- Madhav Gadgil & Ramchandran Guha, 1990, *This Fissured Land: An Ecological History of India*, Delhi.
- Madhav Gadgil & Ramchandran Guha, 1995, *Ecology and Equity: The use & abuse of nature in contemporary India*, OUP.
- McCully, P., 2000, *Rivers no more: The environmental effects of Dams (pp. 29-64)*, Zed Books,.
- McNeill, John R., 1987, *Something New Under the Sun: An Environmental History of the Twentieth Century*, Delhi,.
- Rao, M.N. & Datta, A.K., 2003, *WasteWater Treatment*, Oxford and IBH Publishing Co. Pvt. Ltd,
- Rosencranz, A., Divan, S., 2001, *Environmental law and policy in India*, OUP
- Thapar, V., 2006, *Land of the Tiger: A Natural History of the Indian Subcontinent*, New Delhi.
- Wilson, E. O., 1987, *The Creation: An appeal to save life on earth*, New York: Norton.
- World Commission on Environment and Development.

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC6 Course : MOOC from SWAYAM Portal		Total Credits: 4 Time: Marks: External: Internal:
<u>Note: For The Paper Setter :</u>		
External:		
Internal:		
Course Outcomes :		
CO1		
CO2		
CO3		
CO4		
UNIT-1		
UNIT-2		
UNIT-3		
UNIT-4		

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/O9/OEC1 Course : History of Haryana (E.T. to 1526 A.D.)-1	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes:

CO1	Understand the theme of regional history is explored through study of Haryana from stone age to independence of India.
CO2	Critically analyse the rise of various cultures are explored in the region of Haryana
CO3	Critically evaluate the efforts of the people of this region in the foreign invasions.
CO4	Critically analyse the rise of state formation and new power in the region of Haryana.

UNIT-1

Early Phase:

Sources of Ancient History of Haryana, The Stone Age, Harappan Civilization : General Features, Vedic Civilization : Origin and Development, Traditional History of the Kurus.

UNIT-2

Towards State Formation:

Origin and Development of Monarchy, Historicity of the Battle of Mahabharata, Yaudheyas , Agras and Kunindas, Pushpabhutis

UNIT-3

Rise of New Powers:

Gurjara- Pratiharas, Tomaras, Chahmanas, The Battles of Tarain and their Impacts on Haryana,

UNIT-4

Sultanate Period:

Sources of Medieval History of Haryana, Haryana on the eve of Turkish Invasion, Revolts of Meos and Rajputs, Provincial Administration (1206-1526 A.D.)

Suggested Reading :

- __ *Glimpses of Haryana*, Kurukshetra University, Kurukshetra, 1969.
- Buddha Prakash, *Haryana through the Ages*, Kurukshetra University, Kurukshetra, 1962.
- Das Gupta, K.K., *Tribal History of Ancient India*,
- Devahuti, D., *Harsha : A Political Study*, Oxford Clarendon Press, 1970.
- Dwivedi, H.N., *Dilli ke Tomar (736-1193)*, Vidya Mandir Prakashan, Gwalior, 1973.
- Goyal, J.B., (ed.), *Haryana-Puratattna, Itihas, Sanskriti, Sahitya evom Lokwarta*, Delhi, 1966.

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- Gupta, S.P. & Rama & Chandran, K.S., *Mahabharata: Myth and Reality*, Agam Prakashan, New Delhi, 1976.
- Phadke, H.A., *Haryana: Ancient and Medieval*, Harman Publication House, New Delhi, 1990.
- Phogat, S.R., *Inscriptions of Haryana*, Kurukshetra University Kurukshetra, 1978.
- Puri, B.N., *History of Gurjar-Pratiharas*, Munshiram Manoharlal, New Delhi, 1968.
- Sen, S.P. (Ed.), *Sources of the History of India, Vol. II*, Munshiram Manoharlal, New Delhi, 1979.
- Sharda, Sadhu Ram, *Haryana-Ek Sanskritik Adyayan*, Bhasha Vibhag, Haryana, Chandigarh, 1978.
- Sharma, D., *Early History of Chahamanas*, Delhi, 1959.
- Singh, Fauja (ed.), *History of the Punjab, Vol. I-III*, Publication Bureau, Punjab University, Patiala, 1997-2000.
- Suraj Bhan, *Excavations at Mithathal (1968) and other Explorations in Satluj Yamuna Divide*, Kurukshetra University, Kurukshetra, 1975.
- Tripathi, R.S., *History of Kanauj*, Munshiram Manoharlal, New Delhi, 1964.
- Yadav, K.C., *Haryana: Itihas evom Sanskriti, Part 1 & 2*, Manohar Publisher, New Delhi, 1994 (2nd Ed.)

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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/O9/OEC2 Course : History of India (E.T. to 1526 A.D.)-1	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand the sources of Indian History and critically evaluate the knowledge of Stone Age in India.
CO2	Critically analysed the Indus Civilization, Vedic and Post-Vedic Civilization.
CO3	Critically analysed the rise of Magadha Empire and Political condition of India on the eve of Alexander's Invasion
CO4	Critically analysed the Turk invasions and transition from Ancient to Medieval Indian History.

UNIT-1

Sources of Ancient Indian History, Pre- Historic India, Harappan Civilization: Origins, Extent, Town Planning, Economy, Vedic Culture: Polity, Society, Religion

UNIT-2

Rise of Magada Empire, Religious Movements: Buddhism and Jainism, Mauryan Empire: Polity, Administration, Society, Economy, Gupta Empire: State, Administration, Society, Economy

UNIT-3

Pushyabhutis of Thanesar, Tri-Parties Struggle among Pratiharas, Palas and Rashtrakutas, Invasions of Mahmud Ghaznavi, Invasions Muhammad Ghori - Causes of Success and Impact

UNIT-4

Emergence of Delhi Sultanate: Mamluk, Khalji, Tuglaq, Saiyyed and Lodhi, Bahmani and Vijaynagar Kingdoms: Polity, Administration, Administration of Delhi Sultanate, Fall and Fragmentation of Delhi Sultanate

Suggested Reading :

- Allchin, B. and Allchin, F.R., *Rise of Civilization in India and Pakistan*, (Delhi : Select Book Services Syndicate, 1983)
- Ashraf, K.M., *Hindustan Ke Nivasiyon Ka Jivan Aur Paristhitiyan*, (Hindi)
- Ashraf, K.M., *Life and Conditions of the People of Hindustan*, (Delhi, 1965)
- Basham, A.L., *The Wonder That Was India*, (Mumbai, 1971)
- Basham, A.L., *The Wonder That Was India*, (Mumbai, Rupa, 1971)
- Brown, Percy, *Indian Architecture Vol. – 1* (Mumbai 1984) Burton, Stein Vijaya Nagar,

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Cambridge , 1989

- Burton, Stein, *History of India*, Oxford, New Delhi, 1998
- Burton, Stein, *Vijayanagar* (Cambridge , 1989)
- Chakrabarti, D.K., *India : An Archaeological History*,
- Dani, A.H., *Recent Archaeological Discoveries in Pakistan*, (Paris, UNESCO, 1998)
- Gopal, L., *Economic History of Northern India 700-1200*, (Delhi, 1989)
- Habib, Muhammad and Nizami, K.A., *Comprehensive History of India, Vol. V*, (Delhi, 1970)
- Harle J.C., *Art and Architecture of the Indian Subcontinent*, (Penguin, 1986)
- Harle, J.C., *Art and Architecture of the Indian Subcontinent*, (Penguin, 1986)
- Jackson, Peter, *The Delhi Sultanate*, (Cambridge, 2001)
- Jha, D.N. and Shrimali, K.M., *Prachin Bharat Ka Itihas*, (Delhi, 1990)
- Kasambi, D.D., *Prachin Bhartiya Sabhyata Evam Sanskriti*, (Hindi) (Delhi, Rajkamal)
- Kulke, H and Rothenmund, D., *History of India*, (London, 1998)
- Majumdar, R.C., *History and Culture of the Indian People, Vols. II, III, IV and V* (Mumbai Bharatiya Vidya Bhavan Series, 1970, 1979, 1980)
- Nilkanta Shastri K.A., *A History of South India From Pre-Historic Times to the Fall of Vijaynagar*, (Chennai, OUP, 1983)
- Panday, A.B., *Early Medieval India*, (Allahabad, 1970)
- Panday, Vimal Chander, *Prachin Bharat Ka Rajnatik Tatha Sanskritik Itihas, Bhag - 2* (Hindi) (Allahabad, 1994)
- Rizvi, S.A.A, *The Wonder That Was India, Vol. 2*, (London 1987)
- Satish Chandra, *Madhya Kalin Bharat : Rajniti, Samaj Aur Sanskriti (Hindi)*, (Delhi, 2007)
- Satish Chandra, *Medieval India from the Sultanate to the Mughals*, (Delhi, 1997)
- Sharma, R.S., *Aspects of Political Ideas and Institution in Ancient India*, (Delhi, Motilal Banarsidas, 1991)
- Sharma, R.S., *Aspects of Political Ideas and Institutions in Ancient India*, (Delhi, 1991)
- Shastri, K.A. Nilkanta, *A History of South India From Pre-Historic Times to the Fall of Vijaynagar*, (Chennai, 1983)
- Thapar, B.K., *Recent Archaeological Discoveries in India*, (Paris, UNESCO, 1985)
- Thapar, Romila, *A History of India, Vol. I*, Pelican, 1966
- Thapar, Romila, *Aarambhik Bharat Ka Itihas*, (Delhi, Rajkamal)
- Thapar, Romila, *From Lineage to State : Social Formations in the Mid-first Millennium BC in the Ganga Valley*, Bombay : Oxford, 1984.

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M.A. History & Archaeology 2nd Semester Course Code : MA/H&A/2/CC6 Course : Ancient Societies-2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes:		
CO1	Critically evaluate the development of human society and various cultures from Stone age to Iron age, world wide phenomenon.	
CO2	Critically discuss major cultural structures, events and than shaping the world context.	
CO3	Evaluate and analyze different sources (particularly archaeological) in overseas.	
CO4	Critically evaluate the concept the decline of different civilizations and concept of relation of civilizations to each other.	
UNIT-1		
Iron Age Cultures in India: The beginning of Iron Age in India: Problems and Issues; Megalithic Culture of India : Origin, Distribution, Typology and Material Culture; Painted Grey Ware Culture : Distribution, Material remains; Second Urbanization.		
UNIT-2		
Iron Age Culture in Greece: Early Civilization in the Aegean; Greek City States (Athens and Sparta): Political, Social and Economic Life, Greeco-Persian Wars, Peloponnesian Wars; The Athenian Empire, Athenian Democracy, Contribution of Greek Civilization.		
Iron Age Culture in Rome: Roman Republic and Empire: Social and Economic Life; Science & Technology; Decline of Rome; Contribution of Roman Civilization.		
UNIT-3		
Indian State and Society (Vedic Times to Gupta Period): The Vedic Age: Society, State Structure, Economy, Religion; The Age of Reason and Revolt : Jainism and Buddhism; Agrarian Empires (Mauryan and Gupta): Society and Economy.		
UNIT-4		
Indian State and Society in Post Gupta Period: Urban Decay in India; Decline of Trade; Origin and Development of Feudalism in India; Nature of Indian Feudalism and Indian Feudal Debate.		

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Suggested Reading:

- Camp, John M., 1996, *Ancient Greece: From Prehistoric to Hellenistic Times*, Yale University Press.
- Goyal, Shriram, 1994, *Vishva ki Prachin Sabhyatayen*, Vishwavidyalaya Prakashan, Varanasi.
- Gupta, P.L. , 1979, *The Imperial Guptas: Cultural History*, Varanasi Vishwavidyalaya Prakashan.
- Jha, D.N. , 1980, *Studies in Early Indian Economic History*, Anupma Publication.
- Korovkin, F. , 1982, (Tr. by Bhatt, B.P.), *Prachin Vishva Itihas ka Paricheya*, Peoples Publishing House, New Delhi.
- Kosambi, D.D. , 2009, *An Introduction to the Study of Indian History*, Popular Prakashan Pvt. Ltd., New Delhi (reprint)
- Majumdar, R.C. , 1996, *The Vedic Age of History and Culture of the Indian People*, Bhartiya Vidya Bhawan.
- Mortimer, C. , 1963, *The Fall of Rome : Can it be Explained?*, Holt, Rinehart and Winston.
- Pathak, S.M. , 1986, *Vishva Ki Prachin Sabhyataon ka Itihas*, Bihar Hindi Granth Academy, Patna.
- Ray, U. , 1922, *Vishva Sabhyataon ka Itihas*, Lok Bharti, Allahabad.
- Rhys, T.S. , 1989, *Buddhism : Its History and Literature*, New York.
- Runnels, Curtis and M.Priscila, 2001, *Greece Before History, An Archaeological Companion and Guide*, Stanford University Press.
- Sharma, R.S. , 2005, *Indian Feudalism*, Macmillian India Ltd., New Delhi (Hindi also)
- Sircar, D.C. , 1966, *Land System and Feudalism in Ancient India India*, Centre of Advance Study in Anceitn Indian History and Culture.
- Swain, James E., 1984, *A History of World Civilization*, Eurasia Publishing House, New Delhi (5th Edn. reprint).
- Thakur, V.K. , 1981, *Urbanization in Ancient India*, Abhinav Publications, New Delhi.
- Thapar, Romila, 1990, *History of India, Vol. I*, Penguin Press.

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M.A. History & Archaeology 2nd Semester Course Code : MA/H&A/2/CC7 Course : Medieval Societies-2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Critically evaluate the various developments in feudal Europe, Islamic World and Medieval World.	
CO2	Critically evaluate the concept the decline of feudalism and advent of capitalism.	
CO3	Critically analyze and describe the rise of Middle East, Identify and describe the emergence of the Arab Caliphate, the Umayyad dynasty and abbasid dynasty.	
CO4	Evaluate and analyze the different aspects of administrative units specially in Indian context.	
UNIT-1		
Characterizing Medieval World: Preceptions and Reality, Transition from Ancient to Medieval World: Emergence of Feudalism in Western Europe, Feudal Debate, Peaseants and Nobility, System, Serfdom, Collapse of Feudalism.		
UNIT-2		
Religion: Christianity, State, Church and Society, The Mediterranean world and the Crusades.		
UNIT-3		
Arab World and Rise of Islam & Caliphate, Arab Conquest of Central Asia, Medieval Persia and Safavids.		
UNIT-4		
Medieval China: Tang to Manchu Dynasty, Medieval Japan: Shogunates, Safavid, Ottoman and Mughal Empire.		
Suggested Reading: <ul style="list-style-type: none"> • Anderson, P. ,1996, <i>Passage from Antiquity to Feudalism</i>, New Left Books, London. • Arnold, T.W. , 1999, <i>The Caliphate</i>, Oxford University Press. • Bloch, Marc. H. , 1961, <i>Feudal Society, 2 Vols</i>, Chicago University Press, Chicago. • Hitti, P.K. ,1948, <i>The Arabs: A Short History</i>, Macmillan and Company, London. • Holt, Peter Malcolm and A.K. Lambton , 1970, <i>The Cambridge History of Islam, 2 Vols</i>, 		

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Cambridge University Press, Cambridge.

- Levy, R. , 1969, *Social Structure of Islam*, Cambridge University Press, New York.
- Mukhia, Harbans, 2003, *The Feudalism Debate*, Manohar Publishing House, Delhi (in Hindi also)
- Pirenne, Henri , 2006, *Economic and Social History of Medieval Europe*, Routledge.
- Postan, M.M. ,1970, *Medieval Trade and Commerce*, Cambridge University Press, Cambridge.
- White, Jr., Lynn, 1973, *Medieval Technology and Social Change*, Oxford University Press.

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M.A. History & Archaeology 2nd Semester Course Code : MA/H&A/2/CC8 Course : Modern World (Political Trends)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes :		
CO1	Understand the various socio-economic trends in modern period.	
CO2	Critically evaluate how the modern west was emerged through renaissance and other socioeconomic developments.	
CO3	Critically analyses the rise of capitalism and imperialism led all these developments.	
CO4	Explain and analyses the rise of new order in the world in the form of socialism and about the world crisis of 1919 and 1939 which led to world wars.	
UNIT-1		
American Revolution, French Revolution: Aims, Achievements, Impacts; Development of Liberalism in Britain; Civil War in America.		
UNIT-2		
Russian Revolution-1917: Causes, Events and Impacts, Formation of the USSR; Debates on socialism and the role of the Communist International (Comintern)		
Theories of Nationalism: Italy & Germany.		
UNIT-3		
First World War Causes and Impacts; Peace Settlement; League of Nations, Fascism in Italy, Nazism in Germany,		
Second World War Causes and Impacts; Cold War; Non-Alignment Movement.		
UNIT-4		
Modernity, Rights and Democracy: The suffragette movement (England), Anti-colonial struggles (Indonesia), The formation of the United Nations, Art and politics (Picasso)		

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Suggested Reading:

- Anthony D. , 1983, *Theories of nationalism*, New York.
- Anthony D. , 2000, *The Nation in History*, Oxford.
- Bhaskar, Arvind, 2021, *Vishav Itihas*, Orange Publication Sikar.
- Carr, E.H. , 1966, *The Bolshevik, Revolution*, Vol. I, Pelican publication.
- Chandra, Bipan , 1996, *Nationalism and Colonialism in India*, Delhi.
- Cipolla, C.M., 1976, *Fontana Economic History of Europe, Vol. III*, Delhi.
- Desai, A.R. , 2005, *Social Background of Indian Nationalism*, Delhi.
- Dobb, Maurice , 1974, *Studies in the Development of Capitalism*, OUP.
- Dutt, R.P. , 2008, *India Today*, Delhi.
- Emerson, Rupert , 2013, *From Empire to Nation: The Rise to Self Assertion of Asian and African People*, Harvard University Press
- Fairbank, John, K., 1965, *East Asia: Modern Transformation*, New York.
- Hilton, Rodney , 1976, *Transition from Feudalism to Capitalism*, OUP.
- Hobsbawen, E.J. , 1970, *Nation and Nationalism*, Cambridge.
- Johnson, Chatness, A. , 1962, *Peasant Nationalism and Communist Power: The Emergency of Red China 1937-1947*, New York.
- Joll, James , 2013, *Origin of the First World War*, Routledge.
- Lichtheim, George , 1976, *A Short-History of Socialism*, OUP.

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M.A. History & Archaeology 2nd Semester Course Code : MA/H&A/2/CC9 Course : State in India (Mughals to Modern Times)-2	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes:

CO1	Evaluate and analyze of institutional history that how the institution of state rises and develop in India.
CO2	Critically evaluate the nature of the state changes with the time and dynasty.
CO3	Analyze the emergence of the Mauryan and Gupta empires during the classical age in India.
CO4	Identify and analyze key facets of Indian Society and the rise of technology and commerce.

UNIT-1

The Mughal State:

Nature of Mughal State; The Sources of Legitimacy under the Mughals; Central Administration; Provincial Administration; Military Administration.

UNIT-2

Administrative Institutions:

Jagirdari System; Mansabdari System; Zamindari System.

UNIT-3

Colonial State:

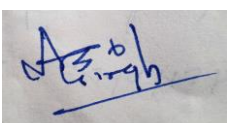
Political Economy; State Apparatus; Instruments of Legitimization.

UNIT-4

Independent India:

Constitutional Continuity; Constitutional Change; Visions of Modern Indian State: Nationalist; Communalist; Communist.

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Suggested Reading:

- Alam, Muzaffer ,2000, *The Mughal State*, Oxford.
- Anderson, Perry, 1987, *Lineages of the Absolutist State*, Cambridge.
- Athar, M. Ali, 1966, *The Mughal Nobility under Aurangazeb*, Asia Publishing
- Banerjee S.N., 2016, *A Nation in Making*, Kolkata.
- Chandra Satish, 1987, *Parties and Politics at the Mughal Court (1707-1747AD)*, Haranand.
- Day, U.N., 1994, *The Mughal Government*, New Delhi.
- Dodwell, H.H. (ed.) , 1990, *Cambridge History of India, Vol. V and VI*, Oxford Press.
- Douglas, Strensand, 1989, *The Formation of the Mughal Empire*, Oxford University
- Habib, Irfan, 2003, *Madhyakaleen Bharat. Vol. I to VIII*, Rajkamal prakashan, Delhi.
- Qureshi, I.H., 1966, *The Administration of the Mughal Empire*, Karachi.
- Richards, J.F., 1978, *Kingship and Authority in South Asia*, Modison.
- Saran, P. ,1988, *Provincial Govt. of the Mughals*, Delhi.
- Sutherland, L.,1952, *East India Company and the State*, Penguin Books.
- Verma, H.C.,1983, *Madhyakaleen Bharat, vols. 1& 2*, Hindi Madhyam Karyanvayan Nideshalaya University of Delhi.

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M.A. History & Archaeology 2nd Semester Course Code : MA/H&A/4/CC10 Course : History of Haryana (C. 1526 to 1947 A.D.)-2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> Nine questions will be set in all and students will be required to attempt 5 questions. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes:		
CO1	Understand the theme of regional history is explored through study of Haryana from Mughal to independence of India.	
CO2	Critically evaluate the efforts of the people of this region in the foreign invasions.	
CO3	Critically analyse the rise of state formation and new power in the region of Haryana.	
CO4	Evaluate and analyze the different aspects of Mughal to modern administrative units.	
UNIT-1		
Mughal Period: First and Second Battle of Panipat, Hemu's Life & Achievements; Revolt of Satnamis; Paragana Administration; Economy – Land Revenue System; Irrigation System; Bhakti and Sufi Movements.		
UNIT-2		
Politico-Religious Developments: Marathas Incursion; George Thomas; Sikh Intrusion; Arya Samaj; Sanatan Dharma Sabha; Development of Education & Literature.		
UNIT-3		
Political Movements: Revolt of 1857: Causes, events, nature & effects; Rise of Nationalism; Political Condition (1885-1919); Unionist Party and Sir Chhotu Ram.		
UNIT-4		
Gandhian Movements: Non-Cooperation; Civil Disobedience; Quit India Movement; Praja Mandal Movement.		
Suggested Reading: <ul style="list-style-type: none"> _____ <i>Revolt of 1857 in Haryana</i>, Manohar Publication, New Delhi Ashraf, K.M. , 1983, <i>Life and Conditions of the People of Hindustan</i>, Pearl Publication, Calcutta. 		

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- Datta, Nonica, , 1999, *Formation of an Identity : A Social History of Jats*, Oxford University Press, New York.
- Gupta, H.R., *The Marathas and Battle of Panipat*, New Delhi.
- Irfan, Habib ,1982, *Cambridge Economic History of India*, Cambridge University Press, Cambridge.
- Jagdish, Chander , 1982, *Freedom Struggle in Haryana*, Vishal Publication, Kurukshetra.
- Kenneth, W. Jones, *Arya Dharam*, Manohar Book Service, New Delhi.
- Mittal, S.C. , 1986, *Haryana: A Historical Perspective*, New Delhi.
- Phadke, H.A. , 1990, *Haryana: Ancient and Medieval*, Harman Publication, Delhi.
- Prem Chaudhary, 1985, *Punjab Politics: The Role of Sir Chhotu Ram*, Vikas Publishing House, New Delhi.
- Ranjeet Singh , 1966 , *Haryana ke Arya Samaj ka Itihas*, Rohtak (in Hindi)
- S.P. Shukla (ed.) , 1985, *Freedom Struggle in Haryana and the Congress, 1885-1985*, Published by Haryana Pradesh Congress (I) Committee.
- Shukla, S.P. , 1985, *India's Freedom Struggle and Role of Haryana*, Criterion Publication.
- Verma, D.C. , 1981, *Sir Chhotu Ram : His Life and Times*, Sterling Publication, New Delhi.
- Yadav, K.C. , 1975, *Rao Tula Ram and Revolt of 1857*, S. Parmod and Co. Jalandhar City.

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /2/ SEC7 Course : Archive and Its Management (at State Archives and Private Sector Archives)-2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Understand the State Archives and their Record Holdings.	
CO2	Understand the relationship between History and memory with a particular focus on institutions and practices of national commemoration and remembrance.	
CO3	Understand the importance of non-documentary Archives by focusing on photography as an example of Visual Sources used by Historians.	
CO4	Makes a clear vision between National Archives, State Archives and Private Archives.	
UNIT-1		
State Archives: Record Holdings, Repositories and Archive Management procedure of Haryana, Hyderabad, Uttar Pradesh, Punjab, Rajasthan, Delhi.		
UNIT-2		
Private Archives: An introduction to Private Archives, Private Archives at NAI, Acquisition and Accession Policy of Private Records; Access and Servicing of Private Records; Oriental Records or OR Division at National Archives of India.		
UNIT-3		
Accession and Arrangement of Business & Private Archives and their Uses; Microfilming practices of Private Record; The importance of Business & Private Archives for economic development and research; Finding Aids at Archives.		
UNIT-4		
Business Archives: Introduction to Business Archives; Business Archives in India i.e. TATA, SBI, Godredge, RBI etc; Types of Business Archives; Records Management in Business Houses from current to non-current stage. National Film Archives of Pune.		

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Suggested Reading:

- Basu, Purnendu, *Archives and Records: What are they?* NAI Publication
- Bhargava, K.D., *An Introduction to National Archives of India*, NAI Publication
- Caroline Brown, 2014, *Archives and Record keeping Theory into practice*, Facet Publishing.
- Cook, Michael, *Archives Administration*, NAI Publication.

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /2/ SEC8 Course : Information and Technology (ICT) and Contemporary World		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Understand the ICT and its importance in contemporary world.	
CO2	Understand the importance of ICT in their study as well as their research field too.	
CO3	Unpack the complexities in the day by day Technical problem.	
CO4	Understand the recent development in the field of ICT at world level.	
UNIT-1		
Functioning of Computers and Functional Components of a Computer System; History of Computer & its Generations; Benefits and Limitations of Computers.		
UNIT-2		
Basic Windows Accessories: Mouse Pointer, Control Panel , Creating Short Cuts; Shutting Down the Computer; Cyber Crime and Security of Digital Data; Computer Viruses.		
UNIT-3		
Classification of Computer; Operating System; User Interface & Number System.		
UNIT-4		
Email: Logging in and logging out; Attachments; Receiving and Sending E-mail.		
Suggested Reading: <ul style="list-style-type: none"> • Balamurali,S.(1998), An Introduction to Computer Science, New Delhi: Vikas Publishing House. • Lean and Loen,(1998), Internet for Everyone, New Delhi: Vikas Publishing House. • Mattelart, Armond, The Information Society New (2003) Delhi: Sage Publications • Saxena, Sanjay,(1998), A First Course in computer, New Delhi: Vkas Publishing House. • Singhal, A. and E.M. Rogers(2000), India's Communication Revolution, London: Sage Publications. 		

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /2/ SEC9 Course : Tourism Industry and Art and Architecture (Mughals to Modern Times)- 2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter:</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).		
Course Outcomes:		
CO1	Understand the diversification in the area of Art and Architecture.	
CO2	Understand the nomenclature- stylistic, dynastic and regional that is used to denote certain time periods and art production related to these.	
CO3	Interpretation of Indian cultural past through the Art and Architecture.	
CO4	Able to Understand the carrier possibilities in Tourism Industry through the Art and Architecture.	
UNIT-1		
Indian Textiles: Centers of Productions, Patterns of Trade and Distribution; Role of State, Position of Artisans and Merchants.		
UNIT-2		
Fine Arts: Major Schools of Paintings: Mughal, Rajasthani, Pahari, Garhwali; Development of Music.		
UNIT-3		
Mughal Architecture: Mosques, Tombs, Forts, Palaces, Public and Utilitarian Buildings, Gardens; City/ Building Planning and use of Science in the Mughal Architecture at : Fatehpur Sikri, Agra and Sahjahanabad.		
UNIT-4		
Indo-Saracenic Architecture: Origin, characteristics and major construction; Neo- Classical Architecture, Romanesque-Italianate, Art Deco and Post Independence style of Architecture.		
Suggested Reading : <ul style="list-style-type: none"> • Barlingay, S.S., 2007, <i>A Modern Introduction to Indian Aesthetic Theory: The development from Bharata to Jagannatha</i>, New Delhi: D.K. Printworld. • Berkson, Carmel, Wendy Doniger O'Flaherty, George Michell, 1983. <i>Elephanta, the Cave of Shiva</i>, Princeton University Press. • Coomaraswamy, A.K., 1956, <i>The Transformation of Nature in Art</i>, New York: Dover Publications (also 2004 reprint of 1934 edn, Munshiram Manoharlal). • Dehejia, Vidya, <i>Unseen Presence: The Buddha at Sanchi</i>, Marg Publications. 		

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- Ghosh A. ed., 1996 (reprint of 1967), *Ajanta Murals*, New Delhi: Archaeological Survey of India.
- Gupte, R.S., 1972, *Iconography of the Hindus, Buddhists and Jains*, Bombay: D.B. Traporevala Sons and Co.
- Huntington, Susan L., 1985, *The Art of Ancient India*, New York and Tokyo: Weatherhill.
- Knox, Robert, 1993, *Amaravati: Buddhist Sculpture from the Great Stupa*, Dover Publications.
- Meister, M W ed., 1992, *Ananda Coomaraswamy: Essays in Early Indian Architecture*, New Delhi.
- Neumayer, Erwin, 2010, *Rock Art of India*, Oxford University Press.
- Ray, Niharranjan, 1974, *An Approach to Indian Art*, Chandigarh: Panjab University Publication Bureau.
- Schlingloff, Dieter, 1999, *Guide to the Ajanta Paintings: Narrative wall paintings, Vol. I*, Delhi: Munshiram Manoharlal Pub.
- Settar, S. 2003, *Footprints of Artisans in Indian History: Some Reflections on Early Artisans of India*, Proceedings of the Indian History Congress, General President's Address, 64th session, Mysore, pp. 1-43.
- Shah, Priyabala, ed., 1958, *Citrasutra of the Visnudharmottara Purana, third khanda*, Baroda.
- Singh, Upinder, 2009, *A History of Ancient and Early Medieval India: from the Stone Age to the 12th century*, Delhi: Pearson Longman.
- Spink, Walter, 2005-2007, *Ajanta: History and Development, Vols. I to V*, Leiden and Boston: Brill.
- Williams, Joanna G., 1982, *The Art of Gupta India: Empire and Province*, Princeton University Press.
- Willis, Michael, 2009, *The Archaeology of Hindu Ritual: Temples and the establishment of the gods*, Cambridge University Press.
- Zimmer, Heinrich., 1984, *Artistic Form and Yoga in the Sacred Images of India*, Princeton: Princeton University Press.

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /2/ SEC10 Course : Record Management and Its Conservation		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter:</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Understand the importance of the record and its management in Government offices as well as in Private Offices.	
CO2	Understand the Process of Conservation in Record Management.	
CO3	Understand the importance of Course record as well as digital record/E-record.	
CO4	Understand the challenges in the work of record management and its conservation.	
UNIT-1		
Record Management Practices Under the Government of India; Appraisal of the Record; Finding Aids; Special Type of Archives.		
UNIT-2		
Intellectual Property Rights (IPR); Intrinsic Value in Archival Material; Oral Records and their management; Principle of Arrangement of Record (International & India).		
UNIT-3		
Conservation: Conservation : Meaning, need and its History; Conservation Process: a) Conservation b) Preservation c) Restoration; Factors of deterioration of Record; Precautions before Conservation.		
UNIT-4		
Writing material through the ages; Stationary Material & Tools and Accessories used in Repair Processes; Conservation Lab in Archives and their Importance; Repair Process.		

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Suggested Reading:

- Cook Michael, 1996, *Management of Information from Archives*, England Grover Publishing Company.
- Fiorella Foscarini, Heather MacNeil, Gillian Oliver and Bonnie Mak, 2016, *Engaging with Records and Archives: Histories and Theories*, Facet Publishing.
- Geoffrey Yeo and Elizabeth Shepherd, 2002, *Records: a handbook of principles and practice*, Facet Publishing.
- Gillian Oliver and Fiorella Foscarini, 2014, *Records Management and Information Culture: Talking the People Problem*, Facet Publishing
- Judith Read- Smith and Norman F. Kallaus, 1996, *Records Management*, South Western Educational Publishing
- Norman A. Mooradian, 2018, *Ethics for Records and Information Management*, ALA Neal-Schuman.
- Patricia C. Franks, 2018, *Records and Information Management*, Second Edition ALA Neal-Schuman.
- Richard J. Cox, 2001, *Managing Records as Evidence and Information*, Quorum Books.

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /2/ SEC11 Course : Communication and Behavior Skills	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Understand the various Communication and Behaviour Skills.
CO2	Understand the importance Communication skills in Government offices as well as in Private Offices.
CO3	Demonstrate knowledge of various methods of communication.
CO4	Able to developed their Skills and as well as personality too.

UNIT-1

Communication Skills : Meaning, Process and Elements; Importance of Communication skills; Elements of Communication cycle: a) Sender b) Ideas c) Encoding d) Communication Channel e) Receiver f) Decoding g) Feedback; Methods of Communication. a) Verbal b) Non-verbal c) Visual.

UNIT-2

Perspectives in Communication; Factors affecting perspectives in Communication: a) Visual perception b) Language c) Past experience d) Prejudices e) Feelings f) Environment; Listening Skills; Barriers of Communication.

UNIT-3

Communication Skills: Meaning, Process and Elements; Importance of Communication skills; Barriers of Behaviour skills; Behaviour Skills Training Method.

UNIT-4

Teaching-Learning Process and Behaviour skills; Effective Teaching and Behaviour skills; Effective Learning and Behaviour skills; Behavioural Skills and Leadership.

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Suggested Reading:

- Barkhuysen, P., Krahmer, E., Swerts, M., (2004) *Audiovisual Perception of Communication Problems*, ISCA Archive <http://www.isca-speech.org/archive>
- Barnlund, D.C., (2008), *A transactional model of communication*, New Brunswick, New Jersey: Transaction
- Danesi, Marcel, (2009), *Dictionary of Media and Communications*, M.E.Sharpe, Armonk, New York.
- Fiske, John, (1982), *Introduction to Communication Studies*, London: Routledge
- Hayes, Andrew F., (31 May 2005), *Statistical Methods for Communication Science*, Taylor & Francis.
- Reddy, Michael J., (1979), *The Conduit Metaphor -A Case of Frame Conflict in our Language about Language*, In *Metaphor and Thought*, Andrew Ortony, ed. Cambridge
- Robbins, S., Judge, T., Millett, B., & Boyle, M., (2011), *Organisational Behaviour*, 6th ed. Pearson, French's Forest, NSW
- Rommetveit, Ragnar (1974), *On Message Structure: A Framework for the Study of Language and Communication*, London: John Wiley & Sons
- Schramm, W. (1954), *How communication works*. In W. Schramm (Ed.), *The process and effects of communication* (pp. 3–26), Urbana, Illinois: University of Illinois Press.
- Shannon, C.E., & Weaver, W., (1949), *The mathematical theory of communication*, Urbana, Illinois: University of Illinois Press
- Shannon, Claude E. & Warren Weaver, (1949), *A Mathematical Model of Communication*, Urbana, IL: University of Illinois Press
- Trenholm, Sarah; Jensen, Arthur, (2013), *Interpersonal Communication*, Seventh Edition. New York: Oxford University Press.
- Turner, L.H., & West, R.L., (2013), *Perspectives on family communication*, Boston: McGraw-Hill.

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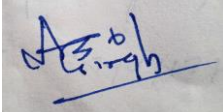
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M.A. History & Archaeology 1st Semester Course Code : MA/H&A/1/SEC12 Course : MOOC from SWAYAM Portal		Total Credits: 4 Time: Marks: External: Internal:
<u>Note: For The Paper Setter :</u>		
External:		
Internal:		
Course Outcomes :		
CO1		
CO2		
CO3		
CO4		
UNIT-1		
UNIT-2		
UNIT-3		
UNIT-4		

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /E9/ OEC3 Course: History of Haryana (C. 1526 to 1947 A.D.)-2		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter:</u>		
External: <ol style="list-style-type: none"> Nine questions will be set in all and students will be required to attempt 5 questions. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).. 		
Course Outcomes:		
CO1	Understand the theme of regional history is explored through study of Haryana from Mughal to independence of India.	
CO2	Critically evaluate the efforts of the people of this region in the foreign invasions.	
CO3	Critically analyses the rise of state formation and new power in the region of Haryana.	
CO4	Evaluate and analyze the different aspects of Mughal to modern administrative units.	
UNIT-1		
Mughal Period: First and Second Battle of Panipat, Hemu's Life & Achievements; Revolt of Satnamis; Paragana Administration; Economy– Land Revenue System; Irrigation System; Bhakti and Sufi Movements		
UNIT-2		
Politico-Religious Developments: Marathas Incursion; George Thomas; Sikh Intrusion; Arya Samaj; Sanatan Dharma Sabha; Development of Education & Literature.		
UNIT-3		
Political Movements: Revolt of 1857: Causes, events, nature & effects; Rise of Nationalism; Political Condition (1885-1919); Unionist Party and Sir Chhotu Ram.		
UNIT-4		
Gandhian Movements: Non-Cooperation; Civil Disobedience; Quit India Movement; Praja Mandal Movement.		

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Suggested Reading:

- _____ *Revolt of 1857 in Haryana*, Manohar Publication, New Delhi
- Ashraf, K.M. , 1983, *Life and Conditions of the People of Hindustan*, Pearl Publication, Calcutta.
- Datta, Nonica, , 1999, *Formation of an Identity : A Social History of Jats*, Oxford University Press, New York.
- Gupta, H.R., *The Marathas and Battle of Panipat*, New Delhi.
- Irfan, Habib ,1982, *Cambridge Economic History of India*, Cambridge University Press, Cambridge.
- Jagdish, Chander , 1982, *Freedom Struggle in Haryana*, Vishal Publication, Kurukshetra.
- Kenneth, W. Jones, *Arya Dharam*, Manohar Book Service, New Delhi.
- Mittal, S.C. , 1986, *Haryana: A Historical Perspective*, New Delhi.
- Phadke, H.A. , 1990, *Haryana: Ancient and Medieval*, Harman Publication, Delhi.
- Prem Chaudhary, 1985, *Punjab Politics: The Role of Sir Chhotu Ram*, Vikas Publishing House, New Delhi.
- Ranjeet Singh , 1966 , *Haryana ke Arya Samaj ka Itihas*, Rohtak (in Hindi)
- S.P. Shukla (ed.) , 1985, *Freedom Struggle in Haryana and the Congress, 1885-1985*, Published by Haryana Pradesh Congress (I) Committee.
- Shukla, S.P. , 1985, *India's Freedom Struggle and Role of Haryana*, Criterion Publication.
- Verma, D.C. , 1981, *Sir Chhotu Ram : His Life and Times*, Sterling Publication, New Delhi.
- Yadav, K.C. , 1975, *Rao Tula Ram and Revolt of 1857*, S. Parmod and Co. Jalandhar City.

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M.A. History & Archaeology 2nd Semester Course Code : MA/ H&A /E9/ OEC4 Course: History of India (1526 A.D. to 1947 A.D.) - 2	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes:

CO1	Understand about the, Impact of Turkish Conquests, rise of Mughal and fall of Mughal State.
CO2	Critically analysis the conquest and expansion of Mughals and amylases their political, social, economical and cultural phenomena.
CO3	Understand the Pre- Colonial Rule and Establishment of the British power.
CO4	Understand about the Indian Nationalism, Indian National congress and Indian National Movement.

UNIT-1

Mughal Dynasty: Babar to Aurangzeb (1526-1707 A.D.); Administration of Mughals; Bhakti Movement; Sufism : Major Silsilas in India.

UNIT-2

Decline of the Mughal Emire; 18th Century in Indian History; Battle of Plassey; Battle of Buxar.

UNIT-3

The Revolt of 1857; Rise of Indian Nationalism; Indian National Congress; Jalia Wala Bagh Incident and Khilafat Movement.

UNIT-4

Gandhian Movement's : Non-Cooperation, Civil Disobedience, Quit India Movement; Indian Revolutionary : Bhagat Singh and HSRA; Partition of India; Making of Indian Constitution.

Suggested Reading:

- Bayly, Susan, *Caste Society and Politics in India: The New Cambridge History of India*, OUP.
- Mishra, Girish, *Economic History of Modern India*, ICHR Publication.
- Mittal, S.C., *Bharat Ka Saamajik aur Aarthik Itihas (1758-1947)*, Munshiram Manoharlal.
- Nanda, B.R., *Jawaharlal Nehru : A Biography*, Penguin.

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- Nurullah, S. & J.P., *Naik History of Education in India*, HarAnand
- Omvedt, Gail, *Dalits and Democratic Revolution : Dr. Ambedkar and Dalit Movement in Colonial India*,
- Rai, Satya M.(ed.), *Bharat Mein Upniveshwad Aur Rashtrawad*, Orient Blackswan (Hindi)
- Raychaudhuri, Tapan and Irfan Habib, *The Cambridge Economic History of India, Vol. I*, Cambridge University Press.
- Sen, Sunil, K., *Agrarian Relations in India, 1793-1947*, OUP.
- Shukla, R.L. (ed.), *Adhunik Bharat Ka Itihas*, Hindi Madhyam Karyalaya Anveshan (Hindi,)
- Sarkar Sumit, *Aadhunik Bharat*, Rajkamal Parkashan

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A/3/CC11 Course: Historiography: Concepts, Methods & Tools-1	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes:

CO1	Developed their ability to assess critically historical analysis and argument, past and present.
CO2	Gained an understanding of the development of the academic study of history throughout the world since the later eighteenth century.
CO3	Gained an awareness of recent and contemporary debates in the theory, practice of historical writing and gained debate in history thinker.
CO4	Gained insight into how historical arguments have been and are made become aware of Historiographical traditions outside the West.

UNIT-1

History Definition and Scope

The Major Trends in History:- From the Earliest times to Positivism and Documented History, From Political/ Military to Social History, The New Trends : Post-modernism and Gender.

Some Major Thinkers on History

The Khaldun (1332-1406) , G.W.F. Hegal (1770-1831), Karl Marx (1818-83)

UNIT-2

Sources and their evaluation

Collection and Selection of Data, Kinds of evidence, External/ Internal Criticism of sources

Methodology

Generalization, Causation, Objectivity

UNIT-3

The Pre-modern Traditions of Historical Writing

A. Early Tradition

Greeco-Roman Traditions, Chinese Traditions, Ancient Traditions

B. Medieval Traditions

Western, Arabic & Persian, Indo-Persian

UNIT-4

History Writings and use of Literature (Selection of Data & Limitations), Historical Sources : Oral & Audio Visual Records, History and Allied Disciplines of Archaeology, Geography; Sociology, Anthropology; Psychology and Economics

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Suggested Reading:

- Alvesson Mats, 2002, *Postmodernism and Social Research*, OUP.
- Bentley, Michael, 1997, *Companion to Historiography*, London.
- Canon, John (ed.) , 1980, *The Historians at Work*, London.
- Carr, E.H. , 1983, *What is History*, Macmillan, London.
- Chaube, Jharkhande , 1999, *Itihaas - Darshan*, Delhi.
- Collingwood, R.G. , 2004, *The Idea of History*, OUP.
- Gardiner, Patrick (ed.) , 1969, *Theories of History*, New York.
- Hobsbawm, Eric J. , 2003, *Itihaskar ki Chinta*, Delhi.
- Hughes-Warrington-Marine , 2004, *Fifty Great Thinkers on History*, Delhi.
- Lambert, Peter and Phillip Scofield, 2004, *Making History An Introduction to the Practices of a Discipline*, Paris.
- Marwick, Arthur , 1984, *The Nature of History*, Macmillan, London.
- Marwick, Arthur, 2001, *New Nature of History: Knowledge, Evidence, Language*, London.
- Sheikh Ali, B. , 1978, *History: Its Theory and Method*, Macmillan, Madras.
- Sreedharan, E. (2004) , 2000, *A Textbook of Historiography 500 BC to AD 2000*, Delhi.
- Verma, Lal Bahadur, 1984, *Itihas Ke Bare Mein*, Delhi.

Ignou Booklets

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A/3/CC12 Course: Sources of Indian History (E.T. TO 1947 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).
2. A study tour/trip in any Archive/Museum.

Course Outcomes:

CO1	To provide information to the students about the archaeological evidence received from the ancient times like coins, weapons, tools and pots.
CO2	To provide knowledge of historical, literary and religious texts of ancient India.
CO3	To provide information to the students about sufficient historical critically sources and evidences of medieval India.
CO4	To provide information about the latest and sufficient evidence obtained from the British rule in India.

UNIT-1

Archaeological Sources:

Stone Tools, Pottery, Coins, Inscriptions, Manuscripts.

Literary Sources:

Vedic Literature, Epics, Puranas, Arthashastra, Buddhist and Jain Sources, Snagam Literature

UNIT-2

Biographical writings and Foreign Accounts:

Arthashastra, Harsacharita, Rajtaringini, Megasthenes, Huen-Tsang, Al-Beruni, Ibn Batuta, Francois Bernier

UNIT-3

Historians and Sources of Medieval India:

Minhaj-us-Siraj: Tabaqat-i-Nasiri, Ziauddin Barani: Fatwa-i-Jahandari, Ameer Khusarau, Babur: Tuzak-i-Baburi, Abul Fazal : Akbar Nama (3 Vols), Tuzak-i-Jahangiri, Muraqqa-e-Delhi, Farmans, Nishans and Parwanas.

UNIT-4

Sources of Modern India:

Archival Records, Private Paper: Official and Non-Official, News Papers and Periodicals, Audio-Visual Records, Oral Records.

Suggested Reading:

- Aggarwal, V.S. , 1965, *Studies in Indian Art*, Varanasi.
- Akbar S. Ahmed, 1990, *Discovering Islam: Making Sense of Muslim History and Society*, New Delhi.

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- Birani, Ibn-i-Hasan, 1990, *Maqalat-i-Barani-Karachi*, New Delhi.
- Elliot, Sir H.M. & J. Dowson, 1867-77, *History of India as Told by its Own Historians*, 8 vols.
- Grewal, J.S. , 1970, *Muslim Rule in India: The Assessment of British Historians*, Calcutta.
- Hasan, Mohibut(ed.) ,1968, *Historians of Medieval India*, Meerut.
- Ibn, Khaldum, 1958, *Muqaddimah: An Introduction to History*, Eng. Tr. Ero Franz Rosenthal, London.
- Majumdar, R.C. & S.P.Sen(ed.) ,1970, *Indian Historiography: Some Recent Trends in Modern India*, Bombay.
- Majumdar, R.C. ,1960, *Classical Accounts of India*, Calcutta.
- Mukhia, Harbans, 1976, *Historians and Historiography During the Reign of Akbar*, New Delhi.
- Pargiter, F.E. ,1913, *Dynasties of Kali Age*, London.
- Pargiter, F.E. ,1922, *Ancient Indian Historical Tradition*, London.
- Philips, C.H.(ed.),1961, *Historians of India, Pakistan and Ceylon*, London.
- Rosenthal, F. , 1952, *History of Muslim Historiography*, London.
- Sankalia, H.D. ,1964, *Stone Age Tools, their Techniques and Uses*, Pune.
- Sarkar, Jagdish Narayan, 1977, *History of History Writings in Medieval India*, Calcutta.
- Siraj, Minhaj-us, 1969, *Tabaqat-i-Nasiri*, (Eng. Tr.H.G. Revert 2 Vols.) Calcutta.
- Sircar, D.C. , 1965, *Indian Epigraphy*, Delhi.
- Sivarammaurti, C. , 1964, *Indian Sculpture*, New Delhi.
- Thapar, Mukhia & Chandra, 1969, *Communalism and the Writings of Indian History*, New Delhi.
- Tikekar, S.R. , 1964, *On Historiography*, Bombay.
- Winternitz, M., 1963-67, *History of Indian Literature*, 3 Vols, New Delhi.

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A/3/CC13 Course: Contemporary History of India (1948-2000 A.D.)	Total Credits: 2 Time: 3 Hrs. Marks: 50 External: 30 Internal: 20
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Note: For The Paper Setter :

External:

1. Five Questions will be set in all and students will be required to attempt 3 questions.
2. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus.
3. In addition, four more questions will be set unit-wise comprising of two questions from each unit. The candidates are required to attempt two more questions selecting at least one from each unit. (10 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (10 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand the Post-Modern History of India.
CO2	Trace the political situation, developments of Contemporary India.
CO3	Compare, connect and contrast economic performance of contemporary India with Colonial India.
CO4	Create a better Historiographical understanding in the Contemporary History period.

UNIT-1

Laying the foundation of independent India, Features of Indian Constitution, The Constitution: nationality and citizenship, Linguistic re-organisation, Integration and Reorganization of Indian States, Operation Polo, Socio- Economic Reforms and Foreign Policy, Foreign policy and the making of non-alignment

UNIT-2

Envisioning a new economic order:

Agriculture and industry; Five Year Plans, Green Revolution, Abolition of Privy Purses and Titles; Nationalization of Banks; The Emergency, Janata Government; Return of Congress to power ; Foreign Policy.

UNIT-3

Democracy at work:

Congress and other political formations: Left parties, Naxalbari, Caste politics, Dravidian movement, Women and politics: Hindu Code Bill, Status of Women Report Political Developments, Relations with Neighboring Countries, Liberalization, Privatization and Globalization

UNIT-4

Crisis and after:

Railway Strike, J.P. Movement and Emergency, Developments in the 1980's: Coalition politics; Mandal Commission and aftermath, Responding to new global alignments: Neo-liberalism, Communalism and Separatist Movements, Women Empowerment and Policy of Reservation, Ayodhya Verdict.

Suggested Reading:

- Bates, Crispin, and Subho Basu, *The Politics of Modern India since Independence*, Routledge/Edinburgh South Asian Studies Series, 2011.
- Bipan Chandra, Mridula Mukherjee and Aditya Mukherjee, *India Since Independence*, New Delhi, 2008.
- Brass, Paul R. *The Politics of India since Independence*, 1980.

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- C.P.Bhambhri ,1995, *Indian Politics since Independence Vol : I* , NewDelhi
- Dalmia, Vasudha and Rashmi Sadana (editors), *The Cambridge Companion to Modern Indian Culture*. Cambridge University Press.
- Ghai, K.K., 2012, *Indian Government and Politics*, New Delhi, 1912.
- Guha, Ramachandra, 2011, *India After Gandhi: The History of the World's Largest Democracy*. Pan Macmillan
- Palmar D.Norman, 1971, *The Indian Political System* , 2nd Ed.,Boston.
- Partha Chatterjee, 2002, *State and Politics in India* , New Delhi.
- Publication Division, *India : 40 years of Independence*.
- Publciation Division Ministry of Brodcasting GOI, *Era of Rapid Change, 1947 – 1971*.
- S.Gopal, 1956, *Jawaharlal Nehru , A Biography , Vol:I* ,1889- Cambridge.
- V.D. Mahajan , *Contemporary History of India*, Chand & Company, New Delhi. Vol. I & II

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M.A. History & Archaeology 3rd Semester Group-A (Indian Archaeology) Course Code : MA/H&A /3/DSC1 Course: Pre-History and Proto-History of India	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes:

CO1	Understand critically evaluate the knowledge of human evolution in world scenario as well as India.
CO2	Understand critically evaluate the knowledge of Paleo-environment during Stone Age in India especially from- Sohan, Narmada, Godavari and Kotlayar valleys.
CO3	Understand familiarize with the Lower, Middle and Upper Palaeolithic, Mesolithic and Neolithic cultures of India distribution, environment, typo-technology of tools, subsistence, art, chronology, evidences from important sites.
CO4	Familiarize the Harappan Culture - Origin, extent, chronology, factors of urbanization, trade, script, religion, arts and craft, factors of decline.

UNIT-1

Prehistory of India:

Aims, Scopes and Methods; Climatic Fluctuation during the Pleistocene Period; General Background of World Prehistory; Stone-age, Tools, Techniques and Probable Uses.

UNIT-2

Lithic Culture of India:

Lower Palaeolithic- Potwar Region, Beas & Banganga Valley, Narbada Valley, South India; Middle Palaeolithic Culture in India; Upper Palaeolithic Culture in India; Mesolithic Culture in India; Neolithic Culture in India.

UNIT-3

Proto-History of India:

Aims, Scope & Methods; Harappan Civilization; Chalcolithic Cultures: Rajasthan, Central India and Deccan.

UNIT-4

Iron-Age Culture:

Antiquity of Iron in India; PGW (Painted Grey Ware); South Indian Megalithic Culture.

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Suggested Reading:

- Agrawal, D.P. & Ghosh A. (ed.) , 1973, *Radiocarbon and Indian Archaeology*, Bombay.
- Agrawal, D.P. , 1984, *The Archaeology of India*, New Delhi.
- Allchin, B & R, 1989, *The Rise of Civilization in India and Pakistan*, New Delhi.
- Allchin, F.R. , 1997, *Origins of a Civilization*, Delhi.
- Chakrabarti, D.K. (ed.) , 1979, *Essays in Indian Proto-history*, Delhi.
- Deo, S.B. , 1973, *Problem of South Indian Megaliths*, Karnataka University Press, Dharwar.
- Gaur, R.C. (ed.) , 1994, *The Painted Grey Ware: Proceedings of the Seminar*, Jaipur.
- Gururaja Rao, B.K, 1981, *The Megalithic Culture in South India*, Mysore.
- Jain, K.C., 1979, *Prehistory and Proto-History of India*, Agam Kala Prakashan, New Delhi.
- Ratnagar, S. , 2000, *The End of the Great Harappan Tradition*, New Delhi.
- Ratnagar, S. , 2001, *Understanding Harappa*, New Delhi.
- Roy, T.N. , 1982, *The Ganges Civilization*, New Delhi.
- Sankalia, H.D. , 1964, *Stone Age Tools: their Techniques, Name and Probable Function*, Pune.
- Sankalia, H.D. , 1974, *Prehistory and Proto-history of Indian and Pakistan*, Pune.

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M.A. History & Archaeology 3rd Semester Group-A (Indian Archaeology) Course Code : MA/H&A /3/DSC2 Course: Ancient Indian Epigraphy and Paleography-I		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter:</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks). 		
Course Outcomes:		
CO1	Critically analyze the Inscriptions as a source of Indian History.	
CO2	Understand the Origin and antiquity of art of writing in India as well as origin of Brahmi Script and Kharoshthi Script.	
CO3	Critically analyze the various aspect of inscriptions and their importance as a source of Indian History.	
CO4	Understand the decipherment and transliteration of Brahmi and Kharoshthi script.	
UNIT-1		
Inscriptions as a source of Indian History; Origin and antiquity of the art of writing in India; Origin of Brahmi script; Origin of Kharosthi script.		
UNIT-2		
Historical and Cultural study of the following inscriptions: Ashokan Rock Edict - II (Girnar); Ashokan Rock Edict - XII (Girnar); Ashokan Rock Edict - XIII (Shahbazgarhi); Ashokan Pillar Edict - II (Delhi-Topra: North Face).		
UNIT-3		
Historical and Cultural study of the following inscriptions: Besnagar Garuda Pillar Inscription of Heliodorus; Ayodhya Stone Inscription of Dhanadeva; Shinkot Relic Casket Inscription of the time of Menander; Hathigumpha Inscription of Kharavela.		
UNIT-4		
Inscriptions for decipherment into Devanagari/Roman script and transliteration into original script (in part or full): Ashokan Rock Edict-II (Girnar); Rummindei Pillar inscription of Asoka; Sarnath Minor Pillar Edict of Asoka; Ayodhya Stone Inscription of Dhanadeva.		
Suggested Reading: <ul style="list-style-type: none"> • Agarwal, Jagannath, 1986, <i>Researches in Indian Epigraphy and Numismatics</i>, New Delhi. • Bajpai, K.D. , 1992, <i>Aitihāsik Bhārtiya Abhilekh</i> (in Hindi), Publication Scheme, Jaipur. • Barua, B.M. , 1946, <i>Ashoka and his Inscriptions</i>, Calcutta. 		

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- Bhandarkar, D.R, 1946, *Ashoka*, Calcutta.
- Buhler, G. ,1973, *Indian Palaeography*, New Delhi.
- Dani, A.H. , 1963, *Indian Palaeography*, Oxford.
- Goyal, S.R. , 1982, *Prachin Bhartiya Abhilekh Sangraha* (in Hindi), Jaipur.
- Gupta, P.L. , 1979, *Prachin Bharat Ke Pramukh Abhilekh* (in Hindi), Varanasi.
- Hultsch, E. (ed.) , 1991, *Corpus Inscriptionum Indicarum*, Vol. I, New Delhi.
- Kausambi, D.D., 2019, *Bhartiya Itihas ka adhyaan ek Parichya*, Sage Bhasha Publication
- Ojha, G.H. ,1959, *Prachin Bhartiya Lipimala* (in Hindi), Delhi.
- Pandey, R.B. , 1962, *Historical and Literary Inscriptions*, Varanasi.
- Sircar, D.C. , 1965, *Select Inscriptions*, Calcutta.
- Sircar, D.C. , 1965, *Indian Epigraphy*, Delhi.

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M.A. History & Archaeology 3rd Semester Group-A (Indian Archaeology) Course Code : MA/H&A/3/DSC3 Course: Ancient Indian Numismatics-I	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes:

CO1	Critically analyze the coins as a source of Indian History and Numismatic studies in India.
CO2	Understand the Origin, evolution and antiquity of coin in India.
CO3	Obtain the interpretation of the numismatic iconography as an important source for historical and artistic studies.
CO4	Learn how identify coins of several periods and understand the decipherment and transliteration of Greek script.

UNIT-1

Numismatics: aim, method and scope; Numismatic terminology; Coins as a source of History; History of Numismatic studies in India.

UNIT-2

Origin and evolution of coinage in India; Antiquity of Indian coins; Techniques of manufacturing coins.

UNIT-3

Punch Marked Coins; Uninscribed and inscribed cast coins; City Coins

UNIT-4

Indo-Greek coins; Tribal Coins : Audumbara, Kuninda, Yaudheya

Coins for Decipherment:

Indo-Greek Coins; Tribal Coins : Kuninda and Yaudheya

Suggested Reading:

- Bajpai, K.D. , 1976, *Indian Numismatics Studies*, New Delhi.
- Bhandarkar, D.R. , 1984, *Carmichael Lectures, Ancient Indian Numismatics*, Patna.
- Cunningham, A. , 1971, *Coins of Ancient India*, Varanasi.
- Dasgupta, K.K. , 1974, *Tribal History of Ancient India: A Numismatic Approach*, Calcutta.

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- Gardner, P. , 1971, *The Coins of the Greek and Scythic Kings of Bactria and India in the British Museum*, New Delhi.
- Gupta, P.L. , 1996, *Coins*, New Delhi.
- Lahiri, Bela, 1964, *Indigenous States of North India*, Calcutta.
- Lahri, A.N. , 1965, *Corpus of Indo-Greek Coins*, Calcutta.
- Macdonald, G. , 1916, *Evolution of Coinage*, Cambridge.
- Mehta, V.D.M. , 1967, *Indo-Greek Coins*, Ludhiana.
- Mukharjee, B.N. and Lee, 1974, *Technology of Indian Coins*, Calcutta.
- Rao, Rajvant & Rao P.K. , 1998, *Prachin Bhartiya Mudrayen*, Delhi.
- Santosh Bajpai, 1997, *Aitihāsik Bhartiya Sikke*, Delhi.
- Sharan, M.K. , 1972, *Tribal Coins: A Study*, New Delhi.
- Singh, J.P. and Ahmed Nisar, 1977, *Seminar Courses on the Tribal Coins of Ancient India (c. 300 B.C. to 400 A.D.)*, Varanasi.
- Thakur, Upendra, 1972, *Mints and Minting in India*, Varanasi.
- Upadhyaya, V, 1986, *Prachin Bhartiya Sikke*, Allahabad.

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M.A. History & Archaeology 3rd Semester Group-B (Ancient India) Course Code : MA/H&A/3/DSC4 Course: Political History of India (ET- C.- 320A.D.)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter:</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes		
CO1	Understand the sources of Indian History and critically evaluate the knowledge of Stone Age in India.	
CO2	Critically analyses the Indus civilization, Vedic and Post-Vedic Civilization.	
CO3	Critically analysed the rise of Magadha Empire and Political condition of India on the eve of Alexander's Invasion.	
CO4	Understand critically evaluate the knowledge of human evolution in world scenario as well as India.	
UNIT-1		
Sources: Archaeological Sources; Literary Sources; Foreign Travellers in India.		
UNIT-2		
Indus Valley Civilizations: Pre-Harappan Cultures – Origin; Harappan Culture - Extent, Development & Declines.		
Vedic Age: Emergence of Tribal State and institutions; Rise of Monarchical and Republican States		
UNIT-3		
Rise of Magadha Empire: Rise of Pre-Mauryan Dynasties; Mauryan Empire- Chandergupta Maurya and Ashoka; Alexander's Invasion: Events and Effects.		
Aftermath of Mauryan Empire: North India - Sunga Dynasty; South India - Satavahana Dynasty.		
UNIT-4		
Emergence of New Powers: Indo-Greek; Saka; Kushana; Pallava.		
History as depicted in coins: Yaudheyas; Audumbras; Kunindas		

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Suggested Reading:

- Agrawala, V.S. , 1957, *India as known to Panini*, Lucknow.
- Allchin, B & R, 1989, *The Rise of civilization in India and Pakistan*, New Delhi.
- Bhandarkar, D.R. , 1969, *Ashoka* (English and Hindi edition) University of Calcutta.
- Chattopadhyaya, S. , 1955, *Sakas in India*, Visva-Bharti Prakashan, Calcutta.
- Jain, K.C. , 1979, *Prehistory and Proto-history of India*, Agam Kala Prakashan, New Delhi.
- Kausambi, D.D., 2019, *Bhartiya Itihas ka adhyaan ek Parichya*, Sage Bhasha Publication
- Majumdar, R.C. & Pusalkar, A.D. , 1970, *The Vedic Age*, Vidya Bhavan, 2nd (ed.).
- McCrindle, 1982, *The Invasion of India by Alexander the Great*, Today and tomorrow Printers and Publishers, New Delhi.
- Mishra, S.N. , 1976, *Ancient Indian Republics*, Upper India Publishing House, Lucknow.
- Mookerji, R.K. , 1966, *Chandragupta Maurya and His Times*, Motilal Banarsidass, Delhi.
- Narain, A.K, 1980, *The Indo-Greeks*, Oxford University Press, New Delhi.
- Pargitar, F.E. , 1962, *Ancient Indian Historical Tradition*, Motilal Banarsidass, Delhi.
- Puri, B.N, 1957, *India in the 'Times of Patanjali'*, Bombay.
- Puri, B.N, 1963, *India under the Kusanas*, Calcutta.
- Raychaudhury, H.C. , 1972, *Political History of Ancient India*, University of Calcutta.
- Sankalia, H.D. , 1974, *Prehistory and Proto-history of India and Pakistan*, Pune.
- Sastri, K.A.N. , 1967, *The Age of Nandas and Mauryas*, Motilal Banarsidass (2nd ed.) Delhi.
- Sastri, K.A.N. (ed.) , 1987, *Comprehensive History of India*, Vol. II, Delhi.
- Sharma, R.S. , 1959, *Political Ideas and Institutions in Ancient India*, Motilal Banarsidass Publishers, Delhi.
- Thapalyal, K.K. & Shukla, S.P. , 1976, *Sindhu Sabhyata*, Uttar Pradesh Hindi Sansthan, Lucknow.
- Thapar, Romila, 2004, *Ashoka and the Decline of the Mauryas*, Oxford University Press, Delhi.
- Wheeler, R.E.M. , 1959, *Early India & Pakistan*, New York.
- Yazdani, G. , 1995, *Deccan Ka Prachin Itihas*, Motilal Banarsidass, Delhi.

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M.A. History & Archaeology 3rd Semester Group-B (Ancient India) Course Code : MA/H&A/3/DSC5 Course: Society and Culture of India - I (ET – C.-1200 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Understand about the society and culture of India from Earliest times to C. 1200 AD i.e. from Harappan, Vedic and Buddha's time
CO2	Understand the family organization, Varna system and Ashrama system
CO3	Understand the Sanskaras and Purusartha
CO4	Understand about the Marriage, Caste system and Slavery

UNIT-1

Socio-Cultural Formation:

Enquiries into Socio-Cultural life of Harappan People; Vedic Society; Society at Buddha's Time.

UNIT-2

Social Institutions-1:

Family Organisation; Varna System; Ashrama System.

UNIT-3

Social Institutions-2:

Sanskaras; Purusharthas; Education System.

UNIT-4

Social Institutions-3:

Marriage; Caste system; Slavery.

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Suggested Reading:

- Altekar, A.S. , 1975, *Education in Ancient India*, Varanasi.
- Altekar, A.S. , 1999, *Position of Women in Hindu Civilization*, Motilal Banarsidass, Delhi
- Bary, W.I.D. (ed.) , 1958, *Sources of Indian Tradition, Vol. I*, New York.
- Bhattacharya, S.C. , 1978, *Some Aspects of Indian Society from 2nd Century B.C. to 4th Cent A.D.*, Calcutta.
- Chattopadhyay, B. , 1975, *Kushana State and Indian Society*, Punthi Pustak, Calcutta.
- Chattopadhyaya, S. , 1965, *Social Life in Ancient India*, Calcutta.
- Fick, R. , 1972, *Social Organisation of North-Eastern Indian in Buddha's time*, Trans. S.K. Mitra, Delhi.
- Ghurye, G.S. , 1969, *Caste and Race in India*, Bombay.
- Hutton, J. , 1946, *Caste in India*, Cambridge University.
- Kane, P.V. , 1930, *History of Dharmasastra*, Bhandarkar Orient Research Institute, Poona.
- Kausambi, D.D., 2019, *Bhartiya Itihas ka adhyaan ek Parichya*, Sage Bhasha Publication
- Krishna, N. , 1984, *South Indian History and society*, Oxford University Press, New Delhi.
- Majumdar, B.P. , 1960, *Socio-Economic History of Northern India (1030-1194)*, Firma K.L. Mukhopadhyay Publishers, Calcutta.
- Pandey, R.B. , 1976, *Hindu Samskara*, Delhi.
- Rapson, E.J. , 1955, *The Cambridge History of India, Vol I*, Delhi.
- Sengupta, N. , 1965, *Evolution of Hindu Marriage*, Bombay.
- Sharma, R.S. , 1980, *Sudras in Ancient India*, Motilal Banarsidass, Varanasi, Delhi.
- Sharma, R.S. , 1983, *Material Culture and Social formation in Ancient India*, Macmillan, Delhi.
- Shastri, K.A.N. , 1987, *Comprehensive History of India, Vol. II(ed.)*, reprint, Delhi.
- Singh, Upinder ,2020, *Pracheen Bharat ke Avddharna*, Sage Bhasha Publication
- Thapar, Romila, 2004, *Ancient Indian Social History-Some interpretations from Lineage to Caste*, Pub. Orient Longman, New Delhi.
- Thapar, Romila, 2004, *Asoka and Decline of the Mauryas*, Oxford University Press, Delhi.
- Wagle, N.G. , 1966, *Society at the time of Buddha*, Bombay.
- Yadav, B.N.S. , 1973, *Society and Culture of Northern India in the 12th Century*, Central Book Depot, Allahabad.

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A/3/DSC6 Course: Economic History of India- I (ET – C.-1200 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Understand about the Economic History of India (from Earliest times to C. 1200 AD) i.e. from Stone-age, Neolithic Culture and Harappan Culture.
CO2	Understand the Vedic and Later Vedic Economy.
CO3	Understand the Emergence and Growth of Industries i.e. Metal, Pot Making, Textile, Guilds in Buddhist Period and Trade and Commerce in Buddhist Period.
CO4	Understand about the Mauryan and Post-Mauryan Economy.

UNIT-1

Survey of Sources and Early Cultures:

Stone Age-Food Gathering Economy; Advent of food Production Neolithic Culture; Urban Experiment-Harappan Culture.

UNIT-2

Vedic Economy:

Early Vedic; Later Vedic.

UNIT-3

Emergence and Growth of Industries:

Metal; Pot Making; Textile; Guilds in Buddhist Period; Trade and Commerce in Buddhist period

UNIT-4


Mauryan and Post Mauryan Economy:

Nature and Features; Land system and Land Revenue System; Ownership of Land; Irrigation

Trade and Commerce:

Internal Trade; Foreign Trade : Trade Relations with Roman and South - Asian World; Mechanism of Trade : Trade Route, Forms of Exchange, Currency and Coinage.

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Suggested Reading:

- Adhey, G.L, 1966, *Early Indian Economics*, Asia Publishing House, Delhi.
- Ghoshal, U. N. , 1929, *Contribution to the History of Hindu Revenue system*, Calcutta.
- Ghoshal, U. N. , 1973, *Agrarian System in Ancient India*, Calcutta University, (2nd edn.) Calcutta.
- Gopal, Lallanji, 1980, *Aspects of the History of Agriculture in Ancient India*, Bharti Prakashan, Varanasi.
- Gopal, Lallanji, 1989, *Economic Life in Northern India*, Motilal Banarsidass, (2 nd edn.) Delhi.
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- Kosambi, D.D. , 1956, *An Introduction to the Study of Indian History*, Popular Prakashan, Bombay.
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- Sharma, R.S. , 1983, *Material Culture and Social formations in Ancient India*, Macmillan, Delhi.
- Sircar, D.C. , 1960, *Land System and Feudalism in Ancient India (1030-1194)*, Calcutta.
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- Thakur, V.K. , 1989, *Historiography of Indian Feudalism*, Janaki Parkashan, Patna.
- Yazdani, G, 1982, *Early History of Deccan*, Oriental Book , New Delhi.

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M.A. History & Archaeology 3rd Semester Group-C (Medieval India) Course Code : MA/H&A/3/DSC7 Course: Political History of India (C. 1200 to 1526 AD)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Get basic knowledge about the Islamic theory of Sovereignty, the Sultanate and the Caliphate and Theory of Kingship under the Sultans of Delhi.
CO2	Understand the Barni's theory of Kingship, Nature of Delhi Sultanate and Nature of Afghan State.
CO3	Understand the conquest and expansion of Mamlauks and their consolidation and construction of power.
CO4	Understand about Mangol Problem and Disintegration of the Sultanate.

UNIT-1

Introduction to the course and contrasting Pre-Histories of the Delhi Sultanate (Sind Invasion of Arab to Establishment of Delhi Sultanate 1206 A.D.), Indian Feudal Debate, Sources and Historiography of Sultanate Period, Theory of Kingship & Legitimacy under the Sultanate.

UNIT-2

Islam and its Ghurid-Shansabanid contexts in the 12th century, Mamluk's - Conquest and Expansion, Courts of a Different Order – the Sufis tariqas, Relation between State and Sufi .

UNIT-3

Frontier Feudatories and the Khalaji and Tughluq regimes:

Khalji Revolution, Consolidation and Construction of Khalji's power, The Tughlaqs

Saiyyad and Afghans:

Sayyid Dynasty, Lodhi Dynasty

UNIT-4

Distinction of the Delhi Sultanate:

Mangol Problems, Downfall of Delhi Sultanate, Rise of Regional States: Jaunpur, Malwa, Gujarat, Vijay Nagar, Behmani.

Suggested Reading :

- Chandra, Satish, 1998, *Medieval India - Vol . I (From Sultanate to the Mughal)* New Delhi.
- Chattopadhyaya, B.D. , (1997), *Political Processes and the Structure of Polity in Early Medieval India*, in Hermann Kulke, ed., *The State in India, 1000-1700*, Delhi: Oxford University Press, pp. 195-232.

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- Digby, Simon (1986), *The Sufi Shaikh as a source of authority in medieval India Purusartha (Islam and Society in South Asia)* vol. 9, pp. 57-77 (reprinted now in Richard Eaton, ed., *India's Islamic Traditions*, Delhi: Oxford University Press), pp. 234-262
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- Habib Irfan (ed.) , 1981-2003, *Madhyakaleen Bharat, Vols. I to 8*, New Delhi.
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- Habib Mohd. & Nizami, 1982, *Comprehensive History of India, Vol. V*, New Delhi.
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- Jackson, Peter. (1975). *The Mongols and the Delhi Sultanate*, *Central Asiatic Journal* vol. 19, pp. 118-156
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- Lawrence, Bruce B. (1986), *The earliest Chishtiya and Shaikh Nizam al-Din Awliya* in *Delhi through the Ages*, ed. R.E. Frykenberg, Delhi: Oxford University Press, pp. 104-128.
- Sharma, R.S. (1997), *How Feudal was Indian Feudalism*, in Hermann Kulke, ed., *The State in India, 1000-1700*, Delhi: Oxford University Press, pp. 48-85.
- Shokoohy, Mehrdad and Natalie H. Shokoohy. (1994), *Tughluqabad, the Earliest Surviving Town of the Delhi Sultanate*, *Bulletin of the School of Oriental and African Societies* vol. 57, pp. 516-550;
- Verma, H.C. , 1983, *Madhyakaleen Bharat Vol. 1206 -1540 A.D.*, (in Hindi) Delhi.

Ignou Booklets

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M.A. History & Archaeology 3rd Semester Group-C (Medieval India) Course Code : MA/H&A/3/DSC8 Course: Society and Culture of India (C. 1200 -1757 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand about the main features of social structure and religious-cultural traditions of Turkish invasion.
CO2	Understand the establishment of Delhi Sultanate and Mughal Empire and Challenges to Indian Society and culture.
CO3	Got the knowledge about the Social and Religious Classes- Ruling Class, Service Class, Ulema, Saiyyads.
CO4	Understand the Crime and Punishments, Harem and its administration and Revolts in Medieval India.

UNIT-1

Society on the Eve of Turkish Invasions: Main features of Social Structure (in Pre Medieval), Religio-Cultural Traditions (in Pre Medieval); Establishment of Delhi Sultanate and Challenges to Indian Society

UNIT-2

Social Structure (Sultanate and Mughal Period): Ruling class, Religious Classes- Ulema, Saiyyads, Service class, Artisans, Peasantry

UNIT-3

Cultural Development (Sultanate and Mughal Period):

Development of Languages: Sanskrit, Persian, Hindi, Urdu and Its Regional Forms, **Society and Culture of Medieval India from the Writings of:** Ameer Khusarau, Kabir Das and Tulsī Das, Mirza Galib and Mir Taqi Meer

Imperial City Sahjahanabad: Planning and Structure of City, Society, Culture and Communal Harmony in 17th and 18th Century, Development of Indian Islam

UNIT-4

Crime and Punishments in Medieval India, Rituals and Festivals in Medieval India, The Mughal Harem, **Revolts In Mughal India:** Peasents Revolts, Religious Forms of Resistance: Satnami and Sikh Revolts, **The Revolts of the Nobility and Princes** (c. 1560-1740 A.D.)

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A.S. Singh

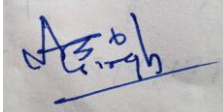
Suggested Reading:

- Ahmed, Aziz, 1964, *Studies on Islamic Culture in the Indian Environment*, Oxford.
- Arshi, Nida, (2012). *Expansion of Colonial Authority in the City of Delhi, 1803 – 1856*:
- Chandra, Satish, 1998, *Medieval India - Vol . I (From Sultanate to the Mughal)* New Delhi.
- Chattopadhyaya, B.D. (1997). *Political Processes and the Structure of Polity in Early Medieval India*, in Hermann Kulke, ed., *The State in India, 1000-1700*, Delhi: Oxford University Press, pp. 195-232.
- Habib Irfan (ed.) , 1981-2003, *MadhyaKaleen Bharat Vols. I to 8* (Relevant Articles), New Delhi.
- Habib Irfan (ed.) , 2002, *Bhartiya Itihas Mein Madhyakal*, Delhi.
- Habib Irfan (ed.), 1992, *Medieval India (Vol.1 Researches in the History of India 1200-1750)*, Delhi.
- Habib Mohd. & Nizami, 1982, *Comprehensive History of India, Vol . V*, New Delhi.
- Habib, Irfan. (1999). *The Agrarian System of Mughal India, 1556-1707*, Delhi: Oxford University Press, pp. 364-405 (Chapter 9, 'The Agrarian Crisis of the Mughal Empire'),.
- Habib, Irfan. (reprint 2009). *Agrarian System of Mughal India, 1556-1707*, [chapter 8], Delhi: Oxford University Press, pp. 342-363.
- Hunter, W.W. (1871; reprint 1964), *The Indian Mussulmans*, Trubner and Co., Chapter-4, pp.120- 170.
- Hussain, Yusuf, 1962, *Glimpses of Medieval Indian Culture*, Delhi.
- Jafri, S.Z.H. (2018). The Mughal-Nawabi Legacy under Siege in the Age of Empire (1860-1880): Familial Grants and the *Waqf* of *Khanqah-e Karimia*, Salon in India”, in Miura Toru (ed.) *Comparative Study of the Waqf from the East: Dynamism of Norm and Practices in Religious and Familial Donations*, Tokyo, The Toyo Bunko, pp.191-216.
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- Khan, Motiur Rahman. (2011). *Akbar and the Dargah of Ajmer*, in *Proceedings of the Indian History Congress*, Vol. 71, pp. 226-235
- Moosvi, Shireen. (2013), *Charity, Objectives and Mechanism in Mughal India [16th and 17th centuries]*, in *Proceedings of Indian History Congress*, Mumbai, pp. 335-346.
- Rana, R.P. (2006). *Rebels to Rulers: The Rise of Jat Power in Medieval India, c. 1665-1735*, New Delhi: Manohar, pp. pp. 107-181 (Chapters, 5-6).
- Saxena, R.K. , 1996, *Madhya Kaleen Bharat Ki Arthik Pahloo*, Jaipur.
- Sharma, G.D. , 1992, *Madhya Kaleen Bharat Ki Rajnitik, Samajik evam Aarthik Sansthayen*, New Delhi
- Sharma, R.S. (1997). *How Feudal was Indian Feudalism* in Hermann Kulke, ed., *The State in India, 1000-1700*, Delhi: Oxford University Press, pp. 48-85.
- Siddiqui, I.H. (ed.) , 2003, *Medieval India: Essays in Intellectual Thought & Culture Vol. I*, Delhi.
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- Verma, H.C. , 1983, *Madhyakaleen Bharat Vol. 1206 -1540 A.D.* (in Hindi) Delhi.

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M.A. History & Archaeology 3rd Semester Group-C (Medieval India) Course Code : MA/H&A/3/DSC9 Course: Economy of India-I (C. 1200-1526 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand about Pre-Sultanate economy and Land Revenue system during Early Turks, Khaljis, Tughlaqs and Lodhis.
CO2	Understand the Irrigation and Changes in Crop-Pattern.
CO3	Got the knowledge about the Currency, Industries and Trade and Commerce during that period
CO4	Critically analyze the Economic Development in Sultanate period through the Contemporary sources and later on Historiography.

UNIT-1

Pre-Sultanate Economy, Land revenue System and Magnitude: Mamluks, Khaljis, Tughlaqs and Lodhis, Irrigation and Changes in Crop-pattern, Iqta System

UNIT-2

Market Control Policy and Prices of Commodities (Alauddin Khalji), Fiscal measures of Muhammad Bin Tuglaq, Village Community and property rights, Village Organization: Khuts, Muqaddams and Chaudharies

UNIT-3

Technological changes and Economy, Merchants Class, The Monetary system (1200-1526 A.D.), Karkhanas under the Sultanate

UNIT-4

Industries, Trade and Commerce : Industries in Sultanate Period, Inland and External Trade, Growth of Towns, Debate on Urbanization in Sultanate Period

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Suggested Reading:

- Ashraf, K.M. , 1998, *Life and Condition of the People of Hindustan*, New Delhi.
- Chandra, Satish, 2004, *Medieval India (from Sultanate to Mughals) Vol. I & II* (English & Hindi), Har Anand, New Delhi.
- Chattopadhyaya, D.P. , 1982, *Studies in the History of Science in India*, New Delhi.
- Chaudhary, Tapan Ray, 1982, *Cambridge Economic: History of India (c. 1200-1750 A.D.) Vol. I*, OUP.
- Cipolla, C.W., 1991, *Between History and Economic History*, New Delhi.
- Frekenberg (Ed.) , 1969, *Land Control and Social Structures in Indian History*, London.
- Habib, Irfan, 1951 – 2003, *Madhyakaleen Bharat Vol. I - VIII (in Hindi also)* Raj Kamal Prakashan, New Delhi.
- Habib, Irfan, 1995, *Essays in India History: Towards a Marxist Approach*, New Delhi.
- Habib, Irfan, 2002, *Bhartiya Itihas Mein Madhyakal*, New Delhi.
- Kosambi, D.D. , 1972, *An Introduction to the Study of Indian History IX & X*, New Delhi.
- Methew, K.S. , 1983, *The Portuguese Trade with India in the Sixteenth Century*, New Delhi.
- Moreland, W.H. , 1968, *Agrarian System of Moslem India*, Delhi.
- Mukhia, Harbans, 1993, *Perspectives on Medieval History*, Vikas Publishing House, Delhi.
- Panikar K.N. Ed. , 2007, *The Making of History-Essays Presented to Irfan Habib*, Tulika, New Delhi.
- Ray, Anirudha & Bagchi, S.K. (Ed.) , 1986, *Technology in Ancient and Medieval India*, Delhi.

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M.A. History & Archaeology 3rd Semester Group-D (Modern India) Course Code : MA/H&A/3/DSC10 Course: Political History of India (C. 1757 to 1947 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand about the sources of Modern Indian History i.e. Archival Records, Private Courses, NewsCourses, Periodicals and Oral Traditions.
CO2	Understand the pre-colonial Indian Polity.
CO3	Understand the emergence of British Power and Indian resistances.
CO4	Understand the diplomatic means of British Expansion and Paramountecy and aftermaths.

UNIT-1

Pre-Colonial Indian Polity:

Major states in 18th century, Emergence of English East India Company in Bengal, Political Settlement of 1765, Anglo-Mysore Relations (1767-1799), Anglo-Marathas Relations (1795-1818)

UNIT-2

The British Paramountcy:

Subsidiary Alliance System, Conquest of Sind, Annexation of Punjab, Nepal and Burma, Doctrine of Lapse

UNIT-3

Conflict and Cooperation:

Uprising of 1857, Crown Takes Over, Consolidation of Colonial State-Administration, Relation with Indian states

UNIT-4

Foreign Policy:

Afghan, North West Frontier(N.W.F.) Province Policy, Tibet

Independent India;

Problems of Princely States, Vision of India

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Suggested Reading:

- Banerjee, A.C. , 1984, *A New History of Modern India 1757-1947*, Calcutta.
- Bhaskar, Arvind, 2021, *Bharat Ka Swatantrta Sangram (Part-1&2)*, Kalam Publication
- Dodwell, H.H (ed.) , 1934, *The Cambridge History of India, Vol. V*, Cambridge.
- Gupta, Brijan K. , 1962, *Siraj-ud-daula and the East India Company*, Delhi.
- Majumdar , R.C. (ed.) , 1957, *The Sepoy Mutiny and Revolt of 1857*, Calcutta.
- Majumdar , R.C. (ed.) , 1965-68, *British Paramountcy and India's Renaissance Vol. X, Pt. I*, Bombay.
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- Misra, B.B. , 1959, *Central Administration of the East India Company 1773-1834*, Macmillan.
- Misra, B.B. , 1960, *The Administrative History of India 1834-1947*, Delhi.
- Norris. J.A, 1978, *The First Afghan War 1838-42*, Delhi.
- Pannikar, K.M. , 1932, *An Introduction to the study of the Relations of Indian States with the Government of India*, London.
- Penderel Moon, 1954, *Warren Hastings and British India*, London.
- Philips, C.H. , 1962, *The East India Company*, 2nd edn., London.
- R.C. Majumdar, and Dutta K.K. & Ch., H.C. Ray, 1978, *Advanced History of India Vol. III*, 4th ed. Delhi.
- Sardesai, G.S. , 1946, *New History of the Marathas - Vols II. III*, Bombay.
- Sen, S.N. , 1958, *Eighteen Fifty Seven, Delhi*, 1957, Calcutta.
- Spear, P. ,1965, *History of India, Vol. II*, Penguin.
- Stokes, Eric, 1959, *English Utilitarian and India*, Oxford.
- Sutherland, Lucy, 1952, *The East India Company in the 18th Century Politics*, Oxford.
- Tara Chand, 1991, *History of Freedom Movement, Vol. I & II*, Delhi.

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M.A. History & Archaeology 3rd Semester Group-D (Modern India) Course Code : MA/H&A/3/DSC11 Course: Society and Culture of India-I (C. 1757-1947 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand about the Pre-British Indian Society, British and Indian Society i.e. Christian Missionaries, British Social Policy and Approaches - Evangelicals and Orientalist.
CO2	Critically analyze the growth of new education system and role of press in socio-political consciousness.
CO3	Critically analyze the Indian literature and role in Indian cultural renaissance.
CO4	Understand about social reforms of 19th century in India and women's emancipation.

UNIT-1

Pre-British Indian Society:

General Features, Rural Society, Urban Society

UNIT-2

British and Indian Society:

Christian Missionaries, British Social Policy, Approaches-Evangelicalist and Orientalist

Growth of New Education:

Role of Lord Macculey, Wood's Dispatch and Aftermath, Its Role in Socio-Political Consciousness

UNIT-3

Press:

Rise and Growth of Press, Its Role in Socio-Political Consciousness

Socio-Religious Movement:

Brahmo Samaj, Arya Samaj, Ramakrishna Mission

UNIT-4


Social Reform:

Sati, Infanticide, Widow Remarriage Movement, Age of Consent Bill Agitation

Women's Emancipation

Status, Property Rights, Socio-Political Participation

Anil Kumar  JS



Suggested Reading:

- Amit Sen, 1988, *Notes on the Bengal Renaissance*, Calcutta.
- Banga, Indu and Jaidev (eds.) , 1996, *Cultural Reorientation of Modern India*, Delhi.
- Bayly, C.A. , 1987, *Indian Society and the Making of the English*, London.
- Bayly, C.A. , 1987, *Indian Society and the Making of the English Empire*, Cambridge University Press, London.
- Bhaskar, Arvind, 2021, *Bharat Ka Swatantrta Sangram (Part-1&2)*, Kalam Publication
- Bhattacharya, Sabyasachi (ed.) , 1988, *The Contested Terrarium: Perspectives on foundation in India*, Hyderabad.
- Desai, A.R. , 1989, *Social Background of Indian Nationalism*, Delhi.
- Forbes, Geraldine , 1998, *Women in Modern India*, London.
- Kopf, D. , 1969, *British Orientalism and the Bengal Renaissance*, Berkeley.
- Kumar, Ravinder , 1968, *Essays in Social History of Modern India*, Delhi.
- Majumdar, B.B. , 1968, *History of India Social and Political Ideas*, Delhi.
- Mani, Lata, 1990, *Contentious Traditions: The Debate on Sati in Colonial India*, New Jersey.
- McCully, B.T. , 1966, *English Education and the origin of Nationalism*, Gloucester.
- Mukerji , D.P. , 1995, *Indian Culture: A Sociological Study*, Calcutta.
- Mukherjee, S.N. ,1990, *The Social Implications of the Political Thought of Indian Society*, Historical Probing (ed.) R.S. Sharma, Delhi.
- Nair, Janaki , 1970, *Women and Law in Colonial India: A Social History*, Bombay.
- Sangari, Kumkum & Sudesh Vaid (eds.) , 1988, *Recasting Women: Essay in Colonial History*, Delhi.
- Sharma, R.S. (ed.) , 1984, *Indian Society: Historical Probing in Memory of D.D. Kosambi*, Delhi.
- Stokes, E. , 1959, *English Utilitarians and India*, London
- Sumit Sarkar , 1983, *Modern India*, Delhi.

Anil Kumar

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M.A. History & Archaeology 3rd Semester Group-D (Modern India) Course Code : MA/H&A/3/DSC12 Course: Economic History of India-I (C. 1757-1947A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand about the Pre-British Indian Economy, British and Indian Economy British Economical Policy and Approaches towards India and their homeland.
CO2	Critically analyze the growth of new Economical system and role of Cash nexus.
CO3	Critically analyze the Indian Pre Colonial economy and its nature.
CO4	Understand about the Economic reforms of 19th century in India.

UNIT-1

Pre-colonial Indian Economy:

Rural economy: agriculture and artisans, Urban economy: artisans and manufacturing, Rural and Urban trade

Disintegration of the Pre-Colonial Economy:

Debate over de-industrialization, Causes for the disintegration of the rural economy

UNIT-2

Debate about Colonialism and its impact on Indian Economy:

Estimates prior to the first Census of 1872, Patterns of population growth since 1872, with reference to Fertility rates, Mortality rates and Women-men ratio, Debate over de-urbanization and trends of migration and workforce

National and Per-capita income:

Estimates and comparison, Contribution of Agriculture, Industry and Tertiary services

UNIT-3

Colonial land revenue settlements:

Permanent Settlement, Raiyatwari, Mahalwari, Commercialization of agriculture with reference to crop, land labour and credit markets, Rural Indebtedness and institutions to meet rural credit needs in colonial India, Peasant Revolt

UNIT-4

Irrigation system and changes there in:

Irrigation system and changes in colonial period, Famines and the Colonial Government, Evolution of the colonial policy regarding famines

Anil Kumar P.N. Singh

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Suggested Reading:

- Bhaskar, Arvind, 2021, *Bharat Ka Swatantrta Sangram (Part-1&2)*, Kalam Publication
- Bhatia, B.M. , 1967, *Famines in India: A study in Some Aspects of the Economic History of India*, Bombay.
- Bhattacharya, Dhires , 1972, *A Concise History of Indian Economy: From the mid-Eighteen to the Present Century*, Calcutta.
- Bhattacharya, Sabyasachi , 1990, *Adhunik Bharat Ka Arthik Itihaas*, New Delhi and Patna.
- Davey, Brian , 1975, *The Economic Development of India*, Nottingham.
- Desai, A.R. , 1948, *Peasant Struggles in India*, Bombay.
- Gadgil, D.R. , 1934, *The Industrial Evolution of India in Recent Times*, London.
- Habib, Irfan , 2007, *Indian Economy 1858-1914*, New Delhi.
- Kumar, Dharma (ed.) , 1982, *The Cambridge Economic History of India, Vol. 2 1757-1970*, Cambridge.
- Mishra, Girish, 1977, *Adhunik Bharat Ka Arthik Itihas*, Delhi.
- Mishra, Girish, 1978, *Agrarian Problems of Permanent Settlement*, Delhi.
- Mukherjee, Aditya, *The Return of the Colonial in Indian Economic History: The Last Phase of Colonialism in India*, Presidential Address, Modern Section, Indian History Congress, 68th Session, New Delhi.
- Roy, Tirthankar , 2006, *The Economic History of India 1857-1947*, New Delhi, OUP.
- Singh, V.B. , 1975, *Economic History of India 1857-1956*, Bombay.
- Tomlinson, B.R. , 1993, *The Economy of Modern India 1860-1970*, Cambridge.

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A/3/SEC13 Course: Universal Humanistic Values and Life Skills	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understanding the concept and the role of paradigm and principles in strengthening universal values and life skills.
CO2	Understanding the concept and the role of personal vision and leadership
CO3	Understanding the concept and the role of principles of personal management, interdependence and interpersonal leadership.
CO4	Understanding the concept and the role of principles of empathic communication, creative cooperation and balanced self-renewal.

UNIT-1

Paradigms and Principles: Role of paradigms and principles in strengthening universal humanistic values and life skills; Inside-out approach; Personality ethics and character ethics; Primary and secondary greatness; The Principle centered paradigm; The principles of growth and change; Habits as internalized principles and pattern of behavior; The journey from dependence to independence and finally to interdependence; Role of P-PC (Production/Productive Capacity) balance in life.

UNIT-2

Principles of Personal Vision: Definition and role of proactivity in life; The power of principle centered choice and initiative, Focusing on circle of influence and its expansion, Distinction between 'To Be' and 'To Have', Making and keeping commitments. Principles of Personal Leadership: The principle of beginning with the end in mind; Leadership and management- The two creations, Becoming your own first creator, Making a principle centered personal mission statement, Creating ability to use whole brain and two ways to tap the right brain, Identifying the roles and goals towards the mission, Mission sentiments towards the organization and family.

UNIT-3

Principles of Personal Management and Interdependence: Power of independent will, Role and importance of time management, Exercise to say "NO", Identifying the roles in life, Delegation and its effectively. Emotional bank and its major deposits, Importance of laws for life, Expectations and their clarification, Personal integrity, the powers of interdependence Principles of Interpersonal Leadership: Cooperation and its role in working, Human interaction and various paradigms related to it, Selecting the best option, The five dimensions of Win/Win, Training and agreements of Win/Win, Role of system and process for Win/Win.

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UNIT-4

Principles of Empathic Communication: Character communication and empathic listening, Screening of the prescribe, Four autobiographical responses, Understanding and perception, Seek to understand, Principles of Creative Cooperation: Synergistic communication; Synergy in classroom, business and communication, Fishing for the third alternative, valuing the differences. Principles of balanced self-renewal: Four dimensions of renewal, balance and synergy in renewal, The upward spiral.

Suggested Reading:

- Covey S. R, (2004), *The Seven Habits of Highly Effective People*, Simon and Schuster Publishers, New Delhi
- Frankl, V. (1992), *Man's Search For Meaning*, Washington Square Publishers
- Khera, S. (2005), *You Can Win*, Macmillan India Ltd. (In English and Hindi)
- Neill, M. (2019), *The Inside Out Revolution: The Only Thing You Need to Know to Change Your Life Forever*, Hay House Publishers, UK
- Tomlinson, B.R., 1993, *The Economy of Modern India 1860-1970*, Cambridge.

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A /O9/OEC5 Course: The Sultanate and Mughal's Delhi (1206 A.D. – 1857 A.D.)	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Differentiate between different types of heritage sites – those that are in ruins or saved as antiquities, others that continue as sites of residence and habitation and complicate modes of transcribing them as heritage sites.
CO2	They will comprehend the difference between urbanisation and urbanity.
CO3	They will become familiar with the lives of litterateurs and poets of the city, the merchants and the menials and the significance attached to civility and decorum in a city heralded as the capital of powerful political formations.
CO4	Learn how to notice change in the life of the city and the different and complex ways in which elites, literati and the common people responded to these transitions and early modernity.

UNIT-1

Historiographical Introduction of Delhi, The Seven Cities of Delhi and their History Studying Urbanisation in the Sultanate Context.

UNIT-2

Monumental Matters/Description of the Monuments: Mehrauli Archeological Park, Qutub Complex, Hauz Khas Complex, **Worship and communitarian scaffolding:** the Qubbat al-Islam masjid, the dargah of Bakhtiyar Kaki and Nizam al-Din Auliya, **Rise a New City:** Tuglakabad.

UNIT-3

Fourteenth-fifteenth century transitions: the present and past of Firuz Shah's Firuzabad, 15th and 16th century, Humaun Tomb, **The city and Shah Jahani political order:** the Red Fort, Jama Masjid and the Chandni Chowk, Mughals and Urban Planning of Sahjhanabad City.

UNIT-4

Delhi : As a centre of Art and Culture, Devlopment of Music and Urdu in Sahjhanabad, 17th and 18th century transitions - political decentralisation and new elites, Modern Delhi and Its structures.

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Suggested Reading:

- Anooshahr, Ali. (2014). *On the Imperial Discourse of the Delhi Sultanate and Early Mughal India*, Journal of Persianate Studies vol. 7. pp. 157-176
- Frykenberg, (Ed.), *Delhi Through the Ages*, Delhi: Oxford University Press, pp. 18-33
- *Futuh-at-i Firuz Shahi*. (1996). translated by Azra Alavi, Delhi: Idarah-i Adabiyar-i Delli, pp. 19-34.. Page, J.A. (1999 reprint).
- *A memoir on Kotla Firuz Shah Delhi*: Archaeological Survey of India
- Inden, Ronald. (2006), *The Temple and the Hindu Chain of Being*, in *Text and Practice: Essays on South Asian History*, Delhi: Oxford University Press, pp. 192-212;
- Jackson, Peter. (1986), *Delhi, the Problem of a vast Military Encampment*, in R.E.
- Kumar, Sunil. (2000). *Assertions of Authority: a study of the discursive statements of two Sultans of Delhi*:in Muzaffar Alam, Francoise 'Nalini' Delvoye and Marc Gaborieu (Eds.), *The Making of Indo-Persian Culture: Indian and French Studies*, Delhi: Manohar, pp. 37-65.
- Kumar, Sunil. (2011) *Courts, Capitals and Kingship: Delhi and its Sultans in the Thirteenth and Fourteenth Centuries CE*, in Albrecht Fuess and Jan Peter Hartung (Eds.), *Court Cultures in the Muslim World: Seventh to Nineteenth Centuries*, London: Routledge, pp. 123-148.
- Kumar, Sunil. (2017). *Transitions in the Relationship between Political Elites and Sufis: the 13th and 14th century Delhi Sultanate*, N. Karashima (Ed.), *State Formation and Social Integration in Pre-modern South and Southeast Asia: A Comparative Study of Asian Society*, Tokyo: Toyo Bunko, pp. 203-238;
- Lefebvre, Henri. (1996). *Right to the City*” in *Writings on Cities*, Malden: Blackwell Press, pp. 147-159.
- Taneja, Anand. (2012). *Saintly Visions: Other histories and history's others in the medieval ruins of Delhi*, Indian Economic and Social History Review, vol. 49, pp. 557–90 on <https://sites.google.com/site/sultanatemughaldelhi/fieldwork/home>.
- Weber, Max. (1966). *Associational and Status Peculiarities of the Occidental City*, in *The City*,
- Welch, Anthony. (1983). *Master Builders of the Delhi Sultanate*, Muqarnas, vol. 1, pp. 123-66;
- Welch, Anthony. (1993). *Architectural Patronage and the Past: the Tughluq Sultans of India*, Muqarnas, vol. 10, pp. 311-322;
- Welch, Anthony. (1996). *A Medieval Center of Learning in India: the Hauz Khas Madrasa in Delhi*, Muqarnas, vol. 13, pp. 165-90;
- Welch, Anthony. (1997). *The Shrine of the Holy Footprint in Delhi*, Muqarnas, vol. 14, pp. 116-178;
- Wendell, Charles. (1971). *Baghdad Imago Mundi and other foundation lore* International Journal of Middle Eastern Studies vol. 2 (1971);
- Wescoat, James. (2016). *Barapula Nallah and Its Tributaries: Watershed Architecture in Sultanate and Mughal Delhi*, in Jutta Jain-Neubauer (Ed.). *Water Design: Environment and Histories: Marg*, vol. 68, pp. 84-95.

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M.A. History & Archaeology 3rd Semester Course Code : MA/H&A /O9/OEC6 Course: Nationalism in India	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Critically examine inter-relations between various forms of nationalism in South Asia in general and the varieties of nationalism in Indian context in particular.
CO2	Analyze nationalism in different perspectives
CO3	Understand the approaches to Indian Nationalism and emergence of organized nationalism.
CO4	Understand the working of Congress and Non-Congress Provincial Ministries and Communal Politics and Partition.

UNIT-1

Approaches to Indian Nationalism, Conceptual Debates, Emergence of Organized Nationalism.

UNIT-2

Trends till 1919 , Gandhian Movements - Nature, Programme, Social Composition, Limitations and Challenges, Major movements of Gandhi

UNIT-3

Revolutionary and Left Movements, Subhash Bose and INA and State Peoples' Movements.

UNIT-4

Working of Congress and Non-Congress Provincial Ministries, Communal Politics, Partition of India

Suggested Reading:

- Chandra Bipan and others , 1987, *Struggle for Independence of India*, New Delhi
- Desai, A.R. , 1949, *Social Background of Indian Nationalism*, Bombay
- Dhankhar, Jaiveer S. , 2000, *Prelude to Pakistan*, Delhi
- Dhankhar, Jaiveer S. , 2001, *A Short History of Hindustan Socialist Republic an Association*, Delhi
- Majumdar, R.C. , 1962-63, *History of Freedom Movement Vol. I, II, III*, Calcutta
- Malhotra, S.R. , 1971, *The Emergence of Indian National Congress*, Delhi
- Sarkar, S. , 1983, *Modern India 1885-1947*, New Delhi
- Tara Chand, 1961, *History of the Freedom Movement Vol. I, II, III, IV (4 Vols.)*, Delhi,

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M.A. History & Archaeology 4th Semester Course Code : MA/H&A /4/CC14 Course: Historiography : Concepts, Methods and Tools - 2	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Developed their ability to assess critically historical analysis and argument, past and present.
CO2	Gained an awareness of recent and contemporary debates in the theory, practice of historical writing and gained debate in history thinker.
CO3	Gained insight into how historical arguments have been and are made become aware of historiographical traditions outside the West.
CO4	Had the opportunity to think reflexively about the nature of the historical enterprise within society

UNIT-1

Modern Approaches in History:

Positivist, Marxist, Gender and History writings in History, Environment and History writings in History, Annals.

UNIT-2

Modern Indian Approaches in History:

Colonial History Writing, Nationalist History Writing, Communalist History Writing, Marxist History Writing, Cambridge School and History Writing, Subaltern School and History Writing.

UNIT-3

Major Debates in History (World & India) :

Periodization in History, Rise of Feudalism, Rise of Capitalism Origin of Imperialism, Origin of Nationalism

UNIT-4

Making a Research Proposal:

Choice of Subject, Survey of literature, Formulation of hypothesis, Identification of sources, Description of research methodology, Elaboration of research proposal.

Suggested Reading:

- Anthias, Floya and Nira Yuval-Davis, 1975, *Woman, Nation, State*, Basingstoke, Macmillan and New York St. Martin's Press.
- Bentley, Michael, 1997, *Companion to Historiography*, London Routledge.
- Bottomore, Tom, 1972, *Theories of Modern Capitalism*, New Delhi.

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- Boyd, Kelly (ed.) , 1985, *Encyclopaedia of Historians and Historical Writings*, Vols. I and II, London/Chicago, Fitzroy Dearborn Publishers.
- Burke, Peter , 2001, *Perspectives of Historical Writing*, 2nd Edn. Cambridge, Polity Press.
- Chaube, Jharkhande, 1999, *Itihaas-Darshan*, Varanasi, Vishwavidyalaya Prakashan.
- Guha, Ramchandra , 1998, *Environmentalism: A Global History*, New Delhi, Oxford University Press.
- Hilton, Rodney (ed.) , 2008, *Samantwaad Se Punjiwaad Mein Sankraman*, Delhi Granth Shilpi.
- Hobsbawm, Eric. J, 2008, *Itihaskar Ki Chinta*, Delhi Granth Shilpi.
- Hughes, J. Donald , 2006, *What is Environmental History?* Cambridge/Malden Polity Press.
- Landes, Joan B. , 1988, *Women and the Public sphere in the Age of the French Revolution*, Ithaca, NY, Cornell University Press.
- Marwick, Arthur , 1970, *The Nature of History*, Macmillan, London.
- Mukhia, Harbans , 2000, *The Feudalism Debate*, New Delhi, Manohar.
- Owen, Roger and Bob Sutcliffe (eds.) 1972, *Studies in the theory of Imperialism*, London, Longman,.
- Porter, Andrew , 1994, *European Imperialism, 1860-1914*, Basingstoke & London, The Macmillan Press.
- Sarkar, Sumit , 1997, *Writing Social History*, Oxford University Press, Delhi.
- Sreedharan, E. , 2000, *A Textbook of Historiography 500 BC to AD 2000*, Orient Longman, Delhi.
- Verma, Lal Bahadur, 1984, *Itihaas Ke Bare Mein*, New Delhi, Prakashan Sansthan.

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M.A. History & Archaeology 4th Semester Course Code : MA/H&A /4/CC15 Course: History of Ideas	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation includes mid-term examination (20 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Understand dynamism in definition of religions through time in history. How these religions were developed in different societies in different periods of time. And how it affects the everyday lives of variety of people in ancient times.
CO2	Understand how to look for variety of sources to understand various religions of ancient times which includes not just religious texts but also monuments, traditions, rituals etc.
CO3	Understand how different religions affected each other and how the beliefs shifted in different directions. And how they have sustained till today through various institutions and rituals.
CO4	Understand contribution of various tribes, classes and gender in the development, diversity and dynamism of various religious philosophies, beliefs and practices.

UNIT-1

Social, Religious and Philosophical Ideas In Ancient India:

Formation of early ideas: Varna, Jati, Family, Women.

Formation of religious ideas: Vedas, Upanishads and Vedanta, Six Schools of Indian Philosophy, Jainism and Buddhism.

UNIT-2

Political Ideas in Ancient India:

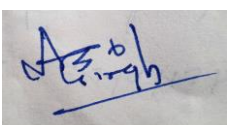
Political Institutions of Vedic Period: Central Assemblies, Sabha, Samiti, Paura Janpad, Vidhatha. Council of Ministers [Mantriparishad], Constitutions and Functions. Qualifications of Ministers, Inter State Relations-Mandala Theory, Espionage, Government: Mauryan Administration; Gupta Administration; Administration of Harsha, Administrative system under the Cholas, Judiciary, Court-Procedure and Punishment.

UNIT-3

Medieval India and History of Ideas:

A Critical study of sources, **Historian's conception & ideas:** Tahkik-ma-lil Hind (Al-Beruni), Tabkat-i-Nasiri (Minhaj), Barani's conception of History, Tarikh-i-Firozshahi, Fatwa-iJahandari, Mystic Ideology: The Mystic path, service to humanity, pacifism and non-violence, Chishti attitude towards the State, Suhrawardi attitude towards State, Historians and Histories of Mughal Empire in Akbar's reign, Views of members of Din-Ilahi, Abul Fazal's ideas of history:

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Akbarnama, Tabkat-i-Akbari, Khwaja Nizamuddin's treatment of history, Muntakhab-ut-Tawarikh Badauni's treatment of history, Babarnama, Jahangirnama, Padshahnama. Unit V Travels: Manucci, Bernier, Ibn Batuta.

UNIT-4

Modern India and History of Ideas:

Colonialism & emergence of new political ideas: Utilitarianism, Liberalism, Nationalism, Democracy, Socialism, Communalism, Secularism, Pacifism-John Ruskin & Leo Tolstoy: Impact on Indian Thought, Ideas of dissent & protest: Constitutional Opposition: Dada Bhai Naoroji; Gokhale; Swadeshi & Boycott; Passive Resistance; Satyagraha & Civil disobedience. Total Revolution, Gandhian social philosophy, Its source, ideas on religion, civilization, social reform & education, emphasis on villages, women's rights, harijan uplift, struggle against casteism, Sarvodaya & Bhoodan; Integral Humanism & Radical Humanism.

Suggested Reading :

- Arthur Lovejoy, 1936, *The Great Chain of Being: A Study of the History of an Idea*, London.
- Arthur Lovejoy, 1960, *Essays in the History of Ideas*, Capricorn Books
- Horowitz, Maryanne Cline, 2004, *New Dictionary of the History of Ideas*, New York
- Isaiah Berlin, 2013, *Against the Current: Essays in the History of Ideas*, Princeton University Press.
- Moran, Seán Farrell, 1999, *Intellectual History/History of Ideas*, Routledge
- Peter E. Gordon, 2009, *What is intellectual history? A frankly partisan introduction to a frequently misunderstood field*, Harvard University, Cambridge, Massachusetts.
- Quentin Skinner, 2002, *Meaning and Understanding in the History of Ideas*, Cambridge University Press.

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M.A. History & Archaeology 4th Semester Course Code : MA/H&A/4/CC16 Course: Cardinal Principle of Academic Integrity and Research Ethics	Total Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20
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Note: For The Paper Setter :

External:

4. Five Questions will be set in all and students will be required to attempt 3 questions.
5. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus.
6. In addition, four more questions will be set unit-wise comprising of two questions from each unit. The candidates are required to attempt two more questions selecting at least one from each unit. (10 marks each)

Internal:

2. Internal Evaluation includes mid-term examination (10 marks) covering two units of the syllabus, an Assignment (05 marks) and class Attendance (05 marks).

Course Outcomes :

CO1	Know the Academic Integrity, Plagiarism (prevention and detection) and UGC regulations.
CO2	Understand the Research and Publications ethics and best practices.
CO3	Understand the basic Ethics in the field of Research.
CO4	Know how to the research Ethics and principles shapes a good and healthy academic integrity.

UNIT-1

Academic Integrity: Introduction, Academic Integrity Values-Honesty and Trust, Fairness and Respect, Responsibility and Courage, Violations of Academic Integrity-types and consequences, Plagiarism -definition, Plagiarism arising out of misrepresentation-contract cheating, collusion, copying and pasting, recycling, Avoiding Plagiarism through referencing and writing skills, UGC Policy for Academic Integrity and prevention, Some Plagiarism detection tools.

UNIT-2

Research and Publication ethics: Scientific misconducts- Falsifications, Fabrication and Plagiarism (FPP), Publication ethics-definition, introduction and importance, Best practices/standard setting initiatives and guidelines-COPE, WAME etc., Violation of publication ethics, authorship and contributor-ship, Identification of publications misconduct, complains and appeals, Conflicts of Interest, Predatory publisher and journals.

Suggested Reading:

- Beall J (2012). *Predatory publishers are corrupting open access*, Nature, 489 (7415), 179.
- Chaddah P (2018), *Ethics in Competitive Research: Do not get scooped; do not get plagiarized*. ISBN: 978-9387480865
- Indian National Science Academy (INSA), *Ethics in Science Education, Research and Governance (2019)*. ISBN: 978-81-939482-1-7.
- MacIntyre A (1967) *A short History of Ethics*, London
- National Academy of Sciences, National Academy of Engineering and Institute of Medicine(2009) *On being a Scientist: A guide to Responsible Conduct in research*: Third Edition. National Academics press.

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- Resnik D. B. (2011) *What is ethics in research & why is it important*. National Institute of Environmental Health Sciences, 1-10.
- UGC regulations (2018), *For Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutes*.
- Ulrike Kestler, *Academic Integrity*, Kwantlen Polytechnic University.

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M.A. History & Archaeology 4th Semester Group-A (Indian Archaeology) Course Code : MA/H&A/4/DSC13 Course: Field Archaeology & Historical Archaeology of India		Total Credits: 4 Time: 3 Hrs. Marks: 100 Theory: 60 Practical: 40
Note: For The Paper Setter: External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 6 short answer type questions of 2 marks spread over the entire syllabus (2x6=12 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (12 marks each). 		
Practical: <ol style="list-style-type: none"> 1. For the practical exam students have to attend 20 to 30 days training camp in a archaeological Excavation and have to submit a practical file. 		
Course Outcomes:		
CO1	Got basic knowledge of scope of Archaeology and relation of Archaeology with social sciences & Pure sciences.	
CO2	Got knowledge about excavation, its preliminaries, staff and equipments, etc.	
CO3	Understand the Characteristics and Chronology of Northern Black Polished Ware Culture and significance of pottery.	
CO4	Study the various excavated sites i.e. Taxila, Ropar, Thanesar, Hastinapur, Atranjikhhera, Kausambi, Vaishali, Nagarahunikonda, Arikamedu	
UNIT-1 Definition and Scope of Archaeology; Relationship of Archaeology with Social Sciences and Pure Sciences; History of Indian Archaeology; Forms of Archaeological Data.		
UNIT-2 Methods of discovering the sites: Aims & Methods of Excavation, Methods of discovering the sites (Explorations); Significance of Pottery, Stratigraphy, Photography, Drawing; Chemical Treatment and Preservation of Archaeological Finds, Conservation of Monuments; Threats of Archaeological Sites and Archaeology and Public Awareness		
UNIT-3 Historical Urbanization: NBPW Culture- Extent Chronology and Characteristics, Dating: Relative, Absolute.		
UNIT-4 Detailed Study of the following excavated sites: Taxila; Ropar; Thanesar; Hastinapur; Kausambi; Vaishali		

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Suggested Reading:

- Agrawal, D.P. and Yadav, M.D., 1995, *Dating the Human Past, Indian Society for Prehistoric Studies*, Pune.
- Atkinson, R.J.C. , 1961, *Field Archaeology*, London.
- Banerjee, N.R. , 1965, *The Iron Age in India*, New Delhi.
- Chakraborti, D.K, 1988, *A History of Indian Archaeology*, Munshiram Manoharlal, Delhi.
- Child, V.G. , 1966, *Piecing together the Past*, Routledge and Kegan Paul, London.
- Choubey, Ramesh , 2007, *Puratatvik Manav Vigyan*, Madhya Pradesh Hindi Granth Academy, Bhopal.
- Crawford, O.G.S. , 1960, *Archaeology in the Field (4th Edn.)*, New York.
- Daniel, Glyn , 1967, *The Origins and Growth of Archaeology*, Harmondsworth, Penguin Books.
- Dhavalikar, M.K. , 1999, *Historical Archaeology of India*, Books and Books, Delhi.
- Drewet, Peter L., 1999, *Field Archaeology: An Introduction*, London, UCL Press.
- Gaur, R.C. , 1983, *Excavations at Atranjikhhera*, Motilal Banarsi Dass, Delhi.
- Ghosh, A. , 1973, *The City in Early Historical India*, Shimla.
- Kenyon, K.M. , 1961, *Beginnings in Archaeology*, London.
- Krishnamurthy, K. , 1995, *Introducing Archaeology*, Ajanta Publications, Delhi.
- Marshall, J. , 1951, *Taxila (Three Vols.)*.
- Ojha, Shri Krishna, 1985, *Bharatiya Puratattva*, Research Publications, Delhi.
- Plenderleith, H.J. , 1974, *The conservation of Antiquities and works of Art*, London.
- Raman, K.V. , 1986, *Principles and Methods of Archaeology*, Parthajan Publications, Madras.
- Singh, Madanmohan , 1981, *Puratattva ki Ruparekha*, Janki Prakashan, Delhi.
- Sinha, B.P. (ed.) , 1969, *Potteries in Ancient India*, Patna.
- Srivastava, K.M. , 1982, *New Era of Indian Archaeology*, Delhi.
- Thapalyal, K.K. and Shukla, S.P., 1999, *Puratattva Praveshika*, Bharat Book Centre, Lucknow.
- Wheeler, R.E.M. , 1963, *Archaeology from the Earth*, Penguin Books, London.
- Wheeler, R.E.M. , 1968, *Prithvi Se Puratattva*, Delhi.

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M.A. History & Archaeology 4th Semester Group-A (Indian Archaeology) Course Code : MA/H&A /4/DSC14 Course: Ancient Indian Epigraphy and Palaeography-II		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got the basic knowledge about the importance of various historical and cultural inscriptions i.e. Sarnath Buddhist Image inscriptions of Kanishka-I, Nasik Cave Inscriptions of Vasishthiputra Pulumavi, Girnar (junagarh) Rock inscriptions of Rudramana-I, and Mathura Stone Inscriptions of Huvishka etc.	
CO2	Got the basic knowledge about the importance of various historical and cultural inscriptions i.e. Allahabad Pillar Inscription of Samudragupta.	
CO3	Critically analyze the various aspect of inscriptions and their importance as a source of Indian History.	
CO4	Understand the importance of another various historical and cultural inscriptions i.e. Mehrauli Iron Pillar Inscription of Chandragupta, Bhitari Stone Pillar Inscription of Skandagupta, Mandisor Pillar Inscription of Yasodharman Vishnuvardhana etc.	
UNIT-1		
Historical and Cultural importance of the following inscriptions: Sarnath Buddhist Image inscription of the time of Kanishka I (Regnal year 3); Nasik cave inscription of Vasishtha Putra Pulumavi (Regnal Year 19); Girnar (Junagadh) Rock inscription of Rudradaman I; Mathura Stone inscription of Huvishka.		
UNIT-2		
Historical and cultural importance of the following inscriptions: Allahabad Pillar Inscription of Samudragupta; Mehrauli Iron Pillar Inscription of Chandragupta; Bhitari Stone Pillar Inscription of Skandagupta; Mandsaor Pillar Inscription of Yasodharman Vishnuvardhana (M.S. 589).		

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UNIT-3

Historical and cultural importance of the following inscription:

Haraha Inscription of Isanavarman; Banskhera Copper-Plate Inscription of Harsha; Aihole Inscription of Pulakesin-II; Gwalior Inscription of Mihirabhoja.

UNIT-4

Inscriptions for decipherment into Devanagari/Roman script and transliteration into original script (in part or full):

Sarnath Buddhist Image inscription of Kanishka (Regnal Year 3);
Mathura Stone Inscription of Huvishka (Year 28);
Nasik Cave Inscription of Yajna Satakarni (Year 7);
Mehrauli Iron Pillar Inscription of Chandra.

Suggested Reading:

- Agrawal, Jagannath, 1986, *Researches in Indian Epigraphy and Numismatics*, New Delhi.
- Bajpai, K.D. , 1992, *Aitihāsik Bhārtiya Abhilekh*, Jaipur.
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- Gupta, P.L. , 1979, *Prachin Bharat Ke Pramukh Abhilekh*, Part-I, Varanasi.
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- Ojha, G.H. , 1959, *Prachin Bhārtiya Lipimāla*, Delhi.
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- Sircar, D.C. , 1965, *Indian Epigraphy* (trans. in Hindi by K.D. Bajpai), Motilal Banarsidass, Delhi.
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- Thaplyal, K.K. , 1985, *Inscriptions of Maukhris, Later Guptas, Pushyabhutis and Yashoverma of Kanauj*, Delhi.
- Upadhyaya, V, 1974 , *Gupta Abhilekh*, Patna.
- Upadhyaya, V. , 1961, *Prachin Bhārtiya Abhilekhon Ka Adhyayana*, Delhi.

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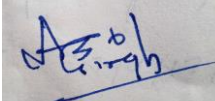
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M.A. History & Archaeology 4th Semester Group-A (Indian Archaeology) Course Code : MA/H&A/4/DSC15 Course: Ancient Indian Numismatics-II		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got the basic knowledge about the Kushana Numismatics and Early Coins of south and western India.	
CO2	Understand the Gupta Coins.	
CO3	Obtain the interpretation of the numismatic iconography as an important source for historical, artistic studies and understand the Early medieval coins.	
CO4	Learn how identify coins of several periods and understand the decipherment and transliteration of Greek script(Gold coins only).	
UNIT-1		
Kushana Numismatics: Early Kushana Coins: Kujula Kadphises; Soter magus and Wima Kadphises; Kushan Sassanid Coins; Kidara Kushan, Puri Kushana Coins.		
UNIT-2		
Early Coins of South and Western India: Satavahana Coins; Western Kshatrapa Coins; Roman and Byzantine Coins in India.		
UNIT-3		
Gupta Coins: Coins of Chandragupta- I and Kacha Gupta; Coins of Samudragupta; Coins of Chandragupta-II; Coins of Kumaragupta; Coins of Skanda Gupta.		
UNIT-4		
Early Medieval Coins: Huna Coins; Gurjara Pratihara Coins; Shahi Coins.		
Coins for Decipherment (gold coins only): Kushana Coins and Gupta Coins		

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Suggested Reading:

- Altekar, A.S. , 1954, *The Coinage of the Gupta Empire*, Varanasi.
- Altekar, A.S. , 1972, *Gupta Kalina Mudrayen*, Patna.
- Bajpai, K.D. , 1976, *Indian Numismatic Studies*, New Delhi.
- Bhandarkar, D.R. , 1984, *Carmichael Lectures, Ancient Indian Numismatics*, Patna.
- Chakraborti, Swati, 1986, *Socio-religious and Cultural Study of Ancient Indian Coins*, Delhi.
- Chattopadhyaya, B. , 1964, *The Age of the Kushans: A Numismatic Study*, Calcutta.
- Cunningham A. , 1971, *Coins of Ancient India*, Varanasi.
- Dutta, M. , 1996, *A Study of the Satavahana Coinage*, New Delhi.
- Gopal, L. , 1966, *Early Medieval Coin types of Northern India*, Varanasi.
- Gupta, P.L. , 1996, *Coins*, New Delhi.
- Rao, Rajvant & Rao, P.K. , 1998, *Prachin Bhartiya Mudrayen*, Motilal Banarsidass, Delhi.
- Santosh Bajpai, 1997, *Aitihāsik Bhārtiya Sikke*, Delhi.
- Satya Shreva, 1985, *The Kushana Numismatics*, Delhi.
- Sharma, I.K. , 1980, *Coinage of the Satavahana Empire*, New Delhi.
- Thakur, Upendra , 1972, *Mints and Minting in India*, Varanasi.
- Upadhyaya, V. , 1986, *Prachina Bhartiya Sikke*, Allahabad.

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M.A. History & Archaeology 4th Semester Group-B (Ancient India) Course Code : MA/H&A/4/DSC16 Course: Political History of India (C. 320 AD to 1200 AD)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got the basic knowledge about the Imperial Guptas i.e. Early Kings, Samundagupta's achievements, Ramgupta, Chandra Gupta and Skandagupta	
CO2	Understand the accouns of Fa-hien, Emergence of New powers i.e. The Hunas and The Maukharis.	
CO3	Understand the Pushpabhutis, Harshvardhana and accounts of Huien-Tsang.	
CO4	Understand critically evaluate the knowledge of human evolution in world scenario as well as India.	
UNIT-1		
Gupta Empire: Early Gupta; Samudragupta, Ramgupta, Chandragupta-II, Skandagupta Aftermath; Decline - Later Guptas; Nature and Administration; Fa-hien Accounts.		
UNIT-2		
Emergence of New Powers: Hunas; The Maukharis; Pushyabhutis: Expansion, Harshvardhan - Political Administration, Achievements; Account of Huen-Tsang.		
UNIT-3		
New Political Powers and struggles there in: Yashovarman of Kannauj; Palas; Pratihars; Rashtrakuta.		
UNIT-4		
Regional Powers: Chalukyas; The Chandelas; Parmars; Chahamanas; Gahadavalas; Pallavas; Cholas.		

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Suggested Reading:

- Ayanger, K. , 1984, *South Indian History and Culture*, Bombay.
- Chatterjee, G. , 1950, *Harsha Vardhana* (in Hindi, 2nd edn), Allahabad.
- Chattopadhyaya, S. , 1993, *Early History of North India*, Delhi.
- Devahuti, D. , 1970, *Harsha : A Political Study*, Oxford University Press.
- G. H. Ojha , 1956, *History of Rajputana*, Delhi.
- Goyal, S.R. : , 1986, *The Imperial Guptas*, Meerut.
- Majumdar, R.C. & Altekar, A.D. , 1967, *The Vakataka- Gupta Age* (English (ed.) Hindi), Motilal Banarsidass, Delhi.
- Majumdar, R.C. , 1966, *Struggle for Empire*, 2nd edn. Bombay.
- Majumdar, R.C. , 1990, *The Classical Age*, 3rd edn. Bombay.
- Majumdar, R.C., 1970, *Age of Imperial Kanauj*, Bhartiya Vidya Bhavan, Bombay, (3rd Edn.).
- Mitra, S.K. , 1977, *Early Rulers of Khajuraho*, Motilal Banarsi Dass, 2nd (edn.) Delhi.
- Pathak, V. , 1974, *Uttari Bharat Ka Rajnitik Itihas*, Delhi.
- Puri, B.N. , 1937, *History of Gurjara Pratiharas*, Bombay.
- Rai, Udai Narain , 1982, *Gupta Samrata aur Unka Kala*, Delhi.
- S.Prakash , 1999, *Bharat Ka Itihas: Rajput Kal*, Jaipur.
- Sastri, K.A.N. , 1975, *The Cholas*, University of Madras, Madras.
- Sharma, Dashrath , 1952, *Early Chauhan Dynasties*, Delhi.
- Sharma, Dasrath , 1966, *Rajasthan through the Ages*, Bikaner.
- Thakur, Upendra , 1976, *The Hunas in India*, Delhi.
- Tripathi, R.S. , 1937, *History of Kanauj*, Banaras.
- Yazdani, G. , 1982, *The Early History of Deccan*, Oriental Book-reprint Corporation, New Delhi.

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M.A. History & Archaeology 4th Semester Group-B (Ancient India) Course Code : MA/H&A/4/DSC17 Course: Society and Culture of India-2 (ET-C.1200 A.D.)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes :		
CO1	Students get basic knowledge about the Kusanas, Satavahans and Sangam Age : Society and Culture.	
CO2	Student understand the general features and culture of Gupta and Post-Gupta Society.	
CO3	Student understand the social institutions i.e. Untouchability, labour and education and educational institutions.	
CO4	Students understand the status of women during that time.	
UNIT-1		
Society and Cultures: Kusanas; Satavahanas; Sangam Age.		
UNIT-2		
Gupta and Post Gupta Society: General features of Society and Culture; Early Medieval Society; Communication and Social Cohesion		
UNIT-3		
Social Institutions: Untouchability; Labour; Education and Educational Institutions.		
UNIT-4		
Status of Women: Family; Marriage; Education; Property rights.		
Suggested Reading: <ul style="list-style-type: none"> • Altekar, A.S. , 1975, <i>Education in Ancient India</i>, Varanasi. • Altekar, A.S. , 1999, <i>Position of Women in Hindu Civilization</i>, Delhi. • Bhattacharya, S.C. , 1978, <i>Some Aspects of Indian Society from 2nd Century B.C. to 4th Cent. A.D.</i>, Calcutta. • Chakladar, H.C. , 1976, <i>Social Life in Ancient India</i>, Delhi. • Chattopadhyaya, B. , 1978, <i>Kushana State and Indian Society</i>, Punthi Pustak, Calcutta. 		

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- Ghurye, G. S. , 1969, *Caste and Race in India*, Bombay.
- Hutton, J.H. , 1946, *Caste in India*, Cambridge University.
- Kane, P.V. , 1930, *History of Dharamshastra* (Relevant Vols.) Bhandarkar Orient Research Institute, Pune.
- Pandey, R.B. , 1969, *Hindu Samskara*, Motilal Banarsidass (2nd), Delhi.
- Prabhu, P.N. , 1940, *Hindu Social Organization*, Popular Prakashan, Bombay.
- Rapson, E.J. , 1955, *The Cambridge History of India Vol. I* (ed.), Delhi.
- Sharma, R.S. , 1969, *Social change in Early Medieval India*, Delhi.
- Sharma, R.S. , 1980, *Surdas in Ancient India*, Motilal Banarsidass, (2nd) Delhi.
- Sharma, R.S. , 1983, *Material culture and Social formations in Ancient India*, Macmillan Delhi.
- Sharma, R.S. , 1983, *Perspectives in Social and Economic History of Early India*, Munshiram, Manohar Lal Publishers, New Delhi.
- Shastri, K.A. N. , 1987, *Comprehensive History of India Vol. II*(ed.), Reprint, Delhi.
- Thapar, Romila , 1968, *Asoka and Decline of the Mauryas*, Delhi.
- Thapar, Romila, 1972, *Ancient Indian Social History-Some interpretations*, Delhi.
- Thapar, Romila, 1984, *From Lineage to Caste*, Delhi.
- Wagle, W.G. , 1969, *Society at the time of Buddha*, Bombay.
- Yadav, B.N.S. , 1973, *Society and Culture of Northern Indian in the 12th Century*, Central Book Depot, Allahabad.

M.A. History & Archaeology 4th Semester
Group-B (Ancient India)
Course Code : MA/H&A/4/DSC18
Course: Economic History of India-2 (ET-C.1200 A.D.)

Total Credits: 4
Time: 3 Hrs.
Marks: 100
External: 70
Internal: 30

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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes :

CO1	Got basic knowledge about the Imperial system i.e. Gupta and Post-Gupta Economy, Feudal Economy and peasantry.
CO2	Understand the Agrarian Economy i.e. Land System-Land Revenue, Ownership of Land, Irrigation System.
CO3	Understand the Emergence and Growth of Industries i.e. Metal, Pot Making, Textile, Guilds in Buddhist Period and Trade and Commerce in Buddhist period
CO4	Understand the Trade and Commerce and Foreign Trade with special reference to Western and South East Asia.

UNIT-1

Imperial system:

Gupta and Post Gupta Economy-Salient features; Feudal Economy; Peasantry.

UNIT-2

Agrarian Economy:

Land System-Land Revenue; Ownership of Land; Irrigation System.

UNIT-3

Trade & Commerce:

Inland Trade; Foreign Trade with special reference to Western and South East Asia; Decline of Trade and Commerce.

UNIT-4

Deccan:

Patterns of Economic developments South India; Agrarian economy; Economic importance of Temple's economy; Trade and Guilds; Fairs and Festivals.

Suggested Reading:

1. Adhey, G. L. , 1966, *Early Indian Economics*, Asia Publishing House, Delhi.
2. Dass, D.R. , 1969, *Economic History of the Deccan*, Delhi.
3. Ghoshal, U.N. , 1929, *Contribution to the History of Hindu Revenue System*, Calcutta.
4. Ghoshal, U.N. , 1973, *Agrarian System in Ancient India*, Calcutta University, 2nd (ed.) Calcutta.
5. Gopal, Lallanji , 1989, *Economic Life in Northern India*, Motilal Banarsidass, 2nd (ed.)

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6. Jha, D.N. , 1967, *Revenue System in Post Mauryan and Gupta Times*, Punthi Pustak, Calcutta.
7. Jha, D.N. , 1980, *Studies in Early Indian Economic History*, Anupma Publishers, Delhi.
8. Maity, S.K. , 1957, *Economic Life of Northern India in the Gupta Period*, World Press, Calcutta.
9. Majumdar, B.P. , 1960, *Socio-economic History of Northern India*, Calcutta.
10. Sharma, R.S. , 1983, *Material Culture and Social formations in Ancient India*, Macmillan, Delhi.
11. Sharma, R.S. , 1995, *Perspective in Social & Economic History of Early India 2nd (edn.)* Munshiram Manoharlal, New Delhi.
12. Sircar, D.C. (ed.) , 1966, *Land System and Feudalism in Ancient India*, Calcutta University Press, Calcutta.
13. Spengler (ed.) , 1971, *Indian Economic Thought*, Duke University Press.
14. Srivastava, B. , 1968, *Trade & Commerce in Ancient India*, Varanasi.
15. Yazdani, G. , 1982, *Early History of Deccan*, Oriental Book reprint, New Delhi.

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M.A. History & Archaeology 4th Semester Group-C (Medieval India) Course Code : MA/H&A/4/DSC19 Course: Political History of India (C. 1526 to 1707 AD)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got basic knowledge about the Mughal Sources & Mughal theory of Sovereignty.	
CO2	Understand the Abul Fazal and Mughals theory of Kingship, Nature of Mughal State..	
CO3	Understand the evolution of Mughal administrative institutions, central administration and provincial Administration.	
CO4	Understand the composition and role of Nobility, Karkhanas and Military Organization.	
UNIT-1		
Sources and Historiography of Mughal History, Foundation of Mughal Rule in India under: Babur, Humayun, Sher Shah Suri		
UNIT-2		
Consolidation of Mughal Empire under: Akbar, Jahangir Development and Disintegration of Mughal Empire: Shahjahan, War of Succession and Rise of Aurangzeb, Later Mughal's.		
UNIT-3		
Mughals In South India: Bider, Berar, Ahmednager, Bijapur, Golconda, Shivaji and Marathas, Marathas in 18th – 19th Century.		
UNIT-4		
Rise of Sikh Power: Sikh Guru's and Teachings of Sikhism, Sikh Empire till 1849 A.D., Revolt of 1857 and Mughal Empire.		
Suggested Reading: <ul style="list-style-type: none"> • Alam, Iqtidar , 1975, <i>The Middle Classes in the Mughal Empire</i> (Presidential Address) IHC, Aligarh. • Ather, Ali , 1997, <i>Mughal Nobility under Aurangzeb</i>, Delhi. • Aziz, Ahmed, 1964, <i>Studies in Islamic Culture in the Indian Environment</i>, Oxford. • Bhandarkar, R.G. , 1959, <i>Vaishnavism Shaivism and minor Religious System</i>, Poona. • Chandra, Satish, 1997, <i>Historiography, Religion and State in Medieval India</i>, Delhi. • Chandra, Satish, 1999, <i>Medieval India Part II Mughal Empire 1526-1748</i>, Delhi. 		

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- Habib, Irfan , 1999, *Agrarian System of Mughal India*, Delhi
- Habib, Irfan, 1981-2003, *Madhya Kaleen Bharat Vols. 1 to 8 (Relevant Articles)*, New Delhi.
- Habib, Irfan, 2002, *Bhartiya Itihas Mein Madhyakal*, Delhi.
- Hussain, Yusuf , 1962, *Glimpses of Medieval Indian Culture*, Delhi.
- Mahender, Singh, 2020, *Bharat Europiya Yaatriyon ki Drishti mein*, Delhi.
- Majumdar, A.K. , 1965, *Bhakti Renaissance, Bhartiya Vidya Bhawan*, Bombay.
- Mansura Haider: , 2004, *Sufis, Sultans and Feudal Orders*, Delhi.
- Misra, Rekha , 1967, *Women in Mughal India*, Allahabad.
- Moreland, W.H. , 1990, *India at the Death of Akbar*, Delhi.
- Nizami, K.A. , 1978, *Some Aspects of Religion and Politics in India during the 13th Century*, Delhi.
- Nizami, K.A. , 1985, *Society and Culture in Medieval India*, Delhi.
- Rizvi, S.A.A. , 1997, *A History of Sufism in India 2 Vols.*, Delhi.
- Saxena, R.K. , 1996, *Madhya Kaleen Bharat Ki Arthik Pahloo*, Jaipur.
- Sharma, G.D. , 1992, *Madhya Kalin Bharat Ki Rajnitik, Samajik Avam Aarthik Sansthayen* (in Hindi), Jaipur.
- Tara Chand , 1976, *Influence of Islam on Indian Culture*, Allahabad.
- Verma, H.C. , 1983, *Madhya Kaleen Bharat Vol. I & II* (in Hindi) Delhi.

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M.A. History & Archaeology 4th Semester Group-C (Medieval India) Course Code : MA/H&A/4/DSC20 Course: Political Institutions (C. 1200 to 1707 AD)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got basic knowledge about the sources of Mughal History, Construction of Imperial Authority, Legitimacy and Kingship.	
CO2	Understand the relations with Rajputs, Zamindari Policy of the Mughals, Mansabdari System.	
CO3	Understand the provincial government, central government and nature of Mughal.	
CO4	Understand the Decline of Mughal and the Eighteenth Century Debate, Modern Historiography on the Decline	
UNIT-1		
Theory of Sovereignty: Sultanate & Mughals Theory of Kingship: Sultanate & Mughals Theory of Legitimacy: Sultanate & Mughals		
UNIT-2		
Nature of State: Sultanate State & Mughal State Administration: Central & Provincial: Sultanate Period & Mughal Period		
UNIT-3		
Nobility: Composition and Functioning: Sultanate Period & Mughal Period Military Organization: Under Sultans & Under Mughals		
UNIT-4		
Policies of The Mughal State (1526-1707A.D.): Religious Policy, Rajput Policy, South India Policy, North-West Frontier Policy		
18th Century and Mughal State: 18th Century Debate, Rise of Regional States : Bengal, Awadh and Hyderabad and Mughals policy Towards them		
Suggested Reading : <ul style="list-style-type: none"> • Ali M. Athar , 1989, <i>Recent Theories of Eighteenth Centuries India</i>, The Indian Historical Review. • Ali M. Athar, 1993, <i>The Mughal Polity-A Critique of Revisionist Approaches</i>, Modern Asian Studies. • Ashraf, K.M. , 1990, <i>Life and Condition of the people of Hindustan</i>, Delhi, 1990. • Burton Stein ,1990, <i>A Decade of Historical Efflorescence</i>, South Asia Research. • Chandra, Satish, 1998, <i>Medieval India-Vol . I (From Sultanate to the Mughal)</i>, New 		

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- Day, U.N. , 1993, *Government of Sultanate*, New Delhi.
- Douglas E. Streusand , 1989, *The Formation of the Mughal Empire*, Oxford University Press Delhi.
- Habib Irfan , 1963, *The Agrarian System of Mughal India: 1556-1707*, Asia Publishing House, New York.
- Habib Irfan, 1981-2003, *MadhyaKaleen Bharat Vols. I-VIII* (in Hindi Relevant articles), New Delhi.
- Habib Irfan, 1992, *Researches in the History of India 1200-1750*, Delhi.
- Habibullah, A.B.M. , 1992, *A Foundation of Muslim rule in India*, Allahabad.
- Harbans Mukhia , 1993, *Perspectives on Medieval History*, New Delhi.
- Hermann Kulke (ed.) , 1997, *State in India 1000-1700*, OUP, New Delhi.
- Hitti, P.K. , 1970, *History of the Arabs*, London.
- J.F. Richards , 1978, *Kingship and Authority in South Asia*, University Of Wisconsin-Madison Publication Series.
- Lal, K.S. , 2001, *Historical Essays (Relevant Articles), Vol.II*, Delhi
- Muhibbul Hasan , 1968, *Historians of Medieval India*, Meerut.
- Nigam, S.B.P. , 1968, *Nobility under the Sultans of Delhi*, Delhi.
- Nizami , K.A. , 1978, *Some aspects of Religion and Politics in India during the Thirteenth Century*, Delhi.
- Qureshi, I.H. , 1942, *Administration of the Sultans of Delhi*, Lahore.
- Richard B, Barnett (ed.) , 2002, *Rethinking Early Modern India*, Delhi.
- Rizvi, S.A.A. , 1956, *Aadi Turk Kaleen Bharat*, Aligarh.
- Rizvi, S.A.A. , 1987, *The Wonder that was India, Vol. II*, London.
- Satish Chandra, 1996, *Essays on Medieval Indian Economic History*, New Delhi.
- Satish Chandra, 2003, *Essays on Medieval Indian History*, New Delhi, OUP.
- Siddiqui, I.H. , 2004, *Authority and Kingship under the sultans of Delhi (13th-14th Centuries)*, Delhi.
- Tripathi, I.R.P. , 1989, *Some Aspect of Muslim Administration*, Allahabad.
- Verma, H.C., *Madhya Kaleen Bharat Vol. I 750- 1540 A.D.*, Hindi karyalya Madhyam Anveshan D.U.

Anil Kumar

P.N. Singh

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M.A. History & Archaeology 4th Semester Group-C (Medieval India) Course Code : MA/H&A/4/DSC21 Course: Economy of India (C. 1526-1757 A.D.)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got basic knowledge about the Land Revenue System, Categories of Peasants and Village Community.	
CO2	Understand the Jagir System and its crisis, Agrarian Crisis, Ijara System and Madadi-Maash Grants.	
CO3	Understand the Potentialities fo Capitalists Development under the Mughals, Dadni system, Role of Nexus etc.	
CO4	Understand the Industries and Mineral Resources, Trade and Commerce : Inland and External Trade, Centres of Large Scale Production and Euro-Indian Trade : Merchants and Brokers.	
UNIT-1 Land Revenue System : Magnitude : Methods of Assessment, Mode of Payment; Other Rural Taxes and Exaction, Categories of Peasants, Village Community		
UNIT-2 Jagir System and its crisis, Agrarian Crisis, Ijara System, Madad-i-Maash Grants		
UNIT-3 Potentialities of Capitalists Development under the Mughals, Usuary, Dadni System, Role of Cash Nexus		
UNIT-4 Industries and Mineral Resources, Trade and Commerce : Inland and External Trade, Centres of Large Scale Production, Euro-Indian Trade : Merchants and Brokers		
Suggested Reading: <ul style="list-style-type: none"> • Afzal, Ahmed, 2008, <i>Indo-Portuguese Diplomacy during the 16th and 17th Centuries (1500-1663)</i> Originals, Delhi • Bagchi Arniya Kumar Ed. , 2002, <i>Money and Credit in Indian History</i>, Tulika • Bayly, C.A. , 1992 ,<i>Rulers, Townsmen and Bazaars North Inian Society in the age of British Expansion 1770-1870</i>, OUP. • Chandra Satish (Ed.) , 2008, <i>Religion, State and Society in Medieval India</i>, OUP • Chandra, Satish, 2007, <i>Medieval India-from Sultanate to the Mughals, Vol. 1 and II</i> 		

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(English & Hindi), New Delhi.

- Chaudhary, Tapan Ray, 1982, *Cambridge Economic Irfan Habib (ed.) : History of India (c.1200-1750 A.D.) Vol. I* OUP
- Habib Irfan (Ed.) ,1992, *Medieval India* Habib Irfan (Ed.) : *Researches in the History of India 1200-1750* (Hindi and English), OUP
- Methew, K.S. , 1983, *The Portuguese Trade with India in the Sixteenth Century*, New Delhi
- Mukhia, Harbans , 1993, *Perspectives on Medieval History*, New Delhi
- Panikar K.N. Byres T.T. & Pathnaik, 1998 , *The Making of History-Essays Presented Utsa to Irfan Habib & Utsa Pathnaik Om Parkaksh : European Commercial Enterprise in Pre-Colonial India*, OUP
- Seema Alvi (Ed.) , 2008 ,*The Eighteenth Century in India*, OUP.
- Siddiqui N.A. , 1970, *Land Revenue Administration under the Mughals (1700-1750)*, APH, Bombay
- Subramanyam Sanjay Ed., *Merchants, Markets and the State in Early Modern India*, Delhi, 1990 " & *Merchants Networks in the Early Modern World*,
- Verma, H.C. , 1971, *Medieval Routes to India Chicherov*, Manohar Delhi
- W.H. Moreland , a) *Agrarian System of Moslem India*, (Reprint) New Delhi, 1968 " : b) *India at the death of Akbar*, (Reprint) New Delhi, 1990 " : c) *From Akabar to Aurangzeb : A Study in Indian Economic History* (Reprint) New Delhi

M.A. History & Archaeology 4th Semester
Group-D (Modern India)
Course Code : MA/H&A/4/DSC22
Course: Indian National Movement (C. 1885-1947 A.D.)

Total Credits: 4
Time: 3 Hrs.
Marks: 100
External: 70
Internal: 30

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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Got basic knowledge about the emergence of the mass movements. civil disobedience movement etc.
CO2	Understand the last phase of Revolutionary Movement. Indian National Congress and Socialist Movement.
CO3	Understand the Quit Indian Movement, Emergence of States People's Conference, Praja Mandal Movement.
CO4	Understand the Communalism at its Zenith. To understand the British Response Transfer of Power.

UNIT-1

Indian Nationalism: Emergence, Causes and Approaches, Emergence of Indian National Congress, **Nationalist Agitation (1885-1919):** Moderates : Programmes and Ideology, Extremists : Programmes and Ideology, Swadeshi Movement, Home Rule Movement

UNIT-2

Communal Politics:All India Muslim League, Hindu Mahasabha, Lucknow Pact
Emergence of Mass Movement:Non-Cooperation and Khilafat Movement, Civil Disobedience Movement, Quit India Movement

UNIT-3

The Revolutionary Movement and constitutional development: Early Phase, Hindustan Socialist Republican Association (HSRA), Rise of Left Politics, Forward Bloc- I.N.A., Marley-Minto Reforms, Montague Chelmsford Reforms, Government of India Act (1935)

UNIT-4

Communal Politics and Constitution Deadlock:Demand for Pakistan, Growth of Muslim League, Cripps Mission – 1942, Cabinet Mission- 1946, Mountbatten Plan -1947

Suggested Reading:

- Brown, Judith , 1972, *Gandhi's Rise to Power: Indian Politics 1915-1922*, Cambridge.
- Bhaskar, Arvind, 2021, *Bharat Ka Swatantrta Sangram (Part-1&2)*, Kalam Publication
- Chandra Bipan, 1987, *Communalism in Modern India*, New Delhi.
- Chatterjee, Rakhhari , 2020, *Gandhi aur Ali Bandhu*, Sage Bhasha Publication
- Das, M.N. , 1964, *India under Morley and Minto*, London.
- Desai, A.R, 2018, *Bhartiya Rashtarvaad kee Samajik Prashtbhoomi*, Sage Bhasha Publication
- Desai, A.R. , 1959, *Social Background of Indian Nationalism*, Bombay.

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- Dhankhar, Jaiveer S. , 2000, *Prelude to Pakistan*, Delhi.
- Dhankhar, Jaiveer S. , 2001, *A Short History of Hindustan Socialist Republic an Association*, Delhi.
- Dutt, R.P. , 1949, *India Today*, Bombay.
- Gopal, S. , 1975, *JawaharLal Nehru Vol. I-3*, Delhi.
- Madame Bhikaji Cama, 1952, *A True Nationalist*, Delhi.
- Majumdar, R.C. , 1962-63, *History of Freedom Movement Vol. I, II, III*, Calcutta.
- Mehrotra, S.R. , 1971, *The Emergence of Indian National Congress*, Delhi.
- Minault, Gail , 1982, *Khilafat Movement: The Religious symbolism and Political Mobilization in India*, New York.
- Mujeeb, M, 1967, *Indian Muslims*, London.
- Pradhan, G. , 1924, *India's Struggle for Swaraj*, Madras.
- Ravinder Kumar , 1971, *Essays in Gandhian Politics: The Rowlatt Satyagraha of 1919*, London.
- Sarkar, S. , 1973, *Swadeshi Movement in Bengal-1903-1908*, New Delhi.
- Sarkar, S. , 1983, *Modern India 1885-1947*, New Delhi.
- Seal, Anil, 1968, *The Emergence of Indian Nationalism*, Cambridge.
- Singh, Parduman, 2001, *Lord Minto and Indian Nationalism 1905-1910*, Delhi.
- Tara Chand , 1961, *History of the Freedom Movement Vol. I, II, III, IV (4 Vols.)*, Delhi.
- Tripathi, A. , 1967, *The Extremist Challenge: India between 1890-1910*, Calcutta.
- Wolpert Stanley A. , 1962, *Tilak and Gokhle*, California.
- Yadav, B.D, 1992, *Allan Octavian Hume-Father of the Congress*, Delhi

M.A. History & Archaeology 4th Semester

Group-D (Modern India)

Course Code : MA/H&A/4/DSC23

Course: Society and Culture of India-II (C. 1757-1947 A.D.)

Total Credits: 4

Time: 3 Hrs.

Marks: 100

External: 70

Internal: 30

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Note: For The Paper Setter :

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Got basic knowledge about the rise of new classes and role of middle class in Modernization.
CO2	Understand the causes and anture of Indian Cultural Renaissance Raja Ram Mohan Roy and Brahma Samaj and Ram Krishnan Mission.
CO3	Understand the Wahabi Movement and Arya Samaj Movementm and Aligarh Movement.
CO4	Understand the Rise and Growth of depressed class movement, untouchability etc.

UNIT-1

New Classes: Rise of New Classes, Role of Middle Class in Modernization

Tradition and Modernity: Concept, Process

UNIT-2

Indian Cultural Renaissance: Causes and Nature, Raja Ram Mohan Roy and Brahma Samaj

Legacy of Cultural Renaissance: Ram Krishan Mission, Theosophical Society

UNIT-3

Revivalist Movements: Wahabi Movement, Arya Samaj Movement

Aligarh Movement: Sir Syed Ahmed Khan and Aligarh Movement, Role in Education, Impact of Indian Muslims

UNIT-4

Depressed Class Movement: Its Rise and Growth, Problem of Untouchability, Factors for its Amelioration

British Rule and Indian Society: Impact, Continuity and change

Anil Kumar

P.N. Singh

J.S. Singh

A.S. Singh

Suggested Reading:

- Ahmed, A.F.S. , 1965, *Social Ideas and Social Change in Bengal, 1818-1835*, London.
- Ahmed, Q. , 1966, *The Wahhabi Movement in India*, Calcutta.
- Baird, Robert (ed.) , 1981, *Religion in India*, Delhi.
- Bhaskar, Arvind, 2021, *Bharat Ka Swatantrta Sangram (Part-1&2)*, Kalam Publication
- Das, M.N., Chopra, P.N. and Puri, B.N. ,1976, *Social and Economic History of India, III*, New Delhi
- De, Barun , 1988, *Presidential Address to the Indian History Congress*, Dharwad Session.
- Desai, A.R. , 1981, *Social Background of Indian Nationalism*, Bombay.
- Heimsath, Charles, 1964, *Indian Nationalism and Hindu Social Reform*, Princeton
- Jain, M.S. , 1965, *The Aligarh Movement*, Agra.
- Jones, Kenneth W. , 1976, *Arya Dhaarm*, Berkeley.
- Jones, Kenneth W. , 1994, *Socio-Religious Reform Movements in British India*, The New Cambridge History of India, Cambridge University Press, New York.
- Leach and Mukherjee , 1992, *Elites in South Asia*, Cambridge.
- Majumdar, B.B. , 1957, *History of Indian Social and Political Ideas*, Delhi.
- Misra, B.B. , 1978, *The Indian Middle Class*, Delhi.
- Narain, V.A. , 1968, *Social History of Modern India*, Patna.
- Nattrajan, Nalani , 2019, *Atlantic Gandhi*, Sage Bhasha Publication.
- Niranjana-Tejaswini, P. , 1972, *Interrogating Modernity: Culture and Society in India*, Delhi.
- O' Malley, L.S.S. , 1941, *Modern Indian and the West*, London.
- Pavloy, V.L. , 1991, *Indian Middle Class: Its Origin and Development*, OUP.
- Rai, Lala Lajpat , 1924, *A History of the Arya Samaj*, Lahore.
- Ranade, M.G. , 1930, *Religion and Social Reforms, Collection of Essays and Speeches*, Bombay.
- Rao, M.S.A. (ed.) , 1979, *Social Movements and Transformation*, Delhi
- Sarkar, S. , 1972, *Ram Mohan Roy and the Break with the Past*(ed) V.C. Joshi, Delhi.
- Sinha, P. , 1965, *Social Change in NK Singh (ed.) History of Bengal*, Calcutta.
- Smith, W.C. , 1943, *Modern Islam in India*, London.
- Srinivas, M.N. , 1998, *Social Change in Modern India*, Delhi.
- Sudhir & Vivek Dhareshwar, 1981, *Colonialism in India*, Delhi.
- Unnithan, T.K.N, Indra Deva Yogendra Singh (eds.) , 1990, *Towards a Sociology of Culture in India*, OUP.

Anil Kumar

P.N. Chopra

J.S. Ranade

N.K. Singh

M.A. History & Archaeology 4th Semester Group-D (Modern India) Course Code : MA/H&A/4/DSC24 Course: Economic History of India-II (C. 1757-1947 A.D.)		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter :</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Got basic knowledge about the foreign trade in colonial India with reference to Mercantilism, Industrial Capitalism and Finance Capitalism, Price Movements, Tarriff policy.	
CO2	Understand the Urban Markets and growth/decline of urban centres in colonial India, Industries and Industrial policy in colonial India.	
CO3	Understand the theory about the Drain of wealth , Banking System.	
CO4	Understand the environment, forests and the colonial state, labour and the trade union movement, consequences of colonial rule on Indian economy.	
UNIT-1		
Foreign trade: Mercantilism, Industrial capitalism, Finance capitalism, Price Movements, Tariff Policy		
UNIT-2		
Industrial and Market Growth: Markets and growth, Urban centres in colonial India, Industries Cotton textiles, Jute, iron and steel, Industrial policy in colonial India, Artisans and small-scale industry, especially handlooms		
UNIT-3		
Drainage and Taxation System: Theories about the Drain of wealth, Tax Structure, Public Expenditure, Government Revenues under the Crown, especially as per Act(s) of 1919 & 1935, Banking system		
UNIT-4		
Impact of British Rule: Environment and Forests Policy, Labour and the trade union movement Consequences of Colonial rule in India.		
Suggested Reading: <ul style="list-style-type: none"> • Bagchi, Amiya Kumar, 1972-1979, <i>Private investment in India 1900-1939</i>, New Delhi. • Bagchi, Amiya Kumar, 1989, <i>Presidency Banks and the Indian Economy 1876-1914</i>, Calcutta. • Bhaskar, Arvind, 2021, <i>Bharat Ka Swatantrta Sangram (Part-1&2)</i>, Kalam Publication • Bhattacharya, Dhires , 1989, <i>A Concise History of Indian Economy: From the Mid-</i> 		

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J.S. Singh

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Eighteenth to the Present Century, New Delhi.

- Bhattacharya, Sabyasachi & Jan Lucassen, 2005, *Workers in the Informal Sector: Studies in Labour History*, New Delhi : Macmillan India.
- Bhattacharya, Sabyasachi , 1990, *Adhunik Bharat Ka Arthik Itihaas*, New Delhi and Patna : Rajkamal Prakashan.
- Chandvarkar, Rajnarayan , 1998, *Imperial Power and Popular Politics: Class, Resistance and the State in India, 1850-1950*, Cambridge University Press.
- Chaudhari, K.N. , 1983, *Foreign Trade and Balance of Payments (1757-1947)*, in Dharma Kumar (ed.) (1983), *Cambridge Economic History of India Volume II*.
- Davey, Brian , 1975, *The Economic Development of India Nottingham*, Spokesman Books.
- Gadgi, D.R., 1973, *The Industrial Evolution of India in recent Times, 1860-1939*, Delhi : Oxford University Press, Fifth ed..
- Habib, Irfan (Revised edn.) , 2006, *Indian Economy 1858-1914*, New Delhi.
- Mishra, Girish , 2004, *Adhunik Bharat Ka Arthik Itihaas*, New Delhi.
- Ray, Rajat K. , 1979, *Industrialization in India: Growth and Conflict in the Private Corporate Sector, 1914-47*, Delhi, Oxford University Press.
- Roy, Tirthankar , 2006, *The Economic History of India, 1857-1947*, Second Edition, New Delhi, Oxford University Press.
- Singh, V.B. (ed.) , 1975, *Economic History of India 1857-1956*, New Delhi.

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M.A. History & Archaeology 4th Semester Course Code : MA/H&A /E9/OEC7 Course: History of Indian Peninsula		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
<u>Note: For The Paper Setter:</u>		
External: <ol style="list-style-type: none"> 1. Nine questions will be set in all and students will be required to attempt 5 questions. 2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks) 3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Internal: <ol style="list-style-type: none"> 1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks). 		
Course Outcomes:		
CO1	Critically analysis the evaluation of civilization in Southern India	
CO2	Understand the State structure in South and its evaluation	
CO3	Understand the conflicts between the Southern States and Sultanate and Mughal Powers.	
CO4	Analysis the Rise of Maratha and Tipu Sultan in Southern India	
UNIT-1 Pre Historic South India and Mauryan Expansion		
UNIT-2 Sangam Literature; Satavahanas : Polity and Socio–Economic condition		
UNIT-3 Delhi Sultanate and Regional Powers Expansion of Delhi Sultanate in South and its Impact; Vijay Nagar and Bahmani Kingdoms.		
UNIT-4 Mughals and Regional Powers: Southern states at the advent of Mughal invasion; Expansion of Mughal Empire		
Peninsula in 18th Century: Marathas and Mysore		
Suggested Reading: <ul style="list-style-type: none"> • Abraham, Meera, 1998, <i>Two Medieval Merchant Guilds of South India</i>, Delhi. • Begley, Vimala and Richard Daniel , 1992, <i>Rome and India: The Ancient Sea Trade</i>, Oxford Uni. Press, Delhi (reprint) • Champakalakshmi, R., 1996, <i>Trade, Ideology and Urbanization : South India (300 BC to AD 1300)</i>, Oxford Uni. Press, Delhi • Dubreuil, G.J. ,1979 <i>Ancient History of the Deccan</i>, Classical Pub., Delhi(reprint) • Gurukkal, Rajan, 2010, <i>Social Formations in Early South India</i>, Oxford Uni. Press, Delhi • Karashima, Naboru, 2001, <i>Towards a New Formation</i>, O.U.P., Delhi, 1992 • Majumdar, D. and Gopal Sharan, 1994, <i>Prag–Itihas (Pre-history)</i>, Hindi Madhyam Karyanvaya Nideshalaya, Uni. of Delhi(2nd edn.) 		

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- Ramaswamy, Vijaya, 1997, *Walking Naked : Woman, Society, Spirituality in South India*, Indian Institute of Advanced Study, Shimla
- Sarkar, Jadunath, 1973, *Shivaji and His Times*, Oxford Uni. Press, Delhi
- Shastri, Ajay Mitra (ed.) , 1987, *Early History of the Deccan, Problems and Perspectives*, Sandeep Prakashan, New Delhi
- Shastri, K.A.N. *The Illustrated History of South India*, Oxford Uni. Press, Delhi (also in Hindi)
- Srimali, K.M. and D.N. Jha (ed.) , 2006, *Prachin Bharat*, Hindi Madhyam Karyanvay Nideshalaya, Uni. of Delhi (reprint)
- Stein, Burton, 1989, *The New Cambridge History of India: Vijay Nagar*, Cambridge Uni. Press
- Stein, Burton, 1999, *Peasant, State and Society in Medieval South India*, Oxford Uni. Press, Delhi
- Subrahmanyam, Sanjay, 2004, *The Policial Economy of Commerce South India (1500A.D. – 1650A.D.)*, Cambridge Uni. Press, Delhi
- Verma, H.C.(ed.) , 1998, *Madhyakaleen Bharat, Vol. I & II*, Hindi Madhyam kiryanvaya Nideshalaya, Uni. of Delhi
- Yazdani, G.(ed.) , 1960, *Early History the Deccan, Vol. I & II*, London

M.A. History & Archaeology 4th Semester
Course Code : MA/H&A /E9/OEC8
Course: The Great Revolt of 1857

Total Credits: 4
Time: 3 Hrs.
Marks: 100
External: 70
Internal: 30

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Note: For The Paper Setter:

External:

1. Nine questions will be set in all and students will be required to attempt 5 questions.
2. Question No. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2x7=14 marks)
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each).

Internal:

1. Internal Evaluation include mid-term examination (20 marks) covering two unit of the syllabus, an Assignment (05 marks) and class Attendance(05 marks).

Course Outcomes:

CO1	Acquainted with problems of sources for writing histories of the revolt, particularly the excessive reliance on the colonial archive due to its relative profusion.
CO2	Familiar with character of the colonial state in the nineteenth century, with its recourse to the use of violence to establish its authority.
CO3	Grasp the different ways in which individuals and social groups perceived colonial authority, articulated grievances, opposed or sided with the state or its organs, and the options available to empire for exercising power.
CO4	Make sense of the processes whereby resistance and collaboration shaped colonialism during the second and third quarters of the nineteenth century.

UNIT-1

Colonial Historiography on the revolt and its impact on History Writing; Case studies: Meerut-Delhi; Kanpur; Jhansi-Gwalior, Ambala-Rewari-Vallabhgarh.

UNIT-2

Reponses of: i) the intelligentsia; ii) peasants; iii) landed elites; **Role of the Sipahis** ('sepoys'); Reasons for Disaffection of Mutiny.

UNIT-3

Pan-Indian character of the revolt: Panjab; South India; Eastern and North-Eastern India.

UNIT-4

Survey of Recent Trends in Mutiny Historiography, since c.2007; 'The 1857 a pictorial persentation.

Suggested Reading:

- Buckler, F.W. (1985), *The Political Theory of the Indian Mutiny*, reprinted in M.N. Pearson, (Ed)., *Legitimacy and Symbols: The South Asian Writings of F.W. Buckler*, Michigan: Centre for South and Southeast Asian Studies.
- Chakravarty, Gautam (2004), *The Indian Mutiny and British Imagination*, Cambridge,; Cambridge University Press.
- Chaudhuri, S.B. (1957), *Civil Rebellion in the Indian Mutinies*, Calcutta: World Press.
- Dewar, Douglas, H. L. Garrett and F. W. Buckler (1924), *The Political Theory of the Indian Mutiny: A Reply and with a Rejoinder*' Transactions of the Royal Historical Society, London: Royal Historical Society, pp. 131-165.
- Guha, Ranajit (1983), *Elementary Aspects of Peasant Insurgency* Delhi: Oxford University Press.
- Hawkins, Angus (1984), *British Parliamentary Party Alignment and the Indian Issue, 1857- 1858*' Journal of British Studies , Volume 3, Number 2, pp. 79-105.
- Kaye, J.W. (1988), *History of the Sepoy War*, Volume: 2, Delhi..

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A.S. Singh

- Metcalfe, T.R. (1964), *The Aftermath of Revolt: India 1857-70*, Princeton: Princeton University Press. Pramod K. Nayar, Pramod K. (Ed.) (2007), *The Trial of Bahadur Shah Zafar*, Hyderabad: Orient Longman, (trial proceedings).
- Savarkar, V.D. (1960), *The Indian War of Independence*, Bombay: Dhawale-Popular.
- Tope, Parag (2010), *Tatya Tope's Operation Red Lotus*, Delhi: Rupa and Co.

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**Learning Outcomes based Curriculum Framework
(LOCF)**

For

**M.A. Punjabi
Post Graduate Programme**



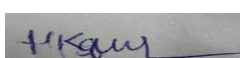
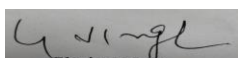
**Department of Punjabi
Chaudhary Devi Lal University
Sirsa-125055
2021**

U Singh

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 - 2.2 Programme Outcomes (POs)
 - 2.3 Programme Specific Outcomes (PSOs)
3. Programme Structure



1. About the Department

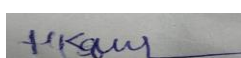
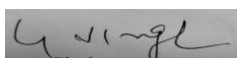
The Department of Punjabi was established in 2017 as an independent department. The Department has made a niche for itself in a short span of four years. Currently, department is running M.A. Punjabi (two-year). A large number of students of the department have qualified NET, JRF exam. Our alumni have opted to pursuing higher studies in different universities of North India. The Department has produced commendable alumni who have under taken to doctoral research. The Department has organized National Seminar and Workshop on contemporary issues. It has also organized scores of extension lectures of eminent educationists on Various topics. The department has also ensured regular dialogue with college teachers and interest in promoting Punjabi language at UG level two. Faculty members are well qualified regularly contributing to research through their research publications.

2. Learning Outcomes based Curriculum Framework

The Choice Based Credit Scheme (CBCS) has evolved into learning outcomes based curriculum framework and provides an opportunity to the students to choose courses from the prescribed syllabus comprising core, elective/minor or skill-based courses. The performance of the students in these courses is evaluated following the grading system, which is considered to be better than the conventional marks system. Grading system provides uniformity in the evaluation and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations, which enables the student to move across institutions of higher learning. The uniformity in evaluation system also enables the potential employers in assessing the performance of the candidates

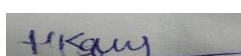
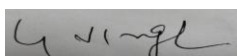
2.1 Objectives of the Programme

To train students in communication skills in Punjabi and introduce students to the tools of literary scholarship and sharpen their critical ability to interpret and evaluate all forms of literary representation and expressions. To prepare students for employability by honing their professional competencies. To strengthen a global worldview through a well-structured curriculum and university/community partnership and promote increased interface between technology and Punjabi studies.



2.2 Programme Outcomes (POs)

PO1	<i>Knowledge:</i> Prepare students academically by imparting a detailed knowledge and understanding of selected fields of study in the core disciplines of Humanities and languages (Hindi, Punjabi, Sanskrit and English) in order to promote their cognitive growth and enable them apply this knowledge in their personal, professional and social life.
PO2	<i>Specialization and Employability:</i> Enhance communication skills, soft skills and linguistic proficiency to make them successful in the career they opt.
PO3	<i>Orientation towards Inter-disciplinarity:</i> Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of humanities and languages.
PO4	<i>Application Development:</i> Students shall be introduced to Indian and western aesthetics and works in translation to enable them to critically analyse all literary genres by applying theoretical concepts derived from various disciplines while situating them in the broader frameworks of historical movements, literary criticism and theory.
PO5	<i>Critical Thinking:</i> Develop critical skills to analyse literatures in English, Punjabi, Sanskrit and Hindi with focus on issues relating to ethnic groups, race, class, gender and alternative sexualities, exclusion, representation, environment and ecological issues and trends like multiculturalism, post colonialism, post-humanism, migration etc.
PO6	<i>IT-based Skills and Research Ethics:</i> Introduce students to basics of research methodology, research ethics, computer application and ICT- enabled learning practices.
PO7	<i>Problem Solving:</i> Train the students for innovative practices which will help them understand the underlying connection between literature, politics and society.
PO8	<i>Ethics and Leadership:</i> Enhance their ability to embrace and practice moral and ethical values so as to enable them to take leadership roles in their personal, professional and social life.



2.3 Programme Specific Outcomes (PSOs)

ਐਮ ਏ ਪੰਜਾਬੀ (ਪ੍ਰੋਗਰਾਮ) ਪਾਠਕ੍ਰਮ ਦੇ ਅਧਿਐਨ ਉਪਰੰਤ ਹੇਠਾਂ ਲਿਖੇ ਸੰਭਾਵਿਤ ਨਤੀਜੇ ਪ੍ਰਾਪਤ ਹੋਣਗੇ :

PSO1	ਭਾਸ਼ਾ ਦੇ ਸਿਧਾਂਤਕ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਵਿਹਾਰਕ ਪ੍ਰਸੰਗ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੋਵੇਗਾ। ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀਆਂ ਵਿਭਿੰਨ ਸਾਹਿਤਕ ਧਾਰਾਵਾਂ, ਪਰੰਪਰਾਵਾਂ ਪ੍ਰਤੀ ਸਮਝ ਵਿਕਸਿਤ ਹੋਵੇਗੀ।
PSO2	ਸਮਕਾਲੀ ਸਾਹਿਤ ਦੇ ਵਿਭਿੰਨ ਰੂਪਾਂ ਅੰਦੋਲਨਾਂ ਦੇ ਸਾਹਿਤਕ ਵਿਵੇਚਨ ਅਤੇ ਵਿਚਾਰ ਚਰਚਾ ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਸੰਬੰਧਤ ਸਮੇਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ ਅਤੇ ਸਾਹਿਤ ਦੀਆਂ ਵਿਭਿੰਨ ਵਿਧਾਵਾਂ ਅਤੇ ਮੀਡੀਆ ਦੇ ਵਿਭਿੰਨ ਮਾਧਿਅਮਾਂ ਲਈ ਰਚਨਾਤਮਕ ਸਮਰੱਥਾ ਦੀ ਲੇਖਣ ਵਿੱਚ ਵਾਧਾ ਹੋਵੇਗਾ।
PSO3	ਸਾਹਿਤਕ ਸੰਸਾਰ ਅਤੇ ਵਾਸਤਵਿਕ ਸੰਸਾਰ ਦੇ ਯਥਾਰਥ ਪ੍ਰਤੀ ਅਲੋਚਨਾਤਮਕ, ਸੰਵੇਦਨਸ਼ੀਲ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਵਿਅਕਤੀਗਤ ਵਿਕਾਸ ਦੇ ਨਾਲ ਨਾਲ ਸਾਹਿਤਕ ਸੁਹਜ, ਕਲਾ ਅਤੇ ਵਿਹਾਰਕ ਮੁੱਲਾਂ ਪ੍ਰਤੀ ਬੌਧਿਕ ਉਸਾਰੀ ਅਤੇ ਸਮਝ ਪੈਦਾ ਹੋਵੇਗੀ।
PSO4	ਰੋਜ਼ਗਾਰ ਲਈ ਭਾਸ਼ਾਈ ਕੌਸ਼ਲ, ਕੰਪਿਊਟਰ, ਅਨੁਵਾਦ, ਪੱਤਰਕਾਰਿਤਾ, ਮੀਡੀਆ, ਰੰਗਮੰਚ ਅਤੇ ਫਿਲਮਾਂ ਆਦਿ ਬਾਰੇ ਸਿਧਾਂਤਕ ਅਤੇ ਵਿਹਾਰਕ ਗਿਆਨ ਬਾਰੇ ਸਮਝ ਪੈਦਾ ਹੋਵੇਗੀ।
PSO5	ਭਾਰਤੀ ਸਮਾਜ ਅਤੇ ਸੱਭਿਆਚਾਰਕ ਜੀਵਨ ਮੁੱਲਾਂ ਦੇ ਵਿਭਿੰਨ ਪੱਖਾਂ ਵਿੱਚ ਸਾਹਿਤਕ ਸਾਂਝ ਦੇ ਵਿਭਿੰਨ ਤੱਤਾਂ ਨਾਲ ਜਾਣ-ਪਛਾਣ ਅਤੇ ਦੇਸ਼ ਅਤੇ ਸਮਾਜ ਲਈ ਏਕਤਾ ਅਤੇ ਅਖੰਡਤਾ ਦੀ ਭਾਵਨਾ ਦਾ ਵਿਕਾਸ ਹੋਵੇਗਾ। ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਕੌਮੀ ਅਤੇ ਕੌਮਾਂਤਰੀ ਸਮਾਜਾਂ ਨੂੰ ਗਲੋਬਲੀ ਪਰਿਪੇਖ ਵਿੱਚ ਸਮਝਣ ਦੀ ਬੌਧਿਕ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।

3. Programme Structure

M.A. Punjabi programme is a four-semester postgraduate programme consisting 100 credits weightage of Core Courses (CC), Discipline Specific Elective Courses (DSC), Skill Enhancement Courses (SEC) and Open Elective Courses (OEC).

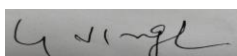
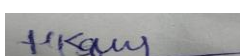



Table 1: Courses and Credit Scheme

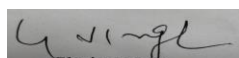
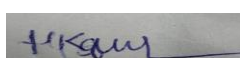
Semester	Core Courses (CC)		Discipline Specific Elective Courses (DSC)		Skill Enhancement Courses (SEC)		Open Elective Courses (OEC)		Grand Total Credits
	No of Courses	Total Credits	No. of Courses	Total Credits	No. of Courses	Total Credits			
1 st	04	16	02	08	0	0	Total 8 credits are to be earned from courses run by other departments or through SWAYAM (MOOCs). Students have to opt open elective courses in consultation with the chairperson of the Department and the Director, University Centre for outreach Programmes and Extension.		24
2 nd	03	12	02	08	01	04			24
3 rd	04	16	01	04	01	04			24
4 th	03	12	02	08	0	0			20
Total	Core Credits	56	Discipline Specific Elective Credits	28	Skill Enhancement Credits	8	Open Elective Credits	8	92+8=100
%age	Core Credits	56	Discipline Specific Elective Credits	28	Skill Enhancement Credits	8	Open Elective Credits	8	100

Table 2: Detailed break-up of Credit Courses

	Core Courses	Discipline Specific Elective Courses	Skill Enhancement Courses	Open Elective Courses	Total Courses				
	CC	DSC	SEC	OEC					
Semester 1 st	CC1	DSC1 DSC2		OECs Offered by other departments or MOOCs (May be enrolled in any of three semesters) Student have to opt open elective courses in consultation with chairperson of the Department and Director, University Centre for outreach Programmes and Extension	6				
	CC2								
	CC3								
	CC4								
Semester 2 nd	CC5	DSC3 DSC4	SEC1		OECs Offered by other departments or MOOCs (May be enrolled in any of three semesters) Student have to opt open elective courses in consultation with chairperson of the Department and Director, University Centre for outreach Programmes and Extension	6			
	CC6								
	CC7								
Semester 3 rd	CC8	DSC5	SEC2			OECs Offered by other departments or MOOCs (May be enrolled in any of three semesters) Student have to opt open elective courses in consultation with chairperson of the Department and Director, University Centre for outreach Programmes and Extension	6		
	CC9								
	CC10								
	CC11								
Semester 4 th	CC12	DSC6 DSC7					OECs Offered by other departments or MOOCs (May be enrolled in any of three semesters) Student have to opt open elective courses in consultation with chairperson of the Department and Director, University Centre for outreach Programmes and Extension	5	
	CC13								
	CC14								
Total								23+2=25	

Table 3: Course code and Title along with credits detail

Course Code	Course Title			
		Theory	Practical	Total
Semester 1st				
MA/PUN/1/CC1	Sufi, Bhagti te Gurmat Kaav	4	0	4
MA/PUN/1/CC2	Punjabi Novel	4	0	4
MA/PUN/1/CC3	Bharti te Unani Sahit Sidhant ate Viharak Aalochana	4	0	4
MA/PUN/1/CC4	Punjabi Sahit Da Itihas (850 to 1850 tak)	4	0	4
Student can choose any two from following DSCs				
MA/PUN/1/DSC1	Haryana Da Punjabi Sahit,	4	0	4
MA/PUN/1/DSC2	Nari Punjabi Sahit	4	0	4
MA/PUN/1/DSC3	Pakistani Punjabi Sahit	4	0	4
MA/PUN/1/DSC4	Parvasi Punjabi Sahit	4	0	4
Total		24	00	24
Semester 2nd				
MA/PUN/2/CC5	Punjabi Kissa Ate Bir Rasi Kav	4	0	4
MA/PUN/2/CC6	Punjabi te Pachhmi Sahit ate Punjabi Alochna	4	0	4
MA/PUN/2/CC7	Punjabi Sahit Da Itihas (1851 to Hun tak)	4	0	4
Student can choose any two from following DSCs				
MA/PUN/2/DSC5	Punjabi Vich Anuvadit Rusi Sahit	4	0	4
MA/PUN/2/DSC6	Punjabi Vich Anuvadit Angrezi Sahit	4	0	4
MA/PUN/2/DSC7	Punjabi vich Anuvadit Hindi Sahit	4	0	4
MA/PUN/2/DSC8	Punjabi vich Anuvadit Urdu Sahit	4	0	4
Student can choose any one from following SECs				

MA/PUN/2/SEC1	Natak ate Rangmanch Da Hunar: Adhyan ate Sikhilai	4	0	4
MA/PUN/2/SEC2	Sirjnatmak Lekhan : Adhyan Ate Sikhilai	4	0	4
	Total	24	00	24
	Semester 3rd			
MA/PUN/3/CC8	Aadhunik Punjabi Kavita (1960 tak)	4	0	4
MA/PUN/3/CC9	Punjabi Natak	4	0	4
MA/PUN/3/CC10	Sabhyachar Ate Punjabi Sabhyachar	4	0	4
MA/PUN/3/CC11	Bhasha Vigyan ate Punjabi Bhasha	4	0	4
Student can choose any one from following DSCs				
MA/PUN/3/DSC9	Punjabi Vartak (1900 Tak)	4	0	4
MA/PUN/3/DSC10	Punjabi Swaijivni Sahit	4	0	4
	Student can choose any one from following SECs			
MA/PUN/3/SEC3	Computer Internet ate Punjabi typing	4	0	4
MA/PUN/3/SEC4	Media ate Punjabi Media	4	0	4
	Total	24	00	24
	Semester 4th			
MA/PUN/4/CC12	Adhunik Punjabi Kavita (1961 to Hun tak)	4	0	4
MA/PUN/4/CC13	Lokdhara Ate Punjabi Lokdhara	4	0	4
MA/PUN/4/CC14	Punjabi Bhasha Vigyan ate Gurmukhi Lipi	4	0	4
Student can choose any two from following DSCs				
MA/PUN/4/DSC11	Punjabi Ikangi	4	0	4
MA/PUN/4/DSC12	Punjabi Kahani	4	0	4
MA/PUN/4/DSC13	Khoj Vidhi	4	0	4
MA/PUN/4/DSC14	Anuvad ate Anuvad Kala	4	0	4
	Total	20	00	20

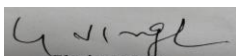
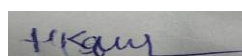



Table 4: Core Courses Offered by the Department

Course Code	Course title	Theory/credit
MA/PUN/1/CC1	Sufi, Bhagti te Gurmat Kaav	04
MA/PUN/1/CC2	Punjabi Novel	04
MA/PUN/1/CC3	Bharti te Unani Sahit Sidhant ate Viharak Aalochana	04
MA/PUN/1/CC4	Punjabi Sahit Da Itihas(850 to 1850 tak)	04
MA/PUN/2/CC5	Punjabi Kissa Ate Bir Rasi Kav	04
MA/PUN/2/CC6	Punjabi te Pachhmi Sahit ate Punjabi Alochna	04
MA/PUN/2/CC7	Punjabi Sahit Da Itihas (1851 to Hun tak)	04
MA/PUN/3/CC8	Aadhunik Punjabi Kavita (1960 tak)	04
MA/PUN/3/CC9	Punjabi Natak	04
MA/PUN/3/CC10	Sabhyachar Ate Punjabi Sabhyachar	04
MA/PUN/3/CC11	BhashaVigyan ate Punjabi Bhasha	04
MA/PUN/4/CC12	Adhunik Punjabi Kavita (1961 to Hun tak)	04
MA/PUN/4/CC13	Lokdhara Ate Punjabi Lokdhara	04
MA/PUN/4/CC14	Punjabi BhashaVigyan ate Gurmukhi Lipi	04
	Total	56

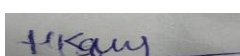
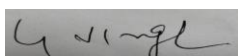


Table 5: Discipline Specific Elective Courses Offered by the Department

MA/PUN/1/DSC1	Haryana Da Punjabi Sahit,	4+4=8
MA/PUN/1/DSC2	Nari Punjabi Sahit	
MA/PUN/1/DSC3	Pakistani Punjabi Sahit	
MA/PUN/1/DSC4	Parvasi Punjabi Sahit	
MA/PUN/2/DSC5	Punjabi Vich Anuvadit Rusi Sahit	4+4=8
MA/PUN/2/DSC6	Punjabi Vich Anuvadit Angrezi Sahit	
MA/PUN/2/DSC7	Punjabi vich anuvadit Hindi sahit	
MA/PUN/2/DSC8	Punjabi vich anuvadit Urdu sahit	
MA/PUN/3/DSC9	Punjabi Vartak (1900 Tak)	4
MA/PUN/3/DSC10	Punjabi Swaijivni Sahit	
MA/PUN/4/DSC11	Punjabi Ikangi	4+4=8
MA/PUN/4/DSC12	Punjabi Kahani	
MA/PUN/4/DSC13	Khoj Vidhi	
MA/PUN/4/DSC14	Anuvad ate Anuvad Kala	
	Total	28

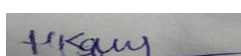
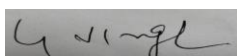
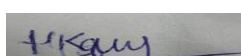
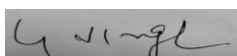


Table 6: Skill Enhancement Courses Offered by the Department

MA/PUN/2/SEC1	Natak ate Rangmanch Da Hunar: Adhyan ate Sikhilai	4
MA/PUN/2/SEC2	Sirjnatmak Lekhan : Adhyan Ate Sikhilai	
MA/PUN/3/SEC3	Computer Internet ate Punjabi typing	4
MA/PUN/3/SEC4	Media ate Punjabi Media	
Total		8

Table 7: Open Electives Courses Offered by the Department

MA/PUN/9/OEC1	Punjabi bhasa ate Viakaran: mudhli jaan-pachhan	4
MA/PUN/9/OEC2	Punjabi Sahit da Itihas : sankhep jaan-pachhan	
MA/PUN/9/OEC3	Punjabi Lokdhara ate Sabhayachar : sankhep jaan-pachhan	4
MA/PUN/9/OEC4	Punjbi bhasa vighyan: mudhli jaan-pahchan	
Total		8



Semester First
Sufi, Bhagti Ate Gurmat Kaav
MA/PUN/1/CC1

ਪੇਪਰ - ਪਹਿਲਾ
ਸੂਫੀ, ਭਗਤੀ ਅਤੇ ਗੁਰਮਤਿ ਕਾਵਿ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ :70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚੋਂ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮੱਧਕਾਲੀਨ ਚੇਤਨਾ ਦੇ ਹਵਾਲੇ ਨਾਲ ਮੱਧਕਾਲ ਵਿੱਚ ਪੈਦਾ ਹੋਈਆਂ ਕਾਵਿ ਧਾਰਾਵਾਂ ਗੁਰਮਤਿ, ਭਗਤੀ ਅਤੇ ਸੂਫੀ ਕਾਵਿ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

1. ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲੀਨ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਵਿਭਿੰਨ ਰੂਪਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
2. ਗੁਰਮਤਿ, ਸੂਫੀ ਅਤੇ ਭਗਤੀ ਕਾਵਿ ਵਿਚਲੀਆਂ ਵਿਚਾਰਧਾਰਕ ਸਾਂਝਾਂ ਅਤੇ ਵਖਰੇਵਿਆਂ ਦੀ ਸਮਝ ਪੈਦਾ ਹੋਵੇਗੀ।
3. ਸੂਫੀਵਾਦ ਦੇ ਸਿਧਾਂਤਕ ਅਤੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ ਵਿੱਚ ਪੰਜਾਬੀ ਸੂਫੀ ਕਾਵਿ ਪ੍ਰਤੀ ਸਮਝ ਬਣੇਗੀ।
4. ਵਿਦਿਆਰਥੀ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਦੀ ਸੰਪਾਦਨ ਕਲਾ, ਸਾਹਿਤਕ ਅਤੇ ਸਮਾਜਿਕ-ਸੱਭਿਆਚਾਰਕ ਮਹੱਤਵ ਨੂੰ ਸਮਕਾਲੀ ਪ੍ਰਸੰਗ ਵਿੱਚ ਸਮਝਣ ਦੇ ਯੋਗ ਹੋਣਗੇ।

ਯੂਨਿਟ ਪਹਿਲਾ

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸੰਬੰਧਤਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਭਗਤ ਕਬੀਰ

ਬਾਣੀ ਭਗਤ ਕਬੀਰ

ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ

ਯੂਨਿਟ ਤੀਸਰਾ

ਗੁਰੂ ਨਾਨਕ ਦੇਵ

ਜਪੁਜੀ

ਸਿੰਘ ਬ੍ਰਦਰਜ਼, ਅੰਮ੍ਰਿਤਸਰ, 2000

ਯੂਨਿਟ ਚੌਥਾ

ਸ਼ਾਹ ਹੁਸੈਨ

ਕਾਫੀਆਂ

ਸਿੰਘ ਬ੍ਰਦਰਜ਼, ਅੰਮ੍ਰਿਤਸਰ, 2000

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਅਨਵਰ ਚਿਰਾਗ ਇਸਲਾਮੀ ਚਿੰਤਨ ਅਤੇ ਪੰਜਾਬੀ ਸੂਫੀ ਕਵਿਤਾ
ਨੈਸ਼ਨਲ ਬੁੱਕ ਸ਼ਾਪ, ਦਿੱਲੀ
2. ਅਮਰਜੀਤ ਸਿੰਘ ਕਾਂਗ ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਅਧਿਐਨ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ
3. ਅਮਰਜੀਤ ਸਿੰਘ ਕਾਂਗ ਅਤੇ
ਜਸਪਾਲ ਕੌਰ ਕਾਂਗ ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਵਿਵੇਕ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ
4. ਅਤਰ ਸਿੰਘ ਸਮਦਰਸ਼ਨ
ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ, 1982
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ਸਿੰਘ ਬ੍ਰਦਰਜ਼ ਅੰਮ੍ਰਿਤਸਰ
6. ਸੁਰਜੀਤ ਸਰਨਾ (ਅਨੁ.) ਕਬੀਰ
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8. ਹਰਿਭਜਨ ਸਿੰਘ ਮੁੱਲ ਤੇ ਮੁਲਾਂਕਣ
ਨਵਚਿੰਤਨ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ, 1970
9. -ਉਹੀ- ਪਤਰਾਂਜਲੀ
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ
10. -ਉਹੀ- ਪਾਰਗਾਮੀ
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ
11. ਗੁਰਚਰਨ ਸਿੰਘ ਬਾਣੀ ਕੋਦਰ ਤੇ ਵਿਕੋਦਰ
ਵਿਵੀਅਨ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ, 1985
12. ਗੁਰਦੇਵ ਸਿੰਘ ਪੰਜਾਬੀ ਸੂਫੀ ਕਾਵਿ ਦਾ ਇਤਿਹਾਸ
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15. ਜਗਬੀਰ ਸਿੰਘ ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਸਭਿਆਚਾਰ ਆਰਸੀ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ
16. -ਉਹੀ- ਬਾਣੀ ਸੰਸਾਰ
ਆਰਸੀ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ
18. ਤਾਰਨ ਸਿੰਘ ਗੁਰੂ ਨਾਨਕ : ਚਿੰਤਨ ਤੇ ਕਲਾ
ਕਸਤੂਰੀ ਲਾਲ ਐਂਡ ਸੰਨਜ਼, ਅੰਮ੍ਰਿਤਸਰ
19. ਦਵਿੰਦਰ ਸਿੰਘ ਪੰਜਾਬੀ ਸੂਫੀ ਸਾਹਿਤ ਦਾ ਅਧਿਐਨ
ਰਵੀ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ, 1986
20. ਮਨਮੋਹਨ ਸਿੰਘ ਗੁਰੂ ਅਤੇ ਭਗਤੀ ਅੰਦੋਲਨ
ਮਨਦੀਪ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ
21. ਰਤਨ ਸਿੰਘ ਜੱਗੀ ਖੋਜ ਪਤ੍ਰਿਕਾ (ਗੁਰਮਤਿ ਕਾਵਿ ਅੰਕ) ਅੰਕ 26
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22. -ਉਹੀ- ਖੋਜ ਪਤ੍ਰਿਕਾ (ਸੂਫੀ ਕਾਵਿ ਵਿਸ਼ੇਸ਼ ਅੰਕ) ਅੰਕ 33
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23. ਰਾਜਿੰਦਰ ਸਿੰਘ ਭੱਟੀ ਅਤੇ ਸਿੱਖ ਧਰਮ ਦਾ ਮਾਨਵਵਾਦੀ ਪਰਿਪੇਖ
ਗਰੇਸੀਅਸ ਬੁੱਕਸ, ਪਟਿਆਲਾ, 2014
24. ਰਾਮ ਸਿੰਘ ਜਪੁਜੀ ਦਾ ਵਿਸ਼ਾ ਤੇ ਰੂਪ
ਪੰਜਾਬੀ ਸਾਹਿਤ ਅਕਾਦਮੀ, ਲੁਧਿਆਣਾ
25. ਲਾਜਵੰਤੀ ਰਾਮਾ ਕ੍ਰਿਸ਼ਨਾ ਪੰਜਾਬੀ ਸੂਫੀ ਪੋਇਟਸ, ਆਸਾਜਨਕ ਪਬਲੀਕੇਸ਼ਨ, ਦਿੱਲੀ, 1973

Mapping Matrix for the Course MA/PUN/CC1

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3
LO4	3	2	3	2	3	3	3	3
Average	3	2.25	3	2.25	3	2.25	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	3	3	3	3	3	3	3	3	3
Average	3	2.25	3	2.25	3	2.25	3	3	3	3	2.25	3	3

**Paper Second
Punjabi Novel
MA/PUN/1/CC2**

**ਪੇਪਰ-ਦੂਸਰਾ
ਪੰਜਾਬੀ ਨਾਵਲ**

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚੋਂ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਬਿਰਤਾਂਤ ਅਤੇ ਬਿਰਤਾਂਤ ਸ਼ਾਸਤਰ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਦੇ ਹੋਏ ਨਾਵਲ ਅਤੇ ਬਿਰਤਾਂਤ ਦੇ ਆਪਸੀ ਸੰਬੰਧਾਂ ਤੋਂ ਵਾਕਿਫ਼ ਕਰਾਉਣਾ। ਪੰਜਾਬੀ ਨਾਵਲ ਦੀ ਪੜ੍ਹਤ ਰਾਹੀਂ ਨਾਵਲ ਦੀ ਵਿਸ਼ੇਸ਼ ਸੂਝ ਪੈਦਾ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

1. ਵਿਦਿਆਰਥੀ ਨਾਵਲ ਦੇ ਸਿਧਾਂਤਕ ਚੌਖਟੇ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
2. ਪੰਜਾਬੀ ਨਾਵਲ ਦੇ ਵਿਧਾਗਤ ਸਰੂਪ, ਵਿਸ਼ੇਗਤ ਸਰੋਕਾਰਾਂ, ਇਤਿਹਾਸਕ ਵਿਕਾਸ ਅਤੇ ਪ੍ਰਮੁੱਖ ਝੁਕਾਵਾਂ/ ਪ੍ਰਵਿਰਤੀਆਂ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
3. ਪੰਜਾਬੀ ਨਾਵਲ ਰਾਹੀਂ ਸਮਾਜਿਕ ਅਤੇ ਗਲੋਬਲੀ ਘਟਨਾਵਾਂ ਦੀ ਸੂਝ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
4. ਕੁਝ ਵਿਸ਼ੇਸ਼ ਨਾਵਲਕਾਰਾਂ ਦੇ ਨਾਵਲਾਂ ਦੀ ਪੜ੍ਹਤ ਦੁਆਰਾ ਨਾਵਲੀ ਟੈਕਸਟ ਦੇ ਵਿਹਾਰਕ ਅਧਿਐਨ ਦੀ ਯੋਗਤਾ ਪੈਦਾ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸਬੰਧਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਜਸਵੰਤ ਸਿੰਘ ਕੰਵਲ ਰੂਪਧਾਰਾ

ਯੂਨਿਟ ਤੀਸਰਾ

ਗੁਰਦਿਆਲ ਸਿੰਘ ਪਰਸਾ

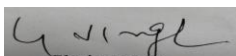
ਆਰਸੀ ਪਬਲਿਸ਼ਰਜ਼ ,ਨਵੀਂ ਦਿੱਲੀ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਉਪਿੰਦਰਜੀਤ ਨਵਾਂ ਪੰਜਾਬੀ ਨਾਵਲ : ਪਛਾਣ ਚਿੰਨ੍ਹ
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3. ਸੁਖਦੇਵ ਸਿੰਘ ਖਾਹਰਾ ਪੰਜਾਬੀ ਨਾਵਲ ਦਾ ਸੰਸਕ੍ਰਿਤਕ ਅਧਿਐਨ
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ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ, 1974
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| 23. ਪਰਮਜੀਤ ਕੌਰ ਸਿੱਧੂ | ਲੋਕ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ
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| 25 David Daiches | The Novel and the Modern World
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Mapping Matrix for the Course MA/PUN/CC2



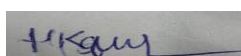


Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.75	3	2.5	2.75	2.25	3	3

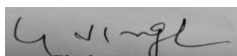
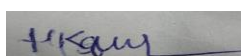
Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	3	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2		3	3	3	3	3	3	3	3
Average	3	2.75	3	2.5	2.75	2.25	3	3	3	3	2.25	3	3

PAPER- Third
Bharti te Unani Sahit Sidhant ate Viharak Aalochana

MA/PUN/1/CC3

ਪੇਪਰ- ਤੀਸਰਾ

ਭਾਰਤੀ ਤੇ ਯੂਨਾਨੀ ਸਾਹਿਤ ਸਿਧਾਂਤ ਅਤੇ ਵਿਹਾਰਕ ਆਲੋਚਨਾ

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚੋਂ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਦਿੱਤੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਅਤੇ ਸਾਹਿਤ ਅਧਿਐਨ ਨਾਲ ਸਬੰਧਤ ਵੱਖ-ਵੱਖ ਸੰਕਲਪਾਂ ਦਾ ਬੋਧ ਹਾਸਲ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- ਵਿਦਿਆਰਥੀ ਨੂੰ ਭਾਰਤੀ ਅਤੇ ਯੂਨਾਨੀ ਸਾਹਿਤ ਸ਼ਾਸਤਰੀਆਂ ਦੇ ਹਵਾਲੇ ਨਾਲ ਸਾਹਿਤ ਸਿਧਾਂਤ ਦੇ ਵਿਭਿੰਨ ਸੰਕਲਪਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤ ਰੂਪਾਂ ਦੀ ਰੂਪ-ਰਚਨਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- ਕਵਿਤਾ ਅਤੇ ਵਾਰਤਕ ਦੀ ਵਿਹਾਰਕ ਆਲੋਚਨਾ ਦੁਆਰਾ ਸਾਹਿਤ ਅਧਿਐਨ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।
- ਭਾਰਤੀ ਅਤੇ ਯੂਨਾਨੀ ਕਾਵਿ ਸ਼ਾਸਤਰ ਦੀ ਵਿਸਤ੍ਰਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ

ਕਾਵਿ: ਵਿਸ਼ੇ, ਪ੍ਰਯੋਜਨ, ਹੇਤੂ, ਭੇਦ (ਭਾਰਤੀ ਕਾਵਿ ਸ਼ਾਸਤਰ ਅਨੁਸਾਰ)
ਸਾਹਿਤ ਦੀ ਪਰਿਭਾਸ਼ਾ, ਪ੍ਰਕਿਰਤੀ, ਪ੍ਰਯੋਜਨ (ਯੂਨਾਨੀ ਕਾਵਿ ਸ਼ਾਸਤਰ ਅਨੁਸਾਰ)

ਯੂਨਿਟ ਦੂਸਰਾ

ਭਾਰਤੀ ਕਾਵਿ ਸ਼ਾਸਤਰ :
ਰਸ ਸਿਧਾਂਤ, ਧੁਨੀ ਸਿਧਾਂਤ, ਅਲੰਕਾਰ ਸਿਧਾਂਤ, ਰੀਤੀ ਸਿਧਾਂਤ, ਵਕਰੋਕਤੀ ਸਿਧਾਂਤ ਅਤੇ ਔਚਿਤਯ ਸਿਧਾਂਤ।

ਯੂਨਿਟ ਤੀਸਰਾ

ਯੂਨਾਨੀ ਕਾਵਿ ਸ਼ਾਸਤਰ
ਪਲੈਟੋ ਦਾ ਕਾਵਿ ਸਿਧਾਂਤ, ਅਰਸਤੂ ਦਾ ਕਾਵਿ ਸਿਧਾਂਤ, ਲੌਜਾਈਨਸ ਦਾ ਕਾਵਿ ਸਿਧਾਂਤ

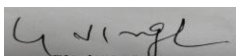
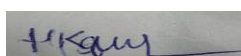
ਯੂਨਿਟ ਚੌਥਾ

ਵਿਹਾਰਕ ਆਲੋਚਨਾ (ਕਵਿਤਾ ਅਤੇ ਗੱਦ ਵਿੱਚੋਂ ਇੱਕ-ਇੱਕ ਪੈਰ੍ਹਾ ਦਿੱਤਾ ਜਾਵੇਗਾ ਜਿਨ੍ਹਾਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਦੀ ਵਿਹਾਰਕ ਆਲੋਚਨਾ ਕਰਨੀ ਹੋਵੇਗੀ।

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

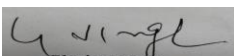
1. ਅਮਰੀਕ ਸਿੰਘ ਪੁੰਨੀ ਸਾਹਿਤ ਸਿਧਾਂਤ ਅਤੇ ਸਮੀਖਿਆ

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2. ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ ਸਾਹਿਤਿਆਰਥ
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 3. ਸਤਿੰਦਰ ਸਿੰਘ ਵਿਹਾਰਕ ਸਮੀਖਿਆ
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ਐੱਸ ਚਾਂਦ ਐਂਡ ਸੰਨਜ਼, ਦਿੱਲੀ
 6. -ਉਹੀ- ਸਾਹਿਤ ਸ਼ਾਸਤਰ
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ
 7. -ਉਹੀ- ਪਾਰਗਾਮੀ
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ
 8. -ਉਹੀ- ਤ੍ਰਾਸਦੀ
ਵਿਦਵਾਨ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਬਾਲਾ ਕੈਂਟ
 9. -ਉਹੀ- ਉਦਾਤ ਬਾਰੇ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1972
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ਪੰਜਾਬ ਸਟੇਟ ਯੂਨੀਵਰਸਿਟੀ ਟੈਕਸਟ ਬੁੱਕ ਬੋਰਡ, ਚੰਡੀਗੜ੍ਹ, 1983
 11. ਕਿਸ਼ਨ ਸਿੰਘ ਸਾਹਿਤ ਦੀ ਸਮਝ
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ਲੋਕ ਭਾਰਤੀ ਪ੍ਰਕਾਸ਼ਨ, ਅਲਾਹਾਬਾਦ
 13. ਗੁਰਚਰਨ ਸਿੰਘ ਅਰਸੀ ਲਾਨਜਾਈਨਸ ਦਾ ਕਾਵਿ ਸਿਧਾਂਤ
ਆਰਸੀ ਪਬਲਿਸ਼ਰਜ਼, ਦਿੱਲੀ
 14. -ਉਹੀ- ਪੱਛਮੀ ਕਾਵਿ ਸ਼ਾਸਤਰ
ਆਰਸੀ ਪਬਲਿਸ਼ਰਜ਼, ਦਿੱਲੀ, 1996
 15. ਗੁਰਚਰਨ ਕੌਰ ਜੱਗੀ ਭਾਰਤੀ ਕਾਵਿ ਸ਼ਾਸਤਰ
ਆਰਸੀ ਪਬਲਿਸ਼ਰਜ਼, ਦਿੱਲੀ, 1981
 16. ਗੋਪਾਲ ਸਿੰਘ ਸਾਹਿਤ ਦੀ ਪਰਖ
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 17. ਜਗਬੀਰ ਸਿੰਘ ਪੱਛਮੀ ਸਾਹਿਤ ਸਿਧਾਂਤ ਅਤੇ ਭਾਰਤੀ ਕਾਵਿ ਸ਼ਾਸਤਰ
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ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ
 21. ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼ ਸਿੰਘ ਭਾਰਤੀ ਕਾਵਿ ਸ਼ਾਸਤਰ
ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ, 1998
 22. ਰਾਜਿੰਦਰ ਪਾਲ ਸਿੰਘ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਸਾਹਿਤ ਰੂਪਾਕਾਰ : ਸਿਧਾਂਤ ਤੇ ਰੂਪਾਂਤਰਣਅਤੇ ਹੋਰ (ਸੰਪਾ.)ਪੰਜਾਬੀ
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 23. ਰੋਸ਼ਨ ਲਾਲ ਆਹੁਜਾ ਅਰਸਤੂ ਦਾ ਕਾਵਿ ਸ਼ਾਸਤਰ
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Mapping Matrix for the Course MA/PUN/1/CC3



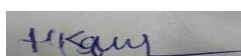


Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	2	3	3	3	3
LO3	3	3	3	3	3	2	3	3
LO4	3	2	3	3	3	3	3	3
Average	3	2.5	3	2.5	3	2.5	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	3	3	3	3	3	3	3	3
LO4	3	2	3	2	3	3	3	3	3	3	3	2	3
Average	3	2.5	3	2.5	3	2.5	3	3	3	3	3	2.75	3

Punjabi Sahit Da Itihas (1850 Tak)

MA/PUN/1/CC4

ਪੇਪਰ- ਚੌਥਾ

ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (1850 ਤੱਕ)

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਹਰ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਇਤਿਹਾਸਕਾਰੀ ਦੇ ਸੰਕਲਪ ਅਤੇ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਦੀ ਵਿਸਤ੍ਰਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਇਤਿਹਾਸ ਲੇਖਣ ਦੇ ਸੰਕਲਪ ਅਤੇ ਸਾਹਿਤ ਇਸਦੀ ਸਿਰਜਣ ਪ੍ਰਕਿਰਿਆ ਦੌਰਾਨ ਆਉਣ ਵਾਲੀਆਂ ਵਿਭਿੰਨ ਤਰ੍ਹਾਂ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
2. ਪੰਜਾਬੀ ਸਾਹਿਤ ਇਤਿਹਾਸ ਦੀ ਕਾਲ ਵੰਡ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ ਬਾਰੇ ਸਮਝ ਬਣੇਗੀ।
3. ਮੱਧਕਾਲ ਵਿਚਲੇ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤ ਰੂਪਾਂ ਦੀ ਰੂਪ-ਰਚਨਾ ਪ੍ਰਤੀ ਵਿਧਾਮੂਲਕ ਸਮਝ ਪੈਦਾ ਹੋਵੇਗੀ।
4. ਮੱਧਕਾਲੀਨ ਸਾਹਿਤ-ਧਾਰਾਵਾਂ ਦੇ ਵਿਕਾਸ ਅਤੇ ਮੂਲ ਸਰੋਕਾਰਾਂ ਦੀ ਸਪੱਸ਼ਟਤਾ ਪੈਦਾ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਸਾਹਿਤ ਦੀ ਇਤਿਹਾਸਕਾਰੀ :

- (ੳ) ਸਾਹਿਤ ਇਤਿਹਾਸ ਲੇਖਣ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ
- (ਅ) ਸਾਹਿਤ ਇਤਿਹਾਸ ਵਿੱਚ ਕਾਲ-ਵੰਡ ਅਤੇ ਨਾਮਕਰਨ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ
- (ੲ) ਸਾਹਿਤ ਸ਼ਾਸਤਰ ਅਤੇ ਇਤਿਹਾਸ ਸ਼ਾਸਤਰ ਦਾ ਅੰਤਰ-ਸਬੰਧ

ਯੂਨਿਟ ਦੂਸਰਾ

1500 ਈ. ਤੱਕ ਦਾ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ

ਯੂਨਿਟ ਤੀਸਰਾ

1501 ਈ. ਤੋਂ ਲੈ ਕੇ 1700 ਈ. ਤੱਕ ਦਾ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ

ਯੂਨਿਟ ਚੌਥਾ

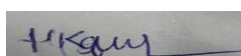
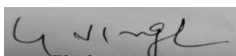
1701 ਈ. ਤੋਂ ਲੈ ਕੇ 1850 ਈ. ਤੱਕ ਦਾ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਅਤਰ ਸਿੰਘ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (ਭਾਗ ਪਹਿਲਾ)
ਭਾਸ਼ਾ ਵਿਭਾਗ ਪੰਜਾਬ, ਪਟਿਆਲਾ, 1971
2. ਕਿਰਪਾਲ ਸਿੰਘ ਕਸੇਲ,
ਗੋਬਿੰਦ ਸਿੰਘ ਲਾਂਬਾ ਅਤੇ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਉੱਤਪਤੀ ਤੇ ਵਿਕਾਸ
ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਪਰਮਿੰਦਰ ਸਿੰਘ ਲੁਧਿਆਣਾ, 1974
3. ਜੀਤ ਸਿੰਘ ਸੀਤਲ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਆਲੋਚਨਾਤਮਕ ਇਤਿਹਾਸ
ਪੈਪਸੂ ਬੁੱਕ ਡਿੱਪੂ, ਪਟਿਆਲਾ, 1976
4. ਜਗਬੀਰ ਸਿੰਘ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (ਆਦਿ ਕਾਲ ਅਤੇ ਭਗਤੀ ਕਾਲ)
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ
5. ਧਰਮਪਾਲ ਸਿੰਗਲ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ
6. ਮੋਹਨ ਸਿੰਘ ਦੀਵਾਨਾ ਪੰਜਾਬੀ ਅਦਬ ਦੀ ਮੁਖਤਸਰ ਤਵਾਰੀਖ
ਕਸਤੂਰੀ ਲਾਲ ਐਂਡ ਸੰਨਜ਼, ਅੰਮ੍ਰਿਤਸਰ
7. ਬਿਕਰਮ ਸਿੰਘ ਘੁੰਮਣ/
ਹਰਭਜਨ ਸਿੰਘ ਭਾਟੀਆ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਇਤਿਹਾਸਕਾਰੀ
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ

Mapping Matrix for the Course MA/PUN/1/CC4

Table 1: CO-PO Matrix for the Course



CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	3	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	3	3	3	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2.5	3	2.5	3	3

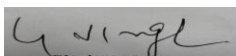
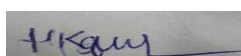
Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	3	3	3	3	3	3	3	3
LO2	3	3	3	3	3	2	3	3	3	3	3	3	3
LO3	3	3	3	3	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	3	3	3	3	3	3	2	3
Average	3	3	3	2.5	3	2.5	3	3	3	3	3	2.75	3

Paper Fifth
Haryana Da Punjabi Sahit
MA/PUN/1/DSC1

ਪੇਪਰ ਪੰਜਵਾਂ
ਹਰਿਆਣਾ ਦਾ ਪੰਜਾਬੀ ਸਾਹਿਤ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ :70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚੋਂ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

ਵਿਦਿਆਰਥੀ ਨੂੰ ਹਰਿਆਣੇ ਦੇ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ, ਇਸਦੇ ਝੁਕਾਵਾਂ ਅਤੇ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤਕਾਰਾਂ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- ਹਰਿਆਣਾ ਵਿਚਲੇ ਵੱਖ-ਵੱਖ ਸਾਹਿਤਕਾਰਾਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਸਾਹਿਤ ਅਧਿਐਨ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।
- ਹਰਿਆਣਾ ਦੇ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਹਰਿਆਣਾ ਵਿੱਚ ਵਸਦੇ ਪੰਜਾਬੀ ਲੋਕਾਂ ਦੀ ਜੀਵਨ-ਜਾਂਚ ਨੂੰ ਸਮਝਣ ਦੀ ਸੂਝ ਬਣੇਗੀ।
- ਹਰਿਆਣਾ ਦੇ ਪੰਜਾਬੀ ਸਾਹਿਤ ਰਾਹੀਂ ਸਮਾਜਿਕ ਘਟਨਾਵਾਂ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।
- ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਖੇਤਰੀ ਸਾਹਿਤ ਨੂੰ ਪੜ੍ਹਨ ਤੇ ਸਮਝਣ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸੰਬੰਧਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਜਾ

ਰਾਮ ਸਰੂਪ ਰਿਖੀ

ਮੈਂ ਪ੍ਰਚੰਡ ਭਵਾਨੀ

ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2015

ਯੂਨਿਟ ਤੀਸਰਾ

ਹਰਭਜਨ ਸਿੰਘ ਰੈਣੂ

ਭੂਮਿਕਾ ਤੋਂ ਬਗੈਰ

ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2008

ਯੂਨਿਟ ਚੌਥਾ

ਕੇਸਰਾ ਰਾਮ

ਜਨਾਨੀ ਪੰਦ

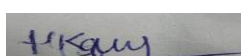
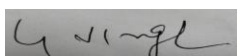
ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

- | | |
|--|--|
| 1. ਅਮਰਜੀਤ ਸਿੰਘ ਕਾਂਗ | ਹਰਿਆਣਾ ਦਾ ਪੰਜਾਬੀ ਸਾਹਿਤ
ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ |
| 2. ਅਮਰਜੀਤ ਸਿੰਘ ਕਾਂਗ ਅਤੇ
ਹਿੰਮਤ ਸਿੰਘ ਸੋਢੀ (ਸੰਪਾ.) | ਹਰਿਆਣਾ ਦਾ ਪੰਜਾਬੀ ਸਾਹਿਤ ਨੂੰ ਯੋਗਦਾਨ
ਹਰਿਆਣਾ ਸਾਹਿਤ ਅਕਾਦਮੀ, ਚੰਡੀਗੜ੍ਹ |
| 3. ਹਰਸਿਮਰਨ ਸਿੰਘ ਰੰਧਾਵਾ | ਬਿਰਤਾਂਤਕ ਗਲਪ ਪ੍ਰਬੰਧ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ, 1993 |
| 4. ਹਰਸਿਮਰਨ ਸਿੰਘ ਰੰਧਾਵਾ
ਅਤੇ ਕਰਮਜੀਤ ਸਿੰਘ | ਹਰਿਭਜਨ ਸਿੰਘ ਰੈਣੂ-ਕਾਵਿ : ਸਰੋਕਾਰ ਅਤੇ ਸਿਧਾਂਤ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ, 2013 |
| 5. ਡਾ ਸੁਖਦੇਵ ਸਿੰਘ(ਸੰਪਾ.) | ਪੰਜਾਬੀ ਸਾਹਿਤ : ਭਾਰਤੀ ਪਰਿਪੇਖ
ਪੰਜਾਬੀ ਸਾਹਿਤ ਅਕਾਦਮੀ, ਲੁਧਿਆਣਾ |
| 6. ਗੁਰਦਿਆਲ ਸਿੰਘ | ਹਰਿਆ ਣਾ ਦੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਆਲੋਚਨਾਤਮਕ ਅਧਿਐਨ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ, 2011 |
| 7 ਡਾ ਚਰਨਜੀਤ ਕੌਰ | ਰਾਮ ਸਰੂਪ ਰਿਖੀ ਦਾ ਨਾਵਲ ਸੰਸਾਰ ਵਿਸ਼ਲੇਸ਼ਣਾਤਮਕ ਅਧਿਐਨ
ਤਸਵੀਰ ਪ੍ਰਕਾਸ਼ਨ, ਕਾਲਾਂਵਾਲੀ |

Mapping Matrix for the Course MA/PUN/DSC1

Table 1: CO-PO Matrix for the Course



CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	3	3	3	3	3
LO4	3	3	3	3	3	3	3	3
Average	3	3	3	2.5	3	2.5	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	2
Average	3	3	3	2.75	2.75

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	3	3	2	3	3	3	3	3	3	3
LO3	3	3	3	3	3	3	3	3	3	3	3	3	3
LO4	3	3	3	2	3	3	3	3	3	3	3	2	2
Average	3	3	3	2.5	3	2.5	3	3	3	3	3	2.75	2.75

Paper Sixth
Nari Punjabi Sahit
MA/PUN/1/DSC2

ਪੇਪਰ ਛੇਵਾਂ
ਨਾਰੀ ਪੰਜਾਬੀ ਸਾਹਿਤ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚੋਂ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਾਰੀਵਾਦ, ਨਾਰੀ ਸਾਹਿਤ ਅਤੇ ਨਾਰੀ ਸਰੋਕਾਰਾਂ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਨਾਰੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ, ਇਸਦੇ ਝੁਕਾਵਾਂ ਅਤੇ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤਕਾਰਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- ਨਾਰੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਮੁੱਖ ਸਰੋਕਾਰਾਂ ਨਾਲ ਜਾਣ-ਪਛਾਣ ਹੋਵੇਗੀ।
- ਨਾਰੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਪੰਜਾਬੀ ਔਰਤ ਦੇ ਅੰਤਰਮਨ ਦੀ ਵੇਦਨਾ ਨੂੰ ਸਮਝਣ ਦੀ ਸੂਝ ਵਿਕਸਿਤ ਹੋਵੇਗੀ।
- ਨਾਰੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਜ਼ਰੀਏ ਨਾਰੀ ਪ੍ਰਤੀ ਭਾਵਨਾਤਮਕ ਸੋਚ ਪੈਦਾ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸੰਬੰਧਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਸੁਖਵਿੰਦਰ ਅੰਮ੍ਰਿਤ

ਕਣੀਆਂ

ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ ਲੁਧਿਆਣਾ

ਯੂਨਿਟ ਤੀਸਰਾ

ਸੁਖਵੰਤ ਕੌਰ ਮਾਨ

ਰੁੱਤ ਰਾਗ

ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2013

ਯੂਨਿਟ ਚੌਥਾ

ਸੁਰਿੰਦਰ ਨੀਰ

ਸ਼ਿਕਾਰਗਾਹ

ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ ਲੁਧਿਆਣਾ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਅੰਮ੍ਰਿਤਪਾਲ ਕੌਰ (ਸੰਪਾ.)	ਸੁਖਵੰਤ ਕੌਰ ਮਾਨ ਰਚਿਤ ਸਾਹਿਤ : ਵਿਸ਼ੇਗ ਅਧਿਐਨ ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ
2. ਅਰਵਿੰਦਰਪਾਲ ਕੌਰ	ਨਾਰੀ ਕਾਵਿ-ਚਿੰਤਨ ਵਾਰਿਸ ਸ਼ਾਹ ਫਾਊਂਡੇਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ
3. ਆਸ਼ਾ ਕੌਸਿਕ	ਨਾਰੀ ਸ਼ਸ਼ਕਤੀਕਰਣ : ਵਿਮਰਸ਼ ਏਵਮ ਯਥਾਰਥ ਪੁਆਇੰਟਰ ਪਬਲਿਸ਼ਰ, ਜੈਪੁਰ, 2004
4. ਸੁਨੀਲ ਮਹਾਵਰ	ਭਾਰਤ ਮੇ ਮਹਿਲਾ ਸ਼ਸ਼ਕਤੀਕਰਣ : ਵਿਵਿਧ ਆਯਾਮ ਔਰ ਚੁਣੌਤੀਆਂ ਅਵਿਸ਼ਕਾਰ ਪਬਲਿਸ਼ਰ, ਜੈਪੁਰ, 2013
5. ਹਰਪ੍ਰੀਤ ਕੌਰ	ਨਾਰੀਵਾਦ ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ
6. ਚਰਨਜੀਤ ਕੌਰ	ਨਾਰੀ ਚੇਤਨਾ ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ
7 ਮਾਨਚੰਦ ਖੰਡੇਲਾ	ਮਹਿਲਾ ਔਰ ਬਦਲਤਾ ਸਮਾਜਿਕ ਪਰਿਵੇਸ਼ ਅਵਿਸ਼ਕਾਰ ਪਬਲਿਸ਼ਰ, ਜੈਪੁਰ, 2012
8 ਰਵਿੰਦਰ ਕੁਮਾਰ	ਔਰਤ ਤੇ ਦਲਿਤ ਹਾਸ਼ੀਆਗਤ ਪ੍ਰਵਚਨ : ਨਵ-ਇਤਿਹਾਸਵਾਦੀ ਪਰਿਪੇਖ ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2005
9. ਰਾਕੇਸ਼ ਕੁਮਾਰ	ਨਾਰੀਵਾਦੀ ਵਿਮਰਸ਼ ਆਧਾਰ ਪ੍ਰਕਾਸ਼ਨ, ਪੰਚਕੂਲਾ, 2011
10. ਵਨੀਤਾ	ਨਾਰੀਵਾਦ ਤੇ ਸਾਹਿਤ ਅਜੰਤਾ ਬੁੱਕਸ ਇੰਟਰਨੈਸ਼ਨਲ, ਦਿੱਲੀ, 2002
11 ਸ਼ੈਲੋਦਰ ਮੌਰੀਆ	ਭਾਰਤੀਯ ਸਮਾਜ ਮੇ ਮਹਿਲਾ ਵਿਮਰਸ਼ ਏਵਮ ਯਥਾਰਥ ਪੁਆਇੰਟਰ ਪਬਲਿਸ਼ਰ, ਜੈਪੁਰ, 2012
13. ਗੁਰਮਖ ਸਿੰਘ	ਸ਼ਿਕਾਰਗਾਹ: (ਸੰਪਾਦਨ), ਸਾਂਝੇ ਸਮਿਆਂ ਦਾ ਬਿਰਤਾਂਤ ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ 2012 .
14. H. C. Upreti & Nandini Upreti	Women and Problems of Gender Discrimination Pointer Publisher, Jaipur, 2011
13.M. F. Patel	Feminism in Contemporary Indian Women writers Avishkar Publisher, Jaipur, 2011
14 R. C. Hiremath	Women in Changing World Pointer Publisher, Jaipur, 2011
15 Leela Desai	Feminism and Its Strategies Pointer Publisher, Jaipur, 2003
16. Leela Desai	Issues in Feminism Pointer Publisher, Jaipur, 2004

Mapping Matrix for the Course MA/PUN/1/DSC2

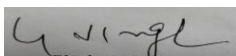
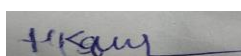



Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	2.75	3	2	3	2	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	2.75	3	2.75	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	2	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	2.75	3	2	3	2	3	3	3	2.75	3	2.75	3

Paper Seventh
Pakistani Punjabi Sahit

MA/PUN/1/DSC3
ਪੇਪਰ- ਸਤਵਾਂ
ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਸਾਹਿਤ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ :70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚੋਂ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ, ਇਸਦੇ ਝੁਕਾਵਾਂ ਅਤੇ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤਕਾਰਾਂ ਨਾਲ ਜਾਣ-ਪਛਾਣ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

1. ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਮੁੱਖ ਸਰੋਕਾਰਾਂ ਨਾਲ ਜਾਣ-ਪਛਾਣ ਹੋਵੇਗੀ।
2. ਪਾਕਿਸਤਾਨੀ ਸਾਹਿਤਕਾਰਾਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਦੇ ਹਵਾਲੇ ਨਾਲ ਪਾਕਿਸਤਾਨ ਵਿਚਲੇ ਪੰਜਾਬੀ ਜਨ-ਜੀਵਨ ਨੂੰ ਸਮਝਣ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।
3. ਪਾਕਿਸਤਾਨੀ ਸਾਹਿਤ ਦੇ ਹਵਾਲੇ ਨਾਲ ਪਾਕਿਸਤਾਨ ਵਿਚਲੀ ਸਭਿਆਚਾਰ ਸੋਚ ਨੂੰ ਸਮਝਣ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।
4. ਪਾਕਿਸਤਾਨੀ ਸਾਹਿਤਕਾਰਾਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਦੇ ਹਵਾਲੇ ਨਾਲ ਪਾਕਿਸਤਾਨ ਵਿਚਲੇ ਪੰਜਾਬੀ ਜਨ-ਜੀਵਨ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ ਨੂੰ ਸਮਝਣ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸੰਬੰਧਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਅਫਜ਼ਲ ਅਹਿਸਨ ਰੰਧਾਵਾ ਦੁਆਬਾ
ਗੁਲਜ਼ਾਰ ਸਿੰਘ ਸੰਧੂ(ਸਪਾ), ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ

ਯੂਨਿਟ ਤੀਸਰਾ

ਮੇਜਰ ਇਸਹਾਕ ਮਹੰਮਦ ਕੁਕਨਸ
ਨਿਊ ਏਜ਼ ਬੁੱਕ ਸੈਟਰ, ਅੰਮ੍ਰਿਤਸਰ

ਯੂਨਿਟ ਚੌਥਾ

ਡਾ. ਜਸਵਿੰਦਰ ਸਿੰਘ ਸੈਣੀ
ਪਰਮਜੀਤ ਸਿੰਘ ਮੀਸ਼ਾ(ਸੰਪਾ)

ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਕਵਿਤਾ
ਗ੍ਰੇਸੀਅਸ ਬੁੱਕਸ, ਪਟਿਆਲਾ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਅਜਮੇਰ ਸਿੰਘ (ਸੰਪਾ.)
ਖੋਜ ਪਤ੍ਰਿਕਾ (ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਵਿਸ਼ੇਸ਼ ਅੰਕ) ਅੰਕ 37
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2000
2. ਇੰਦਰਪਾਲ ਕੌਰ (ਸੰਪਾ.)
ਸ਼ਬਦ ਬੂੰਦ (ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਵਿਸ਼ੇਸ਼ ਅੰਕ)
ਹਰਿਆਣਾ ਪੰਜਾਬੀ ਸਾਹਿਤ ਅਕਾਦਮੀ, ਪੰਚਕੂਲਾ
3. ਸਤਿੰਦਰ ਸਿੰਘ ਨੂਰ ਅਤੇ
ਰਵੇਲ ਸਿੰਘ (ਸੰਪਾ.)
ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਸਾਹਿਤ
ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ, 2001
4. ਸਤੀਸ਼ ਕੁਮਾਰ ਵਰਮਾ
ਅਤੇ ਨਸੀਬ ਬਵੇਜਾ (ਸੰਪਾ.)
ਚੋਣਵਾਂ ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਨਾਟਕ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
5. ਹਰਬੰਸ ਸਿੰਘ ਧੀਮਾਨ
ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਸਾਹਿਤ : ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ
ਗਗਨ ਪ੍ਰਕਾਸ਼ਨ, ਰਾਜਪੁਰਾ, 1998
6. ਕਰਨੈਲ ਸਿੰਘ ਬਿੰਦ
ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਸੰਖੇਪ ਜਾਇਜ਼ਾ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2006
7. ਗੁਰਚਰਨ ਸਿੰਘ ਮਹਿਤਾ
ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਸਾਹਿਤ : ਇੱਕ ਪਰਿਚਯ ਇੱਕ ਜਾਇਜ਼ਾ
ਰਵੀ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ, 1998
8. ਜਤਿੰਦਰ ਪਾਲ ਸਿੰਘ
ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਗਲਪ ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ, 2001

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	2.75	3	2	3	2	3	3

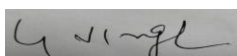
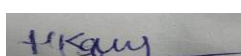
Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	2.75	3	2.75	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	2	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	2
Average	3	2.75	3	2	3	2	3	3	3	2.75	3	2.75	2.75

Paper Eighth
Parvasi Punjabi Sahit

MA/PUN/1/DSC4

ਪੇਪਰ ਅਠਵਾਂ
ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ :70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚੋਂ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ, ਇਸਦੇ ਝੁਕਾਵਾਂ ਅਤੇ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤਕਾਰਾਂ ਨਾਲ ਜਾਣ-ਪਛਾਣ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- ਪਰਵਾਸੀ ਚੇਤਨਾ ਦੇ ਹਵਾਲੇ ਨਾਲ ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਮੁੱਖ ਸਰੋਕਾਰਾਂ ਨਾਲ ਜਾਣ-ਪਛਾਣ ਹੋਵੇਗੀ।
- ਵਿਦਿਆਰਥੀ ਪਰਵਾਸੀ ਸਾਹਿਤਕਾਰਾਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਦੇ ਹਵਾਲੇ ਨਾਲ ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਜੀਵਨ ਜਾਂਚ ਨੂੰ ਸਮਝਣ ਦੇ ਯੋਗ ਹੋਣਗੇ।
- ਵਿਦਿਆਰਥੀ ਪਰਵਾਸੀ ਸਾਹਿਤ ਰਾਹੀਂ ਪੰਜਾਬੀ ਤੇ ਪਰਵਾਸੀ ਸਭਿਆਚਾਰ ਵਿਚਲੇ ਅੰਤਰ-ਸੰਬੰਧ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
- ਵਿਦਿਆਰਥੀ ਪਰਵਾਸੀ ਸਾਹਿਤ ਰਾਹੀਂ ਪਰਵਾਸ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸੰਬੰਧਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਜਾ

ਸੁਖਪਾਲ

ਚੁੱਪ ਚਪੀਤੇ ਚੇਤਰ ਚੜ੍ਹਿਆ

ਅੰਤਰਨਾਦ ਪ੍ਰਕਾਸ਼ਨ, ਪਟਿਆਲਾ, 2011

ਯੂਨਿਟ ਤੀਜਾ

ਹਰਜੀਤ ਅਟਵਾਲ

ਬ੍ਰਿਟਿਸ਼ ਬੌਰਨ ਦੇਸੀ

ਸੰਗਮ ਪਬਲੀਕੇਸ਼ਨ, ਸਮਾਨਾ

ਯੂਨਿਟ ਚੌਥਾ

ਜਰਨੈਲ ਸਿੰਘ

ਕਾਲੇ ਵਰਕੇ

ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2015

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

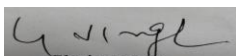
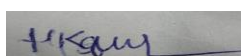
1. ਅਕਾਲ ਅੰਮ੍ਰਿਤ ਕੌਰ

ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਗਲਪ : ਨਵੇਂ ਪਾਸਾਰ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ

2. ਸ. ਪ. ਸਿੰਘ	ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ
3. ਹਰਚੰਦ ਸਿੰਘ ਬੇਦੀ	ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਗਲਪ : ਨਸਲਵਾਦੀ ਪਰਿਪੇਖ ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ, 2003
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6. ਜਸਪਾਲ ਕੌਰ	ਕੈਨੇਡਾ ਦੀ ਪੰਜਾਬੀ ਕਵਿਤਾ : ਥੀਮ ਵਿਗਿਆਨਕ ਅਧਿਐਨ ਸ਼ਿਲਾਲੇਖ, ਦਿੱਲੀ, 1998
7. ਜਸਵਿੰਦਰ ਸਿੰਘ ਅਤੇ ਸੁਰਜੀਤ ਸਿੰਘ	ਪੰਜਾਬੀ ਡਾਇਸਪੋਰਾ, ਸਾਹਿਤ ਅਤੇ ਸਭਿਆਚਾਰ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2012
8. ਜਸਵਿੰਦਰ ਕੌਰ ਮਾਂਗਟ (ਸੰਪਾ.)	ਪੰਜਾਬੀ ਡਾਇਸਪੋਰਾ (22ਵੀਂ ਅੰਤਰਰਾਸ਼ਟਰੀ ਕਾਨਫਰੰਸ 1 ਤੋਂ 3 ਫਰਵਰੀ, 2006) ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2012
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11. ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼ ਸਿੰਘ ਧਾਲੀਵਾਲ	ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ : ਮੁੱਲ ਤੇ ਮੁਲਾਂਕਣ ਮਦਾਨ ਪਬਲੀਕੇਸ਼ਨ, ਪਟਿਆਲਾ, 1999
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13. ਰਾਜਿੰਦਰ ਸਿੰਘ ਲਾਂਬਾ	ਖੋਜ ਪਤ੍ਰਿਕਾ (ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਵਿਸ਼ੇਸ਼ ਅੰਕ ਅੰਕ 40 ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2000
14. ਰਾਜਿੰਦਰ ਪਾਲ ਸਿੰਘ ਅਤੇ ਹੋਰ (ਸੰਪਾ.)	ਪੰਜਾਬੀ ਡਾਇਸਪੋਰਾ ਸਾਹਿਤ ਅਤੇ ਸਭਿਆਚਾਰ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2011
15. -ਉਹੀ-	ਪੰਜਾਬੀ ਡਾਇਸਪੋਰਾ ਅਧਿਐਨ ਅਤੇ ਅਧਿਆਪਨ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2011
16 ਡਾ ਬਲਦੇਵ ਸਿੰਘ ਧਾਲੀਵਾਲ	ਪ੍ਰਵਾਸੀ ਪੰਜਾਬੀ ਕਹਾਣੀ ਸਪਤਰਿਸ਼ੀ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ

Mapping Matrix for the Course MA/PUN/1/DSC4

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

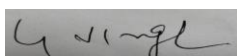
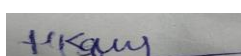
Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	3	3	2	3	2	3	3	3	3	3	2.75	3

Semester Second
Paper Ninth
Punjabi Kissa Ate Bir Rasi Kav
MA/PUN/2/CC5

ਪੇਪਰ ਨੋਟਾਂ
ਪੰਜਾਬੀ ਕਿੱਸਾ ਅਤੇ ਬੀਰ ਰਸੀ ਕਾਵਿ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮੱਧਕਾਲੀਨ ਚੇਤਨਾ ਦੇ ਹਵਾਲੇ ਨਾਲ ਮੱਧਕਾਲ ਵਿੱਚ ਪੈਦਾ ਹੋਈਆਂ ਕਾਵਿ ਧਾਰਾਵਾਂ ਕਿੱਸਾ, ਵਾਰ ਅਤੇ ਜੰਗਨਾਮਾ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਬਿਰਤਾਂਤ ਅਤੇ ਕਾਵਿ ਦੇ ਆਪਸੀ ਸੰਬੰਧਾਂ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੋਵੇਗਾ।
- ਕਿੱਸਾ, ਵਾਰ ਅਤੇ ਜੰਗਨਾਮਾ ਕਾਵਿ ਵਿਚਲੀਆਂ ਵਿਚਾਰਧਾਰਕ ਸਾਂਝਾਂ ਅਤੇ ਵਖਰੇਵਿਆਂ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।
- ਕਿੱਸਾ ਕਾਵਿ ਦੇ ਸੰਕਲਪਿਕ ਗਿਆਨ ਦੁਆਰਾ ਪੰਜਾਬੀ ਕਿੱਸਾ ਪਰੰਪਰਾ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
- ਕਿੱਸਾ ਅਤੇ ਬੀਰ ਰਸੀ ਸਾਹਿਤ ਦੇ ਹਵਾਲੇ ਨਾਲ ਮੱਧਕਾਲੀਨ ਪੰਜਾਬੀ ਸਮਾਜ-ਸਭਿਆਚਾਰ ਨੂੰ ਸਮਝਣ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸੰਬੰਧਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਵਾਰਸ ਸ਼ਾਹ

ਹੀਰ

ਭਾਸ਼ਾ ਵਿਭਾਗ ਪੰਜਾਬ, ਪਟਿਆਲਾ

ਯੂਨਿਟ ਤੀਸਰਾ

ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ

ਚੰਡੀ ਦੀ ਵਾਰ

ਸਿੰਘ ਬ੍ਰਦਰਜ਼, ਅੰਮ੍ਰਿਤਸਰ

ਯੂਨਿਟ ਚੌਥਾ

ਸ਼ਾਹ ਮੁਹੰਮਦ

ਜੰਗਨਾਮਾ ਸਿੰਘਾਂ ਤੇ ਫ਼ਰੰਗੀਆਂ

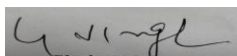
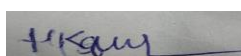
ਪੈਪਸੂ ਬੁੱਕ ਡਿੱਪੂ, ਪਟਿਆਲਾ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਅਤਰ ਸਿੰਘ	ਸਮਦਰਸ਼ਨ ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ, 1982
2. ਅਮਰਜੀਤ ਸਿੰਘ ਕਾਂਗ	ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਅਧਿਐਨ ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ
3. ਸਤੀਸ਼ ਕੁਮਾਰ ਵਰਮਾ ਅਤੇ ਜਸਪਾਲ ਕੌਰ ਕਾਂਗ	ਅਮਰਜੀਤ ਸਿੰਘ ਕਾਂਗ ਰਚਨਾਵਲੀ, ਪਬਲੀਕੇਸ਼ਨ ਬਿਊਰੋ ਪਟਿਆਲਾ, 2017
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Mapping Matrix for the Course MA/PUN/2/CC5

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	3	3	3	3	2	3	3
LO4	3	3	3	3	3	3	3	3
Average	3	2.75	3	2.75	3	2.25	3	3

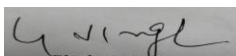
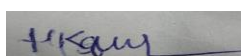
Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	3	3	2
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.5	3	2.75

Table 4: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	3	3	2
LO3	3	3	3	3	3	3	3	3	3	3	2	3	3
LO4	3	3	3	3	3	3	3	3	3	3	3	3	3
Average	3	2.75	3	2.75	3	2.75	3	3	3	3	2.5	3	2.75

Paper Tenth
Punjabi te Pachhmi Sahit Sidhant ate punjabi alochna
MA/PUN/2/CC6

ਪੇਪਰ ਦਸਵਾਂ
ਪੰਜਾਬੀ ਤੇ ਪੱਛਮੀ ਸਾਹਿਤ ਸਿਧਾਂਤ ਅਤੇ ਪੰਜਾਬੀ ਅਲੋਚਨਾ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ, ਸਾਹਿਤ ਅਧਿਐਨ ਅਤੇ ਸਾਹਿਤ ਸਿਧਾਂਤ ਨਾਲ ਸੰਬੰਧਤ ਵੱਖ-ਵੱਖ ਸੰਕਲਪਾਂ ਦਾ ਬੋਧ ਹਾਸਲ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

1. ਸਾਹਿਤ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਸਮੇਂ ਪ੍ਰਚੱਲਿਤ ਵਾਦਾਂ ਅਤੇ ਆਧੁਨਿਕ ਸਾਹਿਤ ਅਧਿਐਨ ਪ੍ਰਣਾਲੀਆਂ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
2. ਵਿਦਿਆਰਥੀਆਂ ਪੱਛਮੀ ਅਤੇ ਪੰਜਾਬੀ ਸਾਹਿਤ ਸ਼ਾਸਤਰੀਆਂ ਦੇ ਹਵਾਲੇ ਨਾਲ ਸਾਹਿਤ ਸਿਧਾਂਤ ਦੇ ਸੰਕਲਪ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
3. ਪੰਜਾਬੀ ਸਿਧਾਂਤਕਾਰਾਂ ਦੇ ਹਵਾਲੇ ਨਾਲ ਪੰਜਾਬੀ ਸਾਹਿਤ ਚਿੰਤਨ ਅਤੇ ਅਲੋਚਨਾ ਦੇ ਇਤਿਹਾਸਕ ਵਿਕਾਸ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
4. ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਸਾਹਿਤ ਸਿਧਾਂਤਾਂ ਰਾਹੀਂ ਨਵੇਂ ਵਿਚਾਰ ਅਤੇ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ : ਸਾਹਿਤ ਤੇ ਹੋਰ ਅਨੁਸ਼ਾਸਨ ਅਤੇ ਸਾਹਿਤਕ ਵਾਦ

- (ੳ) ਸਾਹਿਤ ਤੇ ਸਮਾਜ
- (ਅ) ਸਾਹਿਤ ਤੇ ਮਨੋਵਿਗਿਆਨ
- (ੲ) ਸਾਹਿਤ ਤੇ ਰਾਜਨੀਤੀ
- (ਸ) ਸਾਹਿਤ ਅਤੇ ਵਿਚਾਰਧਾਰਾ

ਯੂਨਿਟ ਦੂਸਰਾ : ਸਾਹਿਤਕ ਵਾਦ

ਪ੍ਰਗਤੀਵਾਦ, ਰੁਮਾਂਸਵਾਦ, ਯਥਾਰਥਵਾਦ, ਅਸਤਿਤਵਵਾਦ, ਮਨੋਵਿਸ਼ਲੇਸ਼ਣਵਾਦ

ਯੂਨਿਟ ਤੀਸਰਾ : ਆਧੁਨਿਕ ਸਾਹਿਤ ਸਿਧਾਂਤ

ਮਾਰਕਸਵਾਦ, ਸੰਰਚਨਾਵਾਦ, ਚਿਹਨ ਵਿਗਿਆਨ, ਉੱਤਰ ਆਧੁਨਿਕ ਸਾਹਿਤ ਸਿਧਾਂਤ, ਨਾਰੀਵਾਦ, ਦਲਿਤ ਚਿੰਤਨ

ਯੂਨਿਟ ਚੌਥਾ :

ਪੰਜਾਬੀ ਸਾਹਿਤ ਅਲੋਚਨਾ

ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ-ਕਵਿਤਾ ਤੇ ਸਮਾਜਿਕ ਆਲੋਚਨਾ (ਸਾਹਿਤਿਆਰਥ), ਕਿਸ਼ਨ ਸਿੰਘ-ਸਾਹਿਤਕਾਰ ਦਾ ਕਰਤੱਵ (ਸਾਹਿਤ ਦੇ ਸੋਮੇ), ਨਜ਼ਮ ਹੁਸੈਨ ਸੱਯਦ -ਪੰਜਾਬੀ ਸ਼ੇਅਰ ਰੀਤ ਦੇ ਸਦੀਵੀ ਸੁਭਾਅ ਤੇ ਬੁੱਲੇ ਸ਼ਾਹ(ਸੋਧਾਂ, ਸਾਰਾਂ ਤੇ ਹੋਰ ਲੇਖ), ਹਰਿਭਜਨ ਸਿੰਘ-ਪੰਜਾਬੀ ਨਾਵਲ: ਰੂਪ ਰਚਨਾ (ਪਾਰਗਾਮੀ), ਤਰਲੋਕ ਸਿੰਘ ਕੰਵਰ -ਗੁਰੂ ਨਾਨਕ ਬਾਣੀ ਵਿੱਚ ਰਾਜਨੀਤਿਕ ਅਵਚੇਤਨ ਦਾ ਨਿਰਮਾਣ (ਗੁਰੂ ਨਾਨਕ ਦਾ ਕਾਵਿ ਸ਼ਾਸਤਰ), ਰਵਿੰਦਰ ਸਿੰਘ ਰਵੀ-ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਅਤੇ ਭਾਰਤੀ ਸਭਿਆਚਾਰ (ਰਵੀ ਚੇਤਨਾ), ਜੋਗਿੰਦਰ ਸਿੰਘ ਰਾਹੀ-ਕਹਤ ਸੁਨਤ ਹੋ ਕਥਾ-ਬਾਰਤਾ (ਜੋਤ-ਜੁਗਤ ਕੀ ਬਾਰਤਾ).

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

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ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ
2. ਸੁਤਿੰਦਰ ਸਿੰਘ ਨੂਰ ਨਵੀਨ ਪੰਜਾਬੀ ਆਲੋਚਨਾ
ਇਕੱਤੀ ਫਰਵਰੀ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਬਾਲਾ ਕੈਂਟ
3. ਸੁਤਿੰਦਰ ਸਿੰਘ ਨੂਰ ਅਤੇ ਰਵੇਲ ਸਿੰਘ ਸਮਕਾਲੀ ਪੱਛਮੀ ਚਿੰਤਨ
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18. ਗੁਰਨਾਇਬ ਸਿੰਘ ਖੋਜ ਪਤ੍ਰਿਕਾ (ਪੰਜਾਬੀ ਆਲੋਚਕ ਵਿਸ਼ੇਸ਼ ਅੰਕ)
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20. ਗੋਪੀ ਚੰਦ ਨਾਰੰਗ ਸੰਰਚਨਾਵਾਦ, ਉੱਤਰ-ਸੰਰਚਨਾਵਾਦ ਅਤੇ ਪੂਰਬੀ ਕਾਵਿ ਸ਼.ਸ਼ਾਸਤਰ
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ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, 2004
22. -ਉਹੀ- ਜੋਤ-ਜੁਗਤ ਕੀ ਬਾਰਤਾ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, 2006
23. ਤਰਲੋਕ ਸਿੰਘ ਕੰਵਰ ਸਾਹਿਤ ਅਧਿਐਨ ਦੀ ਸੰਰਚਨਾਵਾਦੀ ਪ੍ਰਣਾਲੀ ਅਰਵਿੰਦ ਹਨੂਮੰਤ ਪ੍ਰਕਾਸ਼ਨ ਦਿੱਲੀ, 1975
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ਸਿੰਧੂ ਪਬਲੀਕੇਸ਼ਨ, ਦਿੱਲੀ, 1994

25. ਦਵਿੰਦਰ ਸੈਫੀ ਸਿਧਾਂਤਕਾਰੀ ਅਤੇ ਪੰਜਾਬੀ ਸਿਧਾਂਤਕਾਰ
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ਤਰਕ ਭਾਰਤੀ ਪ੍ਰਕਾਸ਼ਨ, ਬਰਨਾਲਾ, 2004
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ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
29. ਰਵਿੰਦਰ ਸਿੰਘ ਰਵੀ ਰਵੀ ਚੇਤਨਾ
ਰਵੀ ਮੈਮੋਰੀਅਲ ਟ੍ਰੱਸਟ, ਪਟਿਆਲਾ, 1991
30. ਰਾਜਿੰਦਰ ਪਾਲ ਸਿੰਘ ਉੱਤਰ ਆਧੁਨਿਕਤਾ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2011
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32. Leela Desai Issues in Feminism
Pointer Publisher, Jaipur, 2004
- 33 Leela Desai Feminism and Its Strategies
Pointer Publisher, Jaipur, 2004
- 34 Robert N. Mollinger Psychoanalysis and Literature : An Introduction Nelson-Hall, 1981R
- 35 R. Robyn Warhol & Feminism : An Anthology of literary Theory and
Criticism Diane Price Herndl Rutgers UP, New Jersey, 1997

Mapping Matrix of Course MA/PUN/2/CC6

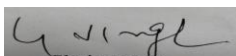
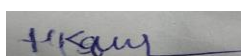



Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	2	3	2	3	2	3	3
Average	3	2.5	3	2	3	2	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3: CO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	2	3	2	3	2	3	3	3	3	3	2	3
Average	3	2.5	3	2	3	2	3	3	3	3	3	2.75	3

MA/PUN/2/CC7

ਪੇਪਰ ਗਿਆਰਵਾਂ

ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (1851 ਤੋਂ ਹੁਣ ਤੱਕ)

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਇਤਿਹਾਸਕਾਰੀ ਦੇ ਸੰਕਲਪ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਾਂ ਦਾ ਆਲੋਚਨਾਤਮਕ ਅਧਿਐਨ ਕਰਨ ਦੇ ਸਮਰੱਥ ਹੋਣਗੇ।
2. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਦੀ ਲੇਖਣ ਦੀ ਪਰੰਪਰਾ, ਸਮੱਸਿਆਵਾਂ ਅਤੇ ਸਮੱਗਰੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਗੇ।
3. ਆਧੁਨਿਕ ਕਾਲ ਵਿਚਲੇ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤ ਰੂਪਾਂ ਦੀ ਰੂਪ-ਰਚਨਾ ਦੀ ਵਿਧਾਮੂਲਕ ਸਮਝ ਪੈਦਾ ਹੋਵੇਗੀ।
4. ਆਧੁਨਿਕ ਕਾਲ ਵਿਚਲੀਆਂ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤਕ ਧਾਰਾਵਾਂ ਦੇ ਮੂਲ ਸਰੋਕਾਰਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਇਤਿਹਾਸਕਾਰੀ :

(ੳ) ਪੰਜਾਬੀ ਸਾਹਿਤ ਇਤਿਹਾਸ ਲੇਖਣ ਦੀ ਪਰੰਪਰਾ

(ਅ) ਪੰਜਾਬੀ ਸਾਹਿਤ ਇਤਿਹਾਸ ਦੀ ਆਧਾਰ ਮੂਲਕ ਸਮੱਗਰੀ ਅਤੇ ਸਾਹਿਤ ਇਤਿਹਾਸ ਲੇਖਣ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ

(ੲ) ਪ੍ਰਮੁੱਖ ਪੰਜਾਬੀ ਸਾਹਿਤ ਇਤਿਹਾਸਾਂ ਦਾ ਆਲੋਚਨਾਤਮਕ ਅਧਿਐਨ

ਯੂਨਿਟ ਦੂਸਰਾ

1851 ਈ. ਤੋਂ ਲੈ ਕੇ 1900 ਈ. ਤੱਕ ਦਾ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ

ਯੂਨਿਟ ਤੀਸਰਾ

1901 ਈ. ਤੋਂ ਲੈ ਕੇ 1960 ਈ. ਤੱਕ ਦਾ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ

ਯੂਨਿਟ ਚੌਥਾ

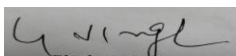
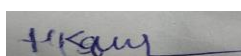
1961 ਈ. ਤੋਂ ਲੈ ਕੇ ਹੁਣ ਤੱਕ ਦਾ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਅਤਰ ਸਿੰਘ	ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (ਭਾਗ ਪਹਿਲਾ) ਭਾਸ਼ਾ ਵਿਭਾਗ ਪੰਜਾਬ, ਪਟਿਆਲਾ, 1971
2. ਕਿਰਪਾਲ ਸਿੰਘ ਕਸੇਲ, ਗੋਬਿੰਦ ਸਿੰਘ ਲਾਂਬਾ ਅਤੇ ਪਰਮਿੰਦਰ ਸਿੰਘ	ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਉਤਪਤੀ ਤੇ ਵਿਕਾਸ ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ, 1974
3. ਜਸਵਿੰਦਰ ਸਿੰਘ ਅਤੇ ਮਾਨ ਸਿੰਘ ਢੀਂਡਸਾ	ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (ਆਧੁਨਿਕ ਕਾਲ) ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
4. ਜੀਤ ਸਿੰਘ ਸੀਤਲ	ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਆਲੋਚਨਾਤਮਕ ਇਤਿਹਾਸ ਪੈਪਸੂ ਬੁੱਕ ਡਿੱਪੂ, ਪਟਿਆਲਾ, 1976
5. ਧਰਮਪਾਲ ਸਿੰਗਲ	ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ
6. ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (ਦੋ ਜਿਲਦਾਂ)	ਭਾਸ਼ਾ ਵਿਭਾਗ ਪੰਜਾਬ।
7 ਜੀਤ ਸਿੰਘ ਜੋਸ਼ੀ	ਅਧਿਐਨ ਤੇ ਅਧਿਆਪਨ। ਵਾਰਿਸ ਸ਼ਾਹ ਫਾਊਂਡੇਸ਼ਨ, ਅਮ੍ਰਿਤਸਰ।

Matrix of Course MA/PUN/2/CC7

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	3	3	2	3	2	3	3	3	3	3	2.75	3

MA/PUN/2/DSC5
ਪੇਪਰ ਬਾਰਵਾਂ
ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਰੂਸੀ ਸਾਹਿਤ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਰੂਸੀ ਸਾਹਿਤ ਨਾਲ ਸੰਬੰਧ ਜਾਣ-ਪਛਾਣ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Course Outcomes)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਰੂਸੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ, ਇਸਦੇ ਝੁਕਾਵਾਂ ਬਾਰੇ ਸੰਬੰਧ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਰੂਸੀ ਸਾਹਿਤ ਦੇ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤਕਾਰਾਂ ਬਾਰੇ ਸੰਬੰਧ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- ਵਿਦਿਆਰਥੀ ਰੂਸੀ ਸਭਿਆਚਾਰ ਬਾਰੇ ਸੂਝ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਰੂਸੀ ਸਾਹਿਤ ਦੇ ਮੁੱਖ ਸਰੋਕਾਰਾਂ ਨਾਲ ਸੰਬੰਧ ਜਾਣ-ਪਛਾਣ ਹਾਸਲ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸੰਬੰਧਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਮੈਕਸਿਮ ਗੋਰਕੀ ਮਾਂ
ਗੁਰਬਖਸ਼(ਅਨੁ.) ਪ੍ਰਗਤੀ ਪ੍ਰਕਾਸ਼ਨ, ਮਾਸਕੋ

ਯੂਨਿਟ ਤੀਸਰਾ

ਚੈਖੋਵ ਚੋਣਵੀਆਂ ਕਹਾਣੀਆਂ
ਪ੍ਰਗਤੀ ਪ੍ਰਕਾਸ਼ਨ, ਮਾਸਕੋ

ਯੂਨਿਟ ਚੌਥਾ

ਰਸੂਲ ਹਮਜ਼ਾਤੋਵ ਮੇਰਾ ਦਾਗਿਸਤਾਨ (ਤਾਗ ਪਹਿਲਾ)
ਪੰਜਾਬ ਬੁੱਕ ਸੈਂਟਰ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. Andrew Barlatt & Barry P. Scherr Maxim Gorky : Selected Letters
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2. Donald Rayfield Anton Chekhov : A Life
North Western University Press, 1998
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5. Richard Pevear Selected Stories of Anton Chekhov
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6. Tovah Yedlin Maxim Gorki : A Political Biography
Praeger Publisher, West Port CT, U.S.A., 1999
7. Valentine T. Bill Chekhov : The Silent Voice Of Freedom

Mapping Matrix of Course MA/PUN/2/DSC5

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	2	2	2	2	3	3
LO2	3	3	3	2	2	3	3	3
LO3	3	3	3	2	2	3	3	3
LO4	3	3	3	2	2	2	3	3
Average	3	3	2.75	2	2	2.5	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	2.75	3	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	2	2	2	2	3	3	3	2	3	3	3
LO2	3	3	3	2	2	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	3	3	3	3	3	3	3
LO4	3	3	3	2	2	2	3	3	3	3	3	3	3
Average	3	3	2.75	2	2	2.5	3	3	3	2.75	3	3	3

Punjabi Vich Anuvadt Angrezi Sahit

MA/PUN/2/DSC6

ਪੇਪਰ ਤੇਰਵਾਂ

ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਅੰਗਰੇਜ਼ੀ ਸਾਹਿਤ

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਅੰਗਰੇਜ਼ੀ ਸਾਹਿਤ ਨਾਲ ਸੰਬੰਧ ਜਾਣ-ਪਛਾਣ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Course Outcome)

1. ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਅੰਗਰੇਜ਼ੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ, ਇਸਦੇ ਝੁਕਾਵਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
2. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਅੰਗਰੇਜ਼ੀ ਸਾਹਿਤ ਦੇ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤਕਾਰਾਂ ਬਾਰੇ ਸੰਬੰਧ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
3. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਅੰਗਰੇਜ਼ੀ ਸਾਹਿਤ ਰਾਹੀਂ ਗਲੋਬਲੀ ਪਰਿਪੇਖ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
4. ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਅੰਗਰੇਜ਼ੀ ਸਾਹਿਤ ਦੇ ਮੁੱਖ ਸਰੋਕਾਰਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸਬੰਧਿਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਸ਼ੇਕਸਪੀਅਰ ਮੈਕਬਥ
ਹਰਦਿਲਬਾਗ ਗਿੱਲ(ਅਨੁ.) ਅਸਥੈਟਿਕ ਪਬਲੀਕੇਸ਼ਨ, ਲੁਧਿਆਣਾ

ਯੂਨਿਟ ਤੀਸਰਾ

ਅਰਨੈਸਟ ਹੈਮਿੰਗਵੇ ਬੁੱਢਾ ਤੇ ਸਮੁੰਦਰ
ਪਵਨ ਗੁਲਾਟੀ (ਅਨੁ.) ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ

ਯੂਨਿਟ ਚੌਥਾ

ਖੁਸ਼ਵੰਤ ਸਿੰਘ

ਪਾਕਿਸਤਾਨ ਮੇਲ

ਗੁਲਜ਼ਾਰ ਸਿੰਘ ਸੰਧੂ (ਅਨੁ.)

ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2001

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

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7. Granville Barker Preface to Shakespeare
Anlantic Publishers and Distributors Pvt. Ltd, Delhi, 2007
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9. Jackson J. Benson (ed.) New Critical Approach to the Short Stories of Ernest
Hemingway
Duke University Press, 1990
10. James Nagel (Ed.) Critical Essays on Ernest Hemingway's The Sun Also rises
G. K. Hall, 1995
11. John Arthos The Art of Shakespeare
Bowes and Bowes, London, 1964
12. Michael Taylor Shakespeare Criticism in Twentieth Century
Oxford University Press, Canada, 2001
13. Mirian Allott Novelists and the Novel
Routledge, Kegan Paul, London
14. Robert O. Stephens (Ed.) Ernest Hemingway : The Critical Reception
B. Franklin & Co., Inc, 1977
15. Subodh Chandra Sen Shakespeare Comedy
Gupta Indian Branch, oxford University Press, 1950
16. Linda Wagner Martin Ernest Hemingway : Seven Dacades of Criticism
Michhigan State University Press, 1998
17. Terry Eaglton The English Novel : An Introduction
Blackwell Publishing Ltd., 2005

Mapping Matrix of Course MA/PUN/2/DSC6

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	2	2	2	2	3	3
LO2	3	3	3	2	2	3	3	3
LO3	3	3	3	2	2	3	3	3
LO4	3	3	3	2	2	2	3	3
Average	3	3	2.75	2	2	2.5	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	2.75	3	3	3

Table 4: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	2	2	2	3	3	3	2	3	3	3
LO2	3	3	3	2	2	2	3	3	3	3	3	3	3
LO3	3	3	3	2	2	2	3	3	3	3	3	3	3
LO4	3	3	3	2	2	2	3	3	3	3	3	3	3
Average	3	3	2.75	2	2	2.5	3	3	3	2.75	3	3	3

Punjabi Vich Anuvadt Hindi Sahit

MA/PUN/2/DSC7

ਪੇਪਰ ਚੋਦਵਾਂ

ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਹਿੰਦੀ ਸਾਹਿਤ

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ :70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਹਿੰਦੀ ਸਾਹਿਤ, ਸਾਹਿਤਕਾਰਾਂ ਅਤੇ ਸਾਹਿਤ ਇਤਿਹਾਸ ਨਾਲ ਸੰਬੰਧ ਜਾਣ-ਪਛਾਣ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

1. ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਹਿੰਦੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਅਤੇ ਝੁਕਾਵਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
2. ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਹਿੰਦੀ ਸਾਹਿਤ ਦੇ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤਕਾਰਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
3. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਅਤੇ ਹਿੰਦੀ ਸਾਹਿਤ ਦੇ ਅੰਤਰ ਸੰਬੰਧ ਬਾਰੇ ਸੂਝ ਪ੍ਰਾਪਤ ਕਰਣਗੇ।
4. ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਹਿੰਦੀ ਸਾਹਿਤ ਦੇ ਮੁੱਖ ਸਰੋਕਾਰਾਂ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੋਵੇਗਾ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸੰਬੰਧਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਭੀਸ਼ਮ ਸਾਹਨੀ

ਤਮਸ

ਆਰਸੀ ਪਬਲਿਸ਼ਰਜ਼, ਦਿੱਲੀ

ਯੂਨਿਟ ਤੀਸਰਾ

ਨਰੇਸ਼ ਸਕਸੈਨਾ

ਸਮੁੰਦਰ 'ਤੇ ਹੋ ਰਹੀ ਬਾਰਿਸ਼

(ਅਨੁ. ਜਗਦੀਪ ਸਿੱਧੂ)

ਕੈਲੀਬਰ ਪਬਲੀਕੇਸ਼ਨ, ਪਟਿਆਲਾ 2017,

ਯੂਨਿਟ ਚੌਥਾ

ਜਿੰਦਰ (ਸੰਪਾ)

ਮੋਹ

ਸੰਗਮ ਪਬਲੀਕੇਸ਼ਨ ,ਸਮਾਣਾ2019 ,

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

- 1 ਸੁਸ਼ਮਾ ਧਵਨ ਹਿੰਦੀ ਉਪਨਿਆਸ, ਰਾਜਕਮਲ ਪ੍ਰਕਾਸ਼ਨ ,ਨਵੀਂ ਦਿੱਲੀ
2. ਆਚਾਰਯ ਰਾਮ ਚੰਦਰ ਸ਼ੁਕਲ ਹਿੰਦੀ ਸਾਹਿਤਯ ਕਾ ਇਤਿਹਾਸ
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ਸੁਕੀਰਤ ਪ੍ਰਕਾਸ਼ਨ, ਕੈਥਲ, 2012
4. ਸਾਧਨਾ ਸ਼ਾਹ ਨਈਂ ਕਹਾਨੀ ਕੇ ਤੀਨ ਆਯਾਮ (ਕਮਲੇਸ਼ਵਰ, ਰਾਜੇਂਦਰ ਯਾਦਵ ਔਰ ਮਨੂੰ ਭੰਡਾਰੀ)
ਸੰਜਯ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ, 2006
5. ਸੁਭਾਸ਼ ਚੰਦਰ ਭੀਸ਼ਮ ਸਾਹਨੀ: ਸਾਹਿਤਯ ਔਰ ਜੀਵਨ ਦਰਸ਼ਨ
ਬਾਣੀ ਪ੍ਰਕਾਸ਼ਨ ,ਨਵੀਂ ਦਿੱਲੀ
6. ਹਰਦਿਆਲ ਹਿੰਦੀ ਕਹਾਨੀ ਪਰੰਪਰਾ ਔਰ ਪ੍ਰਗਤੀ
ਬਾਣੀ ਪ੍ਰਕਾਸ਼ਨ, ਨਈਂ ਦਿੱਲੀ, 2005
7. ਮਧੁਰੇਸ਼ ਹੋਨਾ ਭੀਸ਼ਮ ਸਾਹਨੀ ਕਾ
ਸਾਹਿਤਯ ਭੰਡਾਰ ,ਇਲਾਹਾਬਾਦ
8. ਸ਼ਯਾਮ ਕਸ਼ਯਪ ਭੀਸ਼ਮ ਸਾਹਨੀ
ਬਾਣੀ ਪ੍ਰਕਾਸ਼ਨ ,ਦਿੱਲੀ
9. ਦੁਆਰਕਾ ਪ੍ਰਸਾਦਿ ਸਕਸੈਨਾ ਹਿੰਦੀ ਕੇ ਸ਼੍ਰੇਸ਼ਠ ਉਪਨਿਆਸ ਔਰ ਉਪਨਿਆਸਕਾਰ
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11. ਰਾਜੇਸ਼ ਰਾਣੀ ਹਿੰਦੀ ਉਪਨਿਆਸੋਂ ਮੇਂ ਸਮਾਜਿਕ ਚੇਤਨਾ
ਕੇ. ਕੇ. ਪਬਲੀਕੇਸ਼ਨਜ਼, ਦਿੱਲੀ, 2009.
- 12ਰਾਮ ਵਿਨੋਯ ਸ਼ਰਮਾ ਭੀਸ਼ਮ ਸਾਹਨੀ ਕੇ ਸਾਹਿਤਯ ਸਰੋਕਾਰ
ਨਯੀ ਕਿਤਾਬ ਪ੍ਰਕਾਸ਼ਨ ,ਦਿੱਲੀ
- . 13ਵਿਸ਼ਵ ਨਾਥ ਤਿਵਾੜੀ ਅਧੁਨਿਕ ਹਿੰਦੀ ਕਵਿਤਾ
ਲੋਕ ਭਾਰਤੀ ਪ੍ਰਕਾਸ਼ਨ ,ਨਵੀਂ ਦਿੱਲੀ

Mapping Matrix of Course MA/PUN/2/DSC7

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	2	2	2	2	3	3
LO2	3	3	3	2	2	3	3	3
LO3	3	3	3	2	2	3	3	3
LO4	3	3	3	2	2	2	3	3
Average	3	3	2.75	2	2	2.5	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	2.75	3	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	2	2	2	2	3	3	3	2	3	3	3
LO2	3	3	3	2	2	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	3	3	3	3	3	3	3
LO4	3	3	3	2	2	2	3	3	3	3	3	3	3
Average	3	3	2.75	2	2	2.5	3	3	3	2.75	3	3	3

Punjabi Vich Anuvadt Urdu Sahit

MA/PUN/2/DSC8

ਪੇਪਰ ਪੰਦਰਵਾਂ

ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਉਰਦੂ ਸਾਹਿਤ

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਉਰਦੂ ਸਾਹਿਤ ਨਾਲ ਸੰਬੰਧਿਤ ਜਾਣ-ਪਛਾਣ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

1. ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਉਰਦੂ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ, ਇਸਦੇ ਝੁਕਾਵਾਂ ਅਤੇ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤਕਾਰਾਂ ਬਾਰੇ ਸੰਬੰਧਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
2. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਉਰਦੂ ਸਾਹਿਤ ਦੇ ਪ੍ਰਮੁੱਖ ਸਾਹਿਤਕਾਰਾਂ ਬਾਰੇ ਸੰਬੰਧਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
3. ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਉਰਦੂ ਸਾਹਿਤ ਰਾਹੀਂ ਵਿਚਾਰਾਂ ਵਿਚ ਵਾਧਾ ਹੋਵੇਗਾ।
4. ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦਿਤ ਉਰਦੂ ਸਾਹਿਤ ਦੇ ਮੁੱਖ ਸਰੋਕਾਰਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸਬੰਧਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਮੁਨੱਵਰ ਰਾਣਾ

ਮਾਂ

ਟੀ. ਐੱਨ. ਰਾਜ (ਸੰਪਾ.)

ਸਇੰਸ ਐਂਡ ਜਨਰਲ ਪਬਲਿਸ਼ਰਜ਼, ਚੰਡੀਗੜ੍ਹ, 2012

ਯੂਨਿਟ ਤੀਸਰਾ

ਸਆਦਤ ਹਸਨ ਮਟੋ

ਮਟੋ ਦੀਆਂ ਕਹਾਣੀਆਂ

ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ

ਯੂਨਿਟ ਚੌਥਾ

ਕ੍ਰਿਸ਼ਨ ਚੰਦਰ

ਜਦੋਂ ਖੇਤ ਜਾਗੇ

ਗੁਰਮੁਖ ਸਿੰਘ ਸਹਿਗਲ(ਅਨੁ.) ਸੰਗਮ ਪਬਲੀਕੇਸ਼ਨ, ਸਮਾਣ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

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2. Alok Bhalla Life and Works of Saadat Hasan Manto
IIAS, Shimla, 1997
3. Ehtesham Hussain Urdu Adab Ki Tankidi Tareekh
NCPUL, New Delhi
4. Jagdish Chandr Wadhawan Manto Naama
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The Urdu Short Stories of Saadat Hasan Manto
Centre for South & South East Asian Studies , University Of
California Berkley, 1979
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Adam Publishers and Distributors, 1990
8. T. Grahame Bailey A History of Urdu Literature
Oxford University Press, Pakistan, 2008

Mapping Matrix of Course MA/PUN/2/DSC8

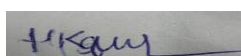
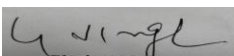


Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	2	2	2	2	3	3
LO2	3	3	3	2	2	3	3	3
LO3	3	3	3	2	2	3	3	3
LO4	3	3	3	2	2	2	3	3
Average	3	3	2.75	2	2	2.5	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	2.75	3	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	2	2	2	3	3	3	2	3	3	3
LO2	3	3	3	2	2	2	3	3	3	3	3	3	3
LO3	3	3	3	2	2	2	3	3	3	3	3	3	3
LO4	3	3	3	2	2	2	3	3	3	3	3	3	3
Average	3	3	2.75	2	2	2.5	3	3	3	2.75	3	3	3

(Natak Ate Rangmanch Da Hunar : Adhyan Ate Sikhilai)

MA/PUN/2/SEC1

ਪੇਪਰ - ਸੌਲਵਾਂ

ਨਾਟਕ ਅਤੇ ਰੰਗਮੰਚ ਦਾ ਹੁਨਰ : ਅਧਿਐਨ ਅਤੇ ਸਿਖਲਾਈ

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚੋਂ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਾਟਕ ਅਤੇ ਰੰਗਮੰਚ ਦੇ ਹੁਨਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਾਟਕ ਪੜ੍ਹਨ, ਨਾਟਕ ਖੇਡਣ ਅਤੇ ਇਸਦੀ ਪੇਕਾਰੀ ਲਈ ਸਹਾਇਕ ਵਿਉਂਤਕਾਰਾਂ ਬਾਰੇ ਵਿਸਤ੍ਰਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
2. ਵਿਦਿਆਰਥੀ ਨਾਟਕ ਲਈ ਸੰਵਾਦ ਲੇਖਣ ਦੀ ਗਹਿਨ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਗੇ।
3. ਵਿਦਿਆਰਥੀ ਨਾਟਕ ਦੀ ਮੰਚੀ ਮੁਹਾਰਤ ਹਾਸਲ ਕਰ ਸਕਣਗੇ।
4. ਵਿਦਿਆਰਥੀ ਨਾਟਕ ਅਤੇ ਰੰਗਮੰਚ ਦੇ ਹੁਨਰ ਵਿੱਚ ਵਿਵਹਾਰਕ ਮੁਹਾਰਤ ਹਾਸਲ ਕਰਨਗੇ।

ਯੂਨਿਟ ਪਹਿਲਾ

ਨਾਟਕ ਅਤੇ ਰੰਗਮੰਚ : ਸਿਧਾਂਤਕ ਪੱਖ
ਨਾਟਕ ਅਤੇ ਰੰਗਮੰਚ ਦਾ ਸਬੰਧ

ਯੂਨਿਟ ਦੂਜਾ

ਨਾਟ-ਵਿਧਾ ਦੀਆਂ ਰੰਗਮੰਚੀ ਸਮੱਸਿਆਵਾਂ
ਪਾਤਰ ਉਸਾਰੀ, ਅਦਾਕਾਰੀ ਹੁਨਰ ਅਤੇ ਰੀਹਰਸਲਾਂ
ਨਾਟ ਸਿਰਜਣ ਪ੍ਰਕ੍ਰਿਆ ਨੂੰ ਸਮਝਣਾ

ਯੂਨਿਟ ਤੀਜਾ

ਨਾਟਕ ਵਿਧਾ ਦੇ ਸਹਾਇਕ ਵਿਉਂਤਕਾਰ
ਨਾਟਕ ਪੇਸ਼ਕਾਰੀ ਵਿੱਚ ਸੰਗੀਤ ਦਾ ਰੋਲ ਅਤੇ ਮਹੱਤਵ
ਨਾਟਕ ਪੇਸ਼ਕਾਰੀ ਵਿੱਚ ਆਵਾਜ਼ ਵੇਰੀਏਸ਼ਨਜ਼ ਦਾ ਰੋਲ ਅਤੇ ਮਹੱਤਵ
ਨਾਟਕ ਪੇਸ਼ਕਾਰੀ ਵਿੱਚ ਅਦਾਵਾਂ ਦਾ ਰੋਲ ਅਤੇ ਮਹੱਤਵ
ਨਾਟਕ ਪੇਸ਼ਕਾਰੀ ਵਿੱਚ ਵੇਸ-ਭੂਸ਼ਾ ਦਾ ਮਹੱਤਵ

ਨਾਟਕ ਪੇਸ਼ਕਾਰੀ ਵਿੱਚ ਰੋਸ਼ਨੀ ਅਤੇ ਮੰਚ ਸੱਜਾ ਦਾ ਰੋਲ ਅਤੇ ਮਹੱਤਵ

ਯੂਨਿਟ ਚੌਥਾ

ਮੰਚੀ ਅਭਿਆਸ

ਕਹਾਣੀ ਅਤੇ ਹੋਰ ਸਾਹਿਤਕ ਪਾਠਾਂ ਦਾ ਨਾਟਕੀ ਰੂਪਾਂਤਰਣ

ਲੇਖਣ ਹੁਨਰ-ਸਕਰਿਪਟ ਅਤੇ ਸੰਵਾਦ ਤਿਆਰ ਕਰਨਾ

ਅਭਿਨੈ ਹੁਨਰ ਨੂੰ ਸਿੱਖਣਾ

ਵੇਸ-ਭੂਸ਼ਾ, ਮੇਕਅਪ ਕਰਨ ਦੇ ਹੁਨਰ ਨੂੰ ਸਿੱਖਣਾ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

- 1 ਪਾਲੀ ਭੁਪਿੰਦਰ, ਨਾਟਕ ਅਤੇ ਨਾਟ ਚਿੰਤਨ, ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ
- 2 ਕਿਰਪਾਲ ਕਜ਼ਾਕ, ਰੰਗਮੰਚ ਚਿੰਤਨ, ਗਰੇਸੀਅਸ ਬੁੱਕਸ, ਪਟਿਆਲਾ
- 3 ਨਵਨਿੰਦਰਾ ਬਹਿਲ, ਰੰਗਮੰਚ ਅਤੇ ਟੈਲੀਵਿਜ਼ਨ ਨਾਟਕ, ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ
- 4 ਜਸਵਿੰਦਰ ਕੌਰ ਮਾਂਗਟ, ਰੰਗਮੰਚ ਦੇ ਬੁਨਿਆਦੀ ਨਿਯਮ, ਪਬਲੀਕੇਸ਼ਨ ਬਿਊਰੋ, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
- 5 ਸਤੀਸ਼ ਕੁਮਾਰ ਵਰਮਾ, ਪੰਜਾਬੀ ਰੰਗਮੰਚ ਦੀ ਭੂਮਿਕਾ, ਬਿਸ਼ਨ ਚੰਦ ਐਂਡ ਸੰਜ, ਦਿੱਲੀ

Mapping Matrix of Course MA/PUN/2/SEC1

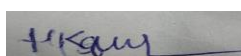
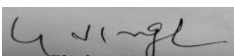


Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4
LO1	3	3	3	3
LO2	3	3	3	3
LO3	3	3	3	3
LO4	3	3	3	2
Average	3	3	3	2.75

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	SO 5
LO1	3	3	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	3	2
Average	3	3	3	2	3	2	3	3	3	3	3	3	2.75

Sirjnatmak Lekhan : Adhyan Ate Sikhilai

MA/PUN/2/SEC2

ਪੇਪਰ - ਸਤਾਰਵਾਂ

ਸਿਰਜਣਾਤਮਕ ਲੇਖਣ : ਅਧਿਐਨ ਅਤੇ ਸਿਖਲਾਈ

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪੇਪਰ ਸੈੱਟਰ ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇਗਾ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਟਾਪਿਕਾਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਿਰਜਣਾਤਮਕ ਲੇਖਣ ਦੇ ਹੁਨਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Course Outcomes)

1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਜਨ-ਸੰਚਾਰ ਦੇ ਸਿਧਾਂਤਕ ਅਤੇ ਇਤਿਹਾਸਕ ਪਹਿਲੂਆਂ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
2. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਜਨ-ਸੰਚਾਰ ਦੇ ਪ੍ਰਿੰਟ ਅਤੇ ਇਲੈਕਟ੍ਰੋਨਿਕ ਮੀਡੀਆ ਦੇ ਹੁਨਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
3. ਵਿਦਿਆਰਥੀ ਸਿਰਜਣਾਤਮਕ ਲੇਖਣ ਦੇ ਹੁਨਰ ਵਿੱਚ ਵਿਵਹਾਰਕ ਅਤੇ ਪ੍ਰੋਫੈਸ਼ਨਲ ਤੌਰ 'ਤੇ ਮੁਹਾਰਤ ਹਾਸਲ ਕਰਨਗੇ।
4. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਖਬਰਾਂ ਦੇ ਸੰਪਾਦਨ, ਫੀਚਰ ਲੇਖਣ, ਇੰਟਰਵਿਊ ਕਲਾ ਅਤੇ ਵਿਗਿਆਪਨ ਲੇਖਣ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੋਵੇਗਾ।

ਯੂਨਿਟ ਪਹਿਲਾ

- ੳ ਸਿਰਜਣਾਤਮਕ ਲੇਖਣ
ਅ ਸਿਰਜਣਾ ਲਈ ਕੁਝ ਜ਼ਰੂਰੀ ਨੁਕਤੇ
ੲ ਸਾਹਿਤ ਅਤੇ ਸੰਚਾਰ

ਯੂਨਿਟ ਦੂਜਾ

- ੳ ਜਨ-ਸੰਚਾਰ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ
 ਅ ਸਿਰਜਣਾਤਮਕਤਾ ਅਤੇ ਮੀਡੀਆ ਲੇਖਣ- ਕਵਿਤਾ, ਕਹਾਣੀ ਅਤੇ ਨਾਟਕ
 ਏ ਸਿਰਜਣਾਤਮਕ ਲੇਖਣ ਦਾ ਉਦੇਸ਼ ਅਤੇ ਮਹੱਤਵ

ਯੂਨਿਟ ਤੀਜਾ

- ੳ ਜਨ-ਸੰਚਾਰ ਲਈ ਸਿਰਜਣਾ : ਪ੍ਰਿੰਟ ਮੀਡੀਆ
 ਅ ਖਬਰਾਂ ਲੇਖਣ ਦੀ ਕਲਾ ਸਿੱਖਣਾ, ਖਬਰਾਂ ਦਾ ਸੰਪਾਦਨ, ਐਂਕਰਿੰਗ ਦੀ ਕਲਾ ਸਿੱਖਣਾ
 ਏ ਫੀਚਰ ਲੇਖਣ, ਇੰਟਰਵਿਊ ਲੇਖਣ, ਵਿਗਿਆਪਨ ਲੇਖਣ, ਬੱਚਿਆਂ ਲਈ ਲੇਖਣ

ਯੂਨਿਟ ਚੌਥਾ

- ੳ ਜਨ-ਸੰਚਾਰ ਲਈ ਸਿਰਜਣਾ : ਇਲੈਕਟ੍ਰੋਨਿਕ ਮੀਡੀਆ
 ਅ ਇੰਟਰਨੈੱਟ ਦਾ ਪ੍ਰਯੋਗ ਸਿੱਖਣਾ
 ਏ ਇੰਟਰਵਿਊ ਕਰਨ ਦੀ ਕਲਾ ਸਿੱਖਣਾ
 ਸ ਵਿਗਿਆਪਨ ਤਿਆਰ ਕਰਨਾ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਜਗਜੀਤ ਕੌਰ ਅਤੇ ਮਨਜੀਤ ਸਿੰਘ (ਸੰਪਾ.), ਸਿਰਜਣਾਤਮਕ ਲੇਖਣ ਅਤੇ ਜਨ-ਸੰਚਾਰ ਮਾਧਿਅਮ, ਮਨਪ੍ਰੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ
2. ਰਵੇਲ ਸਿੰਘ, ਮੀਡੀਆ ਵਿਹਾਰਕ ਅਧਿਐਨ, ਗਰੇਸੀਅਸ ਬੁੱਕਸ, ਪਟਿਆਲਾ
3. ਪ੍ਰਿਥਵੀ ਰਾਜ ਥਾਪਰ, ਸੰਚਾਰ ਤਕਨੀਕ ਅਤੇ ਮਲਟੀਮੀਡੀਆ, ਮਨਪ੍ਰੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	2	2	2	2	3	3
LO2	3	3	3	2	2	3	3	3
LO3	3	3	3	2	2	3	3	3
LO4	3	3	3	2	2	2	3	3
Average	3	3	2.75	2	2	2.5	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	2.75	3	3	3

Table 4: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	2	2	2	3	3	3	2	3	3	3
LO2	3	3	3	2	2	2	3	3	3	3	3	3	3
LO3	3	3	3	2	2	2	3	3	3	3	3	3	3
LO4	3	3	3	2	2	2	3	3	3	3	3	3	3
Average	3	3	2.75	2	2	2.5	3	3	3	2.75	3	3	3

Punjabi Bhasha ate viakaran: Mudhli Jan-Pchhan

MA/PUN/9/OEC1

ਪੇਪਰ ਅਠਾਰਵਾਂ (ਓਪਨ ਇਲੈਕਟਿਵ)

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਵਿਆਕਰਨ: ਮੁੱਢਲੀ ਜਾਣ-ਪਛਾਣ

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਜਿਨ੍ਹਾਂ ਵਿੱਚੋਂ ਇੱਕ ਕਰਨਾ ਹੋਵੇਗਾ।
4. ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਦੂਸਰੇ ਅਨੁਸ਼ਾਸਨਾਂ ਨਾਲ ਸਬੰਧਤ ਹੋਣ ਕਾਰਨ ਸਵਾਲ ਸਬੰਧ ਅਤੇ ਸਰਲ ਪੁੱਛੇ।
5. ਯੂਨਿਟ ਤੀਸਰਾ ਵਿਚ ਘੱਟੋ-ਘੱਟ 15-15 ਸਬਦ ਪੁੱਛੇ ਜਾਣਗੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਮੁੱਢਲਾ ਗਿਆਨ ਪ੍ਰਦਾਨ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- ਪੰਜਾਬੀ ਸ਼ਬਦ ਰਚਨਾ, ਲਗਾਂ-ਮਾਤਰਾ ਅਤੇ ਸ਼ਬਦ ਜੋੜ ਨਿਯਮਾਂ ਦਾ ਗਿਆਨ ਹਾਸਿਲ ਹੋਵੇਗਾ।
- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਦੀਆਂ ਵਿਆਕਰਨਿਕ ਸ਼੍ਰੇਣੀਆਂ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੋਵੇਗਾ।
- ਪੰਜਾਬੀ ਵਿੱਚ ਪੱਤਰ ਲੇਖਣ ਦੀ ਜਾਣਕਾਰੀ ਅਤੇ ਪੱਤਰ ਲੇਖਣ ਵਿੱਚ ਮੁਹਾਰਤ ਹਾਸਿਲ ਹੋਵੇਗੀ।
- ਪੰਜਾਬੀ ਵਿਚ ਵਿਦਿਆਰਥੀ ਨੂੰ ਸੁੱਧ ਪੜ੍ਹਣ ਅਤੇ ਲੇਖਣ ਦੀ ਮੁਹਾਰਤ ਹਾਸਿਲ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ : ਧੁਨੀ/ ਅੱਖਰ ਬੋਧ

ਅੱਖਰਾਂ ਵਰਣਾਂ ਦੀ ਪਛਾਣ, ਅੱਖਰ ਉਚਾਰਣ, ਲਗਾਂ ਮਾਤਰਾਵਾਂ, ਲਗਾਖਰ, ਸਵਰ-ਵਿਅੰਜਨ, ਸ਼ਬਦ ਜੋੜ ਨਿਯਮ,

ਯੂਨਿਟ ਦੂਸਰਾ : ਵਿਆਕਰਣਕ ਸ਼੍ਰੇਣੀਆਂ

ਵਿਆਕਰਨਕ ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ-ਨਾਂਵ, ਪੜਨਾਂਵ, ਵਿਸ਼ੇਸ਼ਣ, ਕਿਰਿਆ ਵਿਸ਼ੇਸ਼ਣ, ਸਬੰਧਕ, ਯੋਜਕ, ਵਿਸਮਿਕ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਭੇਦ

ਯੂਨਿਟ ਤੀਸਰਾ : ਅਰਥ ਬੋਧ

ਮੁਹਾਵਰੇ, ਅਖਾਣ ,ਸਮਾਨਾਰਥਕ ਸ਼ਬਦ, ਬਹੁਅਰਥਕ ਸ਼ਬਦ, ਵਿਰੋਧਾਰਥਕ ਸ਼ਬਦ, ਬਹੁਤੇ ਸ਼ਬਦਾਂ ਦੀ ਥਾਂ ਇੱਕ ਸ਼ਬਦ

ਯੂਨਿਟ ਚੌਥਾ :

ਪੱਤਰ ਲੇਖਣ ਅਤੇ ਪਦ/ ਪੈਰਾ ਰਚਨ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਸ. ਸ. ਖਹਿਰਾ ਪੰਜਾਬੀ ਭਾਸ਼ਾ : ਵਿਆਕਰਣ ਅਤੇ ਬਣਤਰ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
2. ਹਰਕੀਰਤ ਸਿੰਘ ਪੰਜਾਬੀ ਸ਼ਬਦ ਰੂਪ ਅਤੇ ਸ਼ਬਦ ਜੋੜ ਕੋਸ਼
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
3. ਹਰਬੰਸ ਸਿੰਘ ਧੀਮਾਨ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਵਿਆਕਰਣ
ਗਗਨ ਪ੍ਰਕਾਸ਼ਨ, ਰਾਜਪੁਰਾ, ਪਟਿਆਲਾ, 2006
- 4 Gurinder Singh Mann An Introduction to Punjabi
Punjabi University, Patiala

Mapping Matrix for the Course MA/PUN/9/OEC1

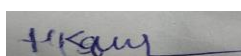
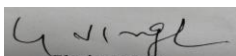


Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	2	3	3	3
LO2	3	3	3	2	2	3	3	3
LO3	3	3	3	2	2	3	3	3
LO4	3	3	3	2	2	3	3	3
Average	3	3	3	2	2	3	3	3

Table 2: CO-POS Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	2	3	3	3	3	3	3	3	3
LO2	3	3	3	2	2	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	3	3	3	3	3	3	3
LO4	3	3	3	2	2	3	3	3	3	3	3	3	3
Average	3	3	3	2	2	3	3	3	3	3	3	3	3

Punjabi sahit da itihās: sankhep jan-pchhan

MA/PUN/9/OEC2

ਪੇਪਰ ਉੱਨੀਵਾਂ (ਓਪਨ ਇਲੈਟਿਕ)

ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ : ਸੰਖੇਪ ਜਾਣ-ਪਛਾਣ

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
4. ਪੇਪਰ ਸੈਟਰ ਨੂੰ ਹਦਾਇਤ ਹੈ ਕਿ ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਦੂਸਰੇ ਅਨੁਸ਼ਾਸਨਾਂ ਨਾਲ ਸੰਬੰਧਤ ਹੋਣ ਕਾਰਨ ਸਵਾਲ ਸੰਖੇਪ ਅਤੇ ਸਰਲ ਪੁੱਛੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਨਾਲ ਜਾਣ-ਪਛਾਣ ਕਰਵਾਉਣਾ।
- ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਵਿੱਚ ਰੁਚੀ ਵਿਕਸਿਤ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Course Outcomes)

1. ਸਮੁੱਚੀ ਪੰਜਾਬੀ ਸਾਹਿਤਕ ਪਰੰਪਰਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
2. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤਕ ਵੰਨਗੀਆਂ ਅਤੇ ਧਾਰਾਵਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
3. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮੱਧਕਾਲ ਅਤੇ ਆਧੁਨਿਕ ਸਾਹਿਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
4. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਪਰੰਪਰਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਆਦਿ ਕਾਲ (ਨਾਥ ਜੋਰੀਆਂ ਦਾ ਸਾਹਿਤ, ਲੋਕ ਵਾਰਾਂ, ਸੂਫੀ ਕਾਵਿ ਧਾਰਾ)

ਯੂਨਿਟ ਦੂਸਰਾ :

ਮੱਧ ਕਾਲ (ਗੁਰਮਤਿ, ਕਿੱਸਾ, ਵਾਰ ਸਾਹਿਤ) ਸੰਖੇਪ ਜਾਣਕਾਰੀ।

ਯੂਨਿਟ ਤੀਜਾ

ਆਧੁਨਿਕ ਸਾਹਿਤ (ਕਵਿਤਾ, ਨਾਵਲ, ਕਹਾਣੀ)

ਯੂਨਿਟ ਚੌਥਾ

ਆਧੁਨਿਕ ਸਾਹਿਤ (ਨਾਟਕ ਇਕਾਂਗੀ ਅਤੇ ਵਾਰਤਕ)

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਅਤਰ ਸਿੰਘ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (ਭਾਗ ਪਹਿਲਾ)
ਭਾਸ਼ਾ ਵਿਭਾਗ ਪੰਜਾਬ, ਪਟਿਆਲਾ, 1971
2. ਕਿਰਪਾਲ ਸਿੰਘ ਕਸੇਲ, ਗੋਬਿੰਦ ਸਿੰਘ ਲਾਂਬਾ ਅਤੇ ਪਰਮਿੰਦਰ ਸਿੰਘ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਉਤਪਤੀ ਤੇ ਵਿਕਾਸ
ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ, 1974
3. ਜਸਵਿੰਦਰ ਸਿੰਘ ਅਤੇ ਮਾਨ ਸਿੰਘ ਢੀਂਡਸਾ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (ਆਧੁਨਿਕ ਕਾਲ)
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
4. ਜੀਤ ਸਿੰਘ ਸੀਤਲ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਆਲੋਚਨਾਤਮਕ ਇਤਿਹਾਸ
ਪੈਪਸੂ ਬੁੱਕ ਡਿੱਪੂ, ਪਟਿਆਲਾ, 1976
5. ਧਰਮਪਾਲ ਸਿੰਗਲ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ

Mapping Matrix for the Course MA/PUN/9/OEC2

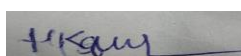
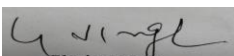


Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	2	3	3	3
LO2	3	3	3	2	2	3	3	3
LO3	3	3	3	2	2	3	3	3
LO4	3	3	3	2	2	3	3	3
Average	3	3	3	2	2	3	3	3

Table 2: CO-POS Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	2	3	3	3	3	3	3	3	3
LO2	3	3	3	2	2	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	3	3	3	3	3	3	3
LO4	3	3	3	2	2	3	3	3	3	3	3	3	3
Average	3	3	3	2	2	3	3	3	3	3	3	3	3

**Semester Third
Paper Twentieth
Aadhunik Punjabi Kavita (1960 tak)
MA/PUN/3/CC8**

**ਪੇਪਰ ਵੀਹਵਾਂ
ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ (1960 ਤੱਕ)**

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ 5 ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।
4. ਪੇਪਰ ਸੈੱਟਰ ਨੂੰ ਹਦਾਇਤ ਹੈ ਕਿ ਵਿਦਿਆਰਥੀ ਹੋਰ ਅਨੁਸ਼ਾਸਨ ਨਾਲ ਸੰਬੰਧਤ ਹੋਣ ਕਰਕੇ ਸਵਾਲ ਸਰਲ ਤੇ ਸੰਖੇਪ ਪੁੱਛੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਧੁਨਿਕਤਾ ਅਤੇ ਆਧੁਨਿਕ ਬੋਧ ਤੋਂ ਜਾਣੂ ਕਰਾਉਂਦੇ ਹੋਏ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੀ ਵਿਸਥਾਰਤ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੀ ਇਤਿਹਾਸਕ ਰੂਪ-ਰੇਖਾ ਉਲੀਕਦੇ ਹੋ ਆਧੁਨਿਕ ਕਵਿਤਾ ਦੇ ਪ੍ਰਮੁੱਖ ਝੁਕਾਵਾਂ/ ਪ੍ਰਵਿਰਤੀਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
2. ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਵਿਧਾਗਤ ਸਰੋਕਾਰਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
3. ਵੱਖ-ਵੱਖ ਕਾਵਿ ਸੰਗ੍ਰਿਹਾਂ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਕਾਵਿ ਅਧਿਐਨ ਦੀ ਸੂਝ ਅਤੇ ਸਮਝ ਪੈਦਾ ਹੋਵੇਗੀ।
4. ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਕਵਿਤਾ ਨੂੰ ਪੜ੍ਹਨ ਤੇ ਸਮਝਣ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ

ਪਾਠ ਰੂਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸੰਬੰਧਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਭਾਈ ਵੀਰ ਸਿੰਘ ਮੇਰੇ ਸਾਈਆਂ ਜੀਓ
ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ

ਯੂਨਿਟ ਤੀਸਰਾ

ਪੂਰਨ ਸਿੰਘ ਖੁੱਲ੍ਹੇ ਮੈਦਾਨ
ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ

ਯੂਨਿਟ ਚੌਥਾ

ਬਾਵਾ ਬਲਵੰਤ ਬੰਦਰਗਾਹ
ਨਵਯੁੱਗ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਅੰਮ੍ਰਿਤਪਾਲ ਕੌਰ(ਸੰਪਾ.) ਵੀਹਵੀਂ ਸਦੀ ਦੀ ਪੰਜਾਬੀ ਕਵਿਤਾ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2005
2. ਅਮਰੀਕ ਸਿੰਘ ਪੂਨੀ ਪੂਰਨ ਸਿੰਘ : ਕਾਵਿ ਅਧਿਐਨ
ਨਵ ਚਿੰਤਨ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ, 2006
3. ਐੱਸ. ਤਰਸੇਮ ਬਾਵਾ ਬਲਵੰਤ : ਜੀਵਨ ਸੰਵਾਦ ਤੇ ਸਮੀਖਿਆ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2007
4. ਸਤਿੰਦਰ ਸਿੰਘ ਭਾਈ ਵੀਰ ਸਿੰਘ : ਜੀਵਨ ਤੇ ਰਚਨਾ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
5. ਸੁਖਦੇਵ ਸਿੰਘ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਾਵਿ ਦਾ ਕਾਵਿ ਸ਼ਾਸਤਰ
ਆਰਸੀ ਪਬਲਿਸ਼ਰਜ਼, ਦਿੱਲੀ
6. -ਉਹੀ- ਕਾਵਿ ਸਰੋਕਾਰ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2006
7. ਸਤਿੰਦਰ ਸਿੰਘ ਭਾਈ ਵੀਰ ਸਿੰਘ : ਜੀਵਨ ਤੇ ਰਚਨਾ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
8. -ਉਹੀ- ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਾਵਿ ਰੂਪ ਅਧਿਐਨ
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ
9. ਜਸਵਿੰਦਰ ਸਿੰਘ ਨਵੀਂ ਪੰਜਾਬੀ ਕਵਿਤਾ ਪਛਾਣ ਚਿੰਨ੍ਹ
ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ
10. ਬਲਦੇਵ ਸਿੰਘ ਧਾਲੀਵਾਲ ਭਾਈ ਵੀਰ ਸਿੰਘ ਦੀ ਕਾਵਿ-ਦ੍ਰਿਸ਼ਟੀ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ
11. ਮੋਹਨਜੀਤ ਸਿੰਘ ਅਤੇ ਸਮਕਾਲੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਕਾਵਿ ਸ਼ਾਸਤਰ
ਰਵੇਲ ਸਿੰਘ (ਸੰਪਾ.) ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ, 2002
12. ਰਤਨ ਸਿੰਘ ਜੱਗੀ ਖੋਜ ਪਤ੍ਰਿਕਾ (ਆਧੁਨਿਕ ਕਾਵਿ ਅੰਕ) ਅੰਕ 22
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1998
13. ਰਾਜਿੰਦਰ ਸਿੰਘ ਭੱਟੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਾਵਿ ਸੰਵੇਦਨਾ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ
14. -ਉਹੀ- ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਾਵਿ ਦਾ ਸੁਹਜ ਸ਼ਾਸਤਰੀ ਪਰਿਪੇਖ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ
15. ਰਾਜਿੰਦਰ ਪਾਲ ਸਿੰਘ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਇਤਿਹਾਸ
ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ, 2006

Table 1: CO-PO Matrix for the Course Mapping Matrix of Course MA/PUN/3/CC8

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.5	3	2.5	2.75	2.25	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PS O 1	PS O 2	PSO 3	PSO 4	PS O5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.5	2.75	2.25	3	3	3	3	2.25	3	3

Punjabi Natak
MA/PUN/3/CC9
ਪੇਪਰ ਇੱਕੀਵਾਂ
ਪੰਜਾਬੀ ਨਾਟਕ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ 5 ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਾਟਕ ਅਤੇ ਇਕਾਂਗੀ ਦੇ ਸਿਧਾਂਤਕ ਪੱਖ ਤੋਂ ਜਾਣੂ ਕਰਾਉਂਦੇ ਹੋਏ ਪੰਜਾਬੀ ਨਾਟਕ ਅਤੇ ਇਕਾਂਗੀ ਦੇ ਇਤਿਹਾਸ ਅਤੇ ਝੁਕਾਵਾਂ ਅਤੇ ਪੰਜਾਬੀ ਨਾਟਕ ਅਤੇ ਇਕਾਂਗੀ ਬਾਰੇ ਸੂਝ ਵਿਕਸਿਤ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- 1 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਨਾਟਕ ਦੇ ਪ੍ਰਮੁੱਖ ਝੁਕਾਵਾਂ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 2 ਵੱਖ-ਵੱਖ ਨਾਟਕਕਾਰਾਂ ਦੀਆਂ ਨਾਟ ਰਚਨਾਵਾਂ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਨਾਟ ਅਧਿਐਨ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।
- 3 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਨਾਟਕ ਦੀਆਂ ਪ੍ਰਮੁੱਖ ਪ੍ਰਵਿਰਤੀਆਂ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 4 ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਨਾਟਕ ਨੂੰ ਪੜ੍ਹਨ ਅਤੇ ਖੇਡਣ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸਬੰਧਿਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਈਸ਼ਵਰ ਚੰਦਰ ਨੰਦਾ ਸੁਭੱਦਰਾ
ਖਾਲਸਾ ਸਮਾਚਾਰ, ਅੰਮ੍ਰਿਤਸਰ

ਯੂਨਿਟ ਤੀਸਰਾ

ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ ਵਾਰਸ
ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ

ਯੂਨਿਟ ਚੌਥਾ

ਵਰਿਆਮ ਮਸਤ

ਰਿਸ਼ਤੇ

ਸਿਲਾਲੇਖ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ, 2013

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਅਮਰਜੀਤ ਸਿੰਘ ਪੰਜ ਨਾਟਕਕਾਰ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ
2. -ਉਹੀ- ਸੇਖੋਂ ਦੇ ਇਤਿਹਾਸਕ ਅਤੇ ਮਿਥਿਹਾਸਕ ਨਾਟਕ
ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ
3. ਸਤੀਸ਼ ਕੁਮਾਰ ਵਰਮਾ ਪੰਜਾਬੀ ਨਾਟਕ ਦਾ ਇਤਿਹਾਸ
ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ
4. -ਉਹੀ- ਪੰਜਾਬੀ ਨਾਟ ਚਿੰਤਨਜੈਨ ਸੰਨੜ ਪ੍ਰਕਾਸ਼ਨ, ਸਰਹਿੰਦ, 1989
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Table 1: CO-PO Matrix for the Course Mapping Matrix of Course MA/PUN/3/CC9

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.5	3	2.5	2.75	2.25	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.5	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PS O 1	PS O 2	PSO 3	PSO 4	PS O 5
LO1	3	3	3	3	3	2	3	3	3	3	3	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.5	2.75	2.25	3	3	3	3	2.5	3	3

Sabhyachar Ate Punjabi Sabhyachar

MA/PUN/3/CC10

ਪੇਪਰ ਬਾਈਵਾਂ

ਸਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ 5 ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਟਾਪਿਕਾਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਭਿਆਚਾਰ, ਸਭਿਆਚਾਰ ਵਿਗਿਆਨ ਦੇ ਸੰਕਲਪਾਂ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੀ ਵਿਸਤ੍ਰਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

1. ਸਭਿਆਚਾਰ ਦੇ ਸੁਭਾਅ, ਪ੍ਰਮੁੱਖ ਪੱਖਾਂ ਅਤੇ ਅੰਗਾਂ, ਪਰਿਵਰਤਨ ਆਧਾਰਾਂ, ਨੇਮਾਂ ਅਤੇ ਮੂਲ ਸੋਮਿਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
2. ਵਿਦਿਆਰਥੀ ਸਭਿਆਚਾਰ ਦੇ ਬਾਕੀ ਅਨੁਸ਼ਾਸਨਾਂ ਨਾਲ ਸੰਬੰਧਤ ਸਥਾਪਿਤ ਅੰਤਰ-ਅਨੁਸ਼ਾਸਨੀ ਸਮਝ ਬਣਾਉਣ ਦੇ ਕਾਬਲ ਹੋਣਗੇ।
3. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਵਿਲੱਖਣ ਅਤੇ ਨਿਵੇਕਲੇ ਸਰੂਪ ਬਾਰੇ ਵਿਸਤ੍ਰਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
4. ਵਿਦਿਆਰਥੀ ਵਰਤਮਾਨ ਸਮੇਂ ਵਿੱਚ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਨੂੰ ਦਰਪੇਸ਼ ਚੁਣੌਤੀਆਂ ਬਾਰੇ ਗਿਆਨ ਹਾਸਿਲ ਕਰਨਗੇ।

ਯੂਨਿਟ ਪਹਿਲਾ

(ੳ) ਸਭਿਆਚਾਰ : ਸਿਧਾਂਤਕ ਪਰਿਪੇਖ (ਪਰਿਭਾਸ਼ਾ, ਲੱਛਣ, ਪ੍ਰਭਾਵ ਆਦਿ)

(ਅ) ਸਭਿਆਚਾਰ ਤੇ ਸਾਹਿਤ, ਸਭਿਆਚਾਰ ਤੇ ਭਾਸ਼ਾ, ਸਭਿਆਚਾਰ ਤੇ ਸਾਹਿਤ ਅਧਿਐਨ

(ੲ) ਸਭਿਆਚਾਰ ਅਧਿਐਨ ਦੀਆਂ ਵਿਭਿੰਨ ਦ੍ਰਿਸ਼ਟੀਆਂ

ਯੂਨਿਟ ਦੂਸਰਾ

(ੳ) ਸਭਿਆਚਾਰ ਦਾ ਭੂਗੋਲ, ਸਭਿਅਤਾ, ਇਤਿਹਾਸ, ਮਨੋਵਿਗਿਆਨ, ਆਰਥਿਕਤਾ, ਧਰਮ, ਰਾਜਨੀਤੀ ਆਦਿ ਨਾਲ ਸੰਬੰਧ।

(ਅ) ਵਿਸ਼ਵ ਦੇ ਪ੍ਰਸਿੱਧ ਸਭਿਆਚਾਰ ਸ਼ਾਸਤਰੀਆਂ ਦਾ ਯੋਗਦਾਨ (ਰੇਮੰਡ ਵਿਲੀਅਮ, ਗ੍ਰਾਮਸੀ, ਰੇਮੰਡ ਵਿਲੀਅਮ, ਬੈਂਦਰੀਲਾਰਦ ਦੇ ਵਿਸ਼ੇਸ਼ ਪ੍ਰਸੰਗ ਵਿੱਚ)

ਯੂਨਿਟ ਤੀਸਰਾ

- (ੳ) ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ : ਭੂਗੋਲ, ਇਤਿਹਾਸ ਅਤੇ ਆਰਥਿਕ ਪਰਿਪੇਖ
 (ਅ) ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਮੂਲ ਸੋਮੇ
 (ੲ) ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਮੂਲ ਪਛਾਣ ਚਿੰਨ੍ਹ

ਯੂਨਿਟ ਚੌਥਾ

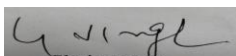
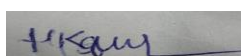
- (ੳ) ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ, ਸਿਆਸਤ ਅਤੇ ਸੰਪਰਦਾਇਕਤਾ
 (ਅ) ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦਾ ਕੌਮੀ ਪ੍ਰਸੰਗ
 (ੲ) ਉੱਤਰ ਆਧੁਨਿਕ ਸਥਿਤੀ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਸਾਹਮਣੇ ਚੁਣੌਤੀਆਂ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

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3. -ਉਹੀ- ਸਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਪੰਜਾਬੀ ਰਾਈਟਰਸਜ਼. ਕੋਆਪਰੇਟਿਵ ਸੁਸਾਇਟੀ, ਲੁਧਿਆਣਾ
4. ਜਸਵਿੰਦਰ ਸਿੰਘ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ : ਪਛਾਣ ਚਿੰਨ੍ਹ ਗਰੇਸੀਅਸ ਬੁੱਕਸ, ਪਟਿਆਲਾ, 2012
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9. ਧਨਵੰਤ ਕੌਰ (ਸੰਪਾ.) ਪੰਜਾਬੀਅਤ : ਸੰਕਲਪ ਅਤੇ ਸਰੂਪ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
10. ਭੁਪਿੰਦਰ ਸਿੰਘ ਖਹਿਰਾ ਲੋਕਧਾਰਾ ਭਾਸ਼ਾ ਅਤੇ ਸਭਿਆਚਾਰ ਪੈਪਸੂ ਬੁੱਕ ਡਿਪੂ, ਪਟਿਆਲਾ, 1998
11. ਰਵਿੰਦਰ ਭੱਠਲ ਅਤੇ ਲਾਭ ਸਿੰਘ ਖੀਵਾ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਅਤੇ ਲੋਕਧਾਰਾ ਪੰਜਾਬੀ ਸਾਹਿਤ ਅਕਾਦਮੀ, ਲੁਧਿਆਣਾ, 2003
12. Sir Edward Burnett Tylor Primitive Culture Henry Holt and Co. New York, 1874

Mapping Matrix of Course MA/PUN/3/CC10

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	2	3	3	3
LO2	3	2	3	3	3	3	3	3
LO3	3	3	3	2	2	2	2	3
LO4	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.5	2.5	2.75	2.75	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3: CO-PO-PSO Matrix for the Course MA/PUN/3/CC10

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PS O 1	PS O 2	PSO 3	PSO 4	PS O 5
LO1	3	3	3	3	2	3	3	3	3	3	3	3	3
LO2	3	3	3	3	3	3	3	3	3	3	3	3	3
LO3	3	2	3	2	2	2	2	3	3	3	3	3	3
LO4	3	2	3	2	3	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.5	2.5	2.75	2.75	3	3	3	3	3	3

MA/PUN/3/CC11
ਪੇਪਰ ਤੇਈਵਾਂ
ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ, ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਅਤੇ ਭਾਸ਼ਾ ਸ਼ਾਸਤਰ ਦੇ ਸੰਕਲਪ ਤੋਂ ਜਾਣੂ ਕਰਾਉਂਦੇ ਹੋਏ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਇਸ ਦੀਆਂ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- 1 ਵਿਸ਼ਵ ਭਾਸ਼ਾ ਪਰਿਵਾਰਾਂ ਦੇ ਪਰਿਪੇਖ ਵਿੱਚ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਕਾਸ, ਵਿਕਾਸੇ ਇਸਦੇ ਪ੍ਰਮੁੱਖ ਇਤਿਹਾਸਿਕ ਪੜਾਵਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 2 ਪੰਜਾਬੀ ਦੀਆਂ ਉਪ ਭਾਸ਼ਾਵਾਂ ਬਾਰੇ ਵਿਸਤ੍ਰਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 3 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਸ਼ਾਸਤਰ ਅਤੇ ਵਿਗਿਆਨੀਆਂ ਬਾਰੇ ਸੂਝ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 4 ਪੰਜਾਬ ਸਰਕਾਰ ਦੀ ਭਾਸ਼ਾ ਨੀਤੀ ਅਤੇ ਪੰਜਾਬੀ ਦੇ ਵਿਕਾਸ ਲਈ ਪ੍ਰਮੁੱਖ ਭਾਸ਼ਾ ਵਿਕਾਸ ਅਦਾਰਿਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ

- (ੳ) ਭਾਸ਼ਾ ਅਤੇ ਭਾਸ਼ਾ ਵਿਗਿਆਨ
- (ਅ) ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਅਤੇ ਭਾਸ਼ਾ ਸ਼ਾਸਤਰ
- (ੲ) ਭਾਸ਼ਾ ਸਾਹਿਤ, ਸਮਾਜ ਅਤੇ ਸਭਿਆਚਾਰ

ਯੂਨਿਟ ਦੂਸਰਾ

- (ੳ) ਵਿਸ਼ਵ ਭਾਸ਼ਾ ਪਰਿਵਾਰ
- (ਅ) ਆਧੁਨਿਕ ਭਾਰਤੀ ਆਰੀਆ ਭਾਸ਼ਾਵਾਂ
- (ੲ) ਐਮ ਕੇ ਹੈਲੀਡੇ, ਸਸਿਓਰ ਅਤੇ ਨੌਮ ਚਾਮਸਕੀ ਦਾ ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਦੇ ਖੇਤਰ ਵਿੱਚ ਯੋਗਦਾਨ

ਯੂਨਿਟ ਤੀਸਰਾ

- (ੳ) ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ
- (ਅ) ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ
- (ੲ) ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਉੱਪਰ ਪਏ ਪ੍ਰਭਾਵ
- (ਸ) ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਵਿਕਾਸ ਅਦਾਰੇ

ਯੂਨਿਟ ਚੌਥਾ

- (ੳ) ਉਪ ਭਾਸ਼ਾ ਅਤੇ ਪੰਜਾਬੀ ਦੀਆਂ ਉੱਪ ਭਾਸ਼ਾਵਾਂ
- (ਅ) ਉਪ ਭਾਸ਼ਾ ਅਤੇ ਭਾਸ਼ਾ ਨੀਤੀ
- (ੲ) ਦੁਨੀ ਚੰਦ੍ਰ, ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼ ਸਿੰਘ ਅਤੇ ਹਰਕੀਰਤ ਸਿੰਘ ਦਾ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਦੀ ਉਸਾਰੀ ਵਿੱਚ ਯੋਗਦਾਨ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਆਤਮ ਸਿੰਘ ਸਮਾਜਿਕ ਭਾਸ਼ਾ ਵਿਗਿਆਨ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1988
2. ਸੁਖਵਿੰਦਰ ਸਿੰਘ ਸੰਘਾ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿਗਿਆਨ
ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਕਾਦਮੀ, ਜਲੰਧਰ, 1999
3. ਸੁਰਿੰਦਰ ਸਿੰਘ ਖਹਿਰਾ (ਸੰਪਾ.) ਪੰਜਾਬੀ ਭਾਸ਼ਾ : ਵਿਆਕਰਣ ਅਤੇ ਬਣਤਰ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2001
4. ਹਰਕੀਰਤ ਸਿੰਘ ਅਤੇ ਉੱਜਲ ਸਿੰਘ ਬਾਹਰੀ ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਪੰਜਾਬੀ ਭਾਸ਼ਾ
ਪਬਲੀਕੇਸ਼ਨ, ਦਿੱਲੀ, 1973
5. ਹਰਕੀਰਤ ਸਿੰਘ ਭਾਸ਼ਾ ਅਤੇ ਭਾਸ਼ਾ ਵਿਗਿਆਨ
ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ, 1985
6. -ਉਹੀ- ਸਾਡੀ ਭਾਸ਼ਾ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
7. ਦੁਨੀ ਚੰਦ੍ਰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਵਿਕਾਸ
ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ, 1959
8. -ਉਹੀ- ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਵਿਆਕਰਣ
ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ, 1964
9. ਪਰਮਜੀਤ ਸਿੰਘ ਸਿੱਧੂ ਮਾਨਵ ਵਿਗਿਆਨਕ ਭਾਸ਼ਾ ਵਿਗਿਆਨ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
10. ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼ ਸਿੰਘ ਸਿਧਾਂਤਕ ਭਾਸ਼ਾ ਵਿਗਿਆਨ
ਮਦਾਨ ਪਬਲਿਸ਼ਜ ਪਟਿਆਲਾ, 1988
11. -ਉਹੀ- ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਸਰੋਤ ਅਤੇ ਬਣਤਰ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1988
12. ਭੁਪਿੰਦਰ ਸਿੰਘ ਖਹਿਰਾ ਨਵੀਨ ਭਾਸ਼ਾ ਵਿਗਿਆਨ
ਪੈਪਸੂ ਬੁੱਕ ਡਿਪੂ, ਪਟਿਆਲਾ, 1999
- 13 F. D. Sasure Course in General Linguistics
Fontona Collins, 1950

Mapping Matrix of Course MA/PUN/3/CC11

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	3	3	3
LO2	3	3	3	2	3	3	3	3
LO3	3	3	3	3	3	3	3	3
LO4	3	3	3	3	3	3	3	3
Average	3	3	3	2.5	3	3	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3: CO-PO-PSO Matrix for the Course MA/PUN/3/CC10

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PS O 1	PS O 2	PSO 3	PSO 4	PS O 5
LO1	3	3	3	2	2	3	3	3	3	3	3	3	3
LO2	3	3	3	2	3	3	3	3	3	3	3	3	3
LO3	3	3	3	3	3	3	3	3	3	3	3	3	3
LO4	3	3	3	3	3	3	3	3	3	3	3	3	3
Average	3	3	3	2.5	3	3	3	3	3	3	3	3	3

Paper Twenty-fourth
Punjabi Vartak (1900 Tak)
MA/PUN/3/DSC9

ਪੇਪਰ ਚੋਬੀਵਾਂ
ਪੰਜਾਬੀ ਵਾਰਤਕ (1900 ਈ. ਤੱਕ)

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵਾਰਤਕ ਦੇ ਸਿਧਾਂਤ ਤੋਂ ਜਾਣੂ ਕਰਾਉਂਦੇ ਹੋਏ ਮੱਧਕਾਲੀ ਅਤੇ ਅਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ ਦੀ ਵਿਸਤ੍ਰਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਨਾ।
- ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਵਾਰਤਕ ਸਾਹਿਤ ਵਿੱਚ ਰੁਚੀ ਪੈਦਾ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- 1 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ ਵਿੱਚ ਗਦ ਅਤੇ ਪਦ ਦੇ ਵਖਰੇਵੇਂ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਨਾ।
- 2 ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਵਾਰਤਕ ਦੇ ਨਿਕਾਸ, ਵਿਕਾਸ ਅਤੇ ਮੱਧਕਾਲੀ ਵਾਰਤਕ ਦੇ ਪ੍ਰਮੁੱਖ ਰੂਪਾਂ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 3 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮੱਧਕਾਲੀ ਅਤੇ ਅਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ ਦੇ ਅੰਤਰ-ਨਿਖੇੜ ਬਾਰੇ ਵਿਵਹਾਰਿਕ ਪੱਧਰ ਉੱਤੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 4 ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਧੁਨਿਕ ਵਾਰਤਕ ਦੇ ਨਿਕਾਸ ਅਤੇ ਵਿਕਾਸ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸਬੰਧਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਭਾਈ ਵੀਰ ਸਿੰਘ (ਸੰਪਾ.) ਪੁਰਾਤਨ ਜਨਮਸਾਖੀ
ਭਾਈ ਵੀਰ ਸਿੰਘ ਸਾਹਿਤ ਸਦਨ, ਨਵੀਂ ਦਿੱਲੀ

ਯੂਨਿਟ ਤੀਸਰਾ

ਸ਼ਰਧਾ ਰਾਮ ਫਿਲੌਰੀ ਪੰਜਾਬੀ ਬਾਤ-ਚੀਤ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2013

ਯੂਨਿਟ ਚੌਥਾ

ਗਿਆਨੀ ਦਿੱਤ ਸਿੰਘ ਨੀਤੀ ਪ੍ਰਕਾਸ਼
ਮੈਸਰਜ਼ ਤਾਰਾ ਸਿੰਘ ਕਿਸ਼ਨ ਸਿੰਘ, ਮਾਲਿਕ ਦਿੱਤ ਸਿੰਘ, ਹਰੀ ਬੁੱਕ ਡਿਪੋ, ਅੰਮ੍ਰਿਤਸਰ, 1930

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਸੰਦੀਪ ਕੌਰ ਸੇਖੋਂ ਗਿਆਨੀ ਦਿੱਤ ਸਿੰਘ ਦੀ ਵਾਰਤਕ ਦਾ ਅਧਿਐਨ (ਗੁਰਮਤਿ ਪ੍ਰੰਪਰਾ ਅਤੇ ਆਧੁਨਿਕਤਾ)
ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ, 2011
2. ਸੁਰਿੰਦਰ ਸਿੰਘ ਕੋਹਲੀ ਪੁਰਾਤਨ ਪੰਜਾਬੀ ਵਾਰਤਕ : ਸਰੂਪ ਸਿਧਾਂਤ ਤੇ ਵਿਕਾਸ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
3. ਹਰਭਜਨ ਸਿੰਘ (ਸੰਪਾ.) ਜਨਮਸਾਖੀ ਬਿਰਤਾਂਤ
ਵਿਦਵਾਨ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਬਾਲਾ ਕੋਟ
4. ਹਰਭਜਨ ਸਿੰਘ ਅਤੇ ਮਨਜੀਤ ਸਿੰਘ (ਸੰਪਾ.) ਸਾਖੀ ਸੂਰਤ
ਫਕੀਰ ਸਿੰਘ ਐਂਡ ਸੰਨਜ਼, ਅੰਮ੍ਰਿਤਸਰ, 1982
5. ਕਰਮਜੀਤ ਸਿੰਘ ਪੁਰਾਤਨ ਪੰਜਾਬੀ ਵਾਰਤਕ ਦਾ ਇਤਿਹਾਸ
ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ
6. ਕੁਲਵੰਤ ਸਿੰਘ ਪੰਜਾਬੀ ਵਾਰਤਕ : ਸੰਚਾਰ ਤੇ ਵਿਹਾਰ
ਰਵੀ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ
7. ਗੁਰਚਰਨ ਸਿੰਘ ਮੱਧਕਾਲੀ ਪਾਠ ਤੇ ਵਰਤਮਾਨ ਪ੍ਰਸੰਗ
ਆਰਸੀ ਪਬਲਿਸ਼ਰ, ਦਿੱਲੀ
8. -ਉੱਚੀ- ਮੱਧਕਾਲੀਨ ਪੰਜਾਬੀ ਵਾਰਤਕ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
9. ਬਿਮਲੇਸ਼ ਗੁਪਤਾ ਅਤੇ ਗਿਆਨੀ ਦਿੱਤ ਸਿੰਘ : ਜੀਵਨ, ਦਰਸ਼ਨ ਅਤੇ ਵਿਚਾਰਧਾਰਾ
ਸੰਦੀਪ ਕੌਰ ਸੇਖੋਂ ਐਸਥੈਟਿਕ ਪਬਲੀਕੇਸ਼ਨ, ਲੁਧਿਆਣਾ, 2016
10. ਰਤਨ ਸਿੰਘ ਜੱਗੀ ਪੁਰਾਤਨ ਪੰਜਾਬੀ ਵਾਰਤਕ
ਪੰਜਾਬ ਸਟੇਟ ਯੂਨੀਵਰਸਿਟੀ ਟੈਕਸਟ ਬੁੱਕ ਬੋਰਡ, ਚੰਡੀਗੜ੍ਹ
11. ਰਤਨ ਸਿੰਘ ਜੱਗੀ ਪੁਰਾਤਨ ਵਾਰਤਕ ਵਿਸ਼ੇਸ਼ ਅੰਕ, ਖੋਜ ਪਤ੍ਰਿਕਾ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ.

Mapping Matrix of Course MA/PUN/3/DSC9

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.5	3	2.75	2.75	2.25	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 4: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PS O 1	PS O 2	PSO 3	PSO 4	PS O5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	3	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.75	2.75	2.25	3	3	3	3	2.25	3	3

MA/PUN/3/DSC10
ਪੇਪਰ ਪਚੀਵਾਂ
ਪੰਜਾਬੀ ਸਵੈਜੀਵਨੀ ਸਾਹਿਤ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ 5 ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ ਦੇ ਰੂਪ ਸਵੈਜੀਵਨੀ ਸਾਹਿਤ ਦੀ ਸਿਧਾਂਤਕ ਅਤੇ ਵਿਹਾਰਕ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcome)

- 1 ਸਵੈਜੀਵਨੀ ਸਾਹਿਤ ਸੰਬੰਧੀ ਸਿਧਾਂਤਕ ਵਿਹਾਰਕ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।
- 2 ਪੰਜਾਬੀ ਸਵੈਜੀਵਨੀ ਦੇ ਇਤਿਹਾਸਕ ਵਿਕਾਸ, ਇਸਦੇ ਪ੍ਰਮੁੱਖ ਝੁਕਾਵਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 3 ਕੁਝ ਵਿਸ਼ੇਸ਼ ਸਵੈਜੀਵਨੀਕਾਰਾਂ ਦੀਆਂ ਸਵੈਜੀਵਨੀਆਂ ਦੀ ਵਿਹਾਰਕ ਪੜ੍ਹਤ ਦੁਆਰਾ ਸਬੰਧਿਤ ਲੇਖਕ ਦੇ ਜੀਵਨ ਅਤੇ ਸਾਹਿਤਕ ਸਫਰ ਬਾਰੇ ਵਿਸ਼ੇਸ਼ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।
- 4 ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਸਵੈਜੀਵਨੀ ਸਾਹਿਤ ਰਾਹੀਂ ਆਪਣੇ ਭਾਵਾਂ ਨੂੰ ਪੇਸ਼ ਕਰਨ ਦੀ ਸੂਝ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸਬੰਧਿਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਹਰਿਭਜਨ ਸਿੰਘ ਚੋਲਾ ਟਾਕੀਆਂ ਵਾਲਾ
ਨਵਯੁੱਗ ਪਬਲਿਸ਼ਰਜ਼, ਦਿੱਲੀ

ਯੂਨਿਟ ਤੀਸਰਾ

ਸਰਦਾਰਾ ਸਿੰਘ ਜੌਹਲ

ਰੰਗਾਂ ਦੀ ਗਾਗਰ

ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ

ਯੂਨਿਟ ਚੌਥਾ

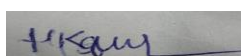
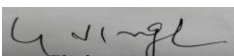
ਦਲੀਪ ਕੌਰ ਟਿਵਾਣਾ ਪ੍ਰਫਤੇ ਹੋ ਤੋ ਸੁਨੇ (ਸਾਹਿਤਕ ਸਵੈਜੀਵਨੀ)
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2001

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਧਰਮ ਚੰਦ ਬਾਤਿਸ਼ ਸਵੈਜੀਵਨੀ ਸ਼ਾਸਤਰ
ਪੁਨੀਤ ਪਬਲਿਸ਼ਰ, ਮਲੇਰਕੋਟਲਾ, 1999
2. ਬ੍ਰਹਮਜਗਦੀਸ਼ ਸਿੰਘ ਦਲੀਪ ਕੌਰ ਟਿਵਾਣਾ : ਜੀਵਨ ਤੇ ਰਚਨਾ
ਵਾਰਿਸ ਸ਼ਾਹ ਫਾਊਂਡੇਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ, 2009
3. ਰਤਨ ਸਿੰਘ ਜੱਗੀ ਪੰਜਾਬੀ ਸਵੈਜੀਵਨੀ ਸਾਹਿਤ : ਇੱਕ ਮੁਲਾਂਕਣ
ਭਾਸ਼ਾ ਵਿਭਾਗ ਪੰਜਾਬ, ਪਟਿਆਲਾ, 198

Mapping Matrix of Course MA/PUN/3/DSC10

Table 1: CO-PO Matrix for the Course



CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.5	3	2.75	2.75	2.25	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 4: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3	3	2	3	3	3	2	3	3
LO2	3	3	3	3	3	3	2	3	3	3	2	3	3
LO3	3	2	3	3	3	3	2	3	3	3	2	3	3
LO4	3	2	3	2	2	2	3	3	3	3	3	3	3
Average	3	2.5	3	2.75	2.75	2.75	2.25	3	3	3	2.25	3	3

MA/PUN/3/SEC3

ਪੇਪਰ ਛੱਬੀਵਾਂ

ਕੰਪਿਊਟਰ, ਇੰਟਰਨੈੱਟ ਅਤੇ ਪੰਜਾਬੀ ਟਾਈਪਿੰਗ

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ 5 ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਕੰਪਿਊਟਰ ਸੰਬੰਧੀ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਮੁਹੱਈਆ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcome)

- 1 ਕੰਪਿਊਟਰ ਦੇ ਸਿਧਾਂਤਕ ਗਿਆਨ ਅਤੇ ਇਸਦੀ ਵਿਹਾਰਕ ਵਰਤੋਂ ਸੰਬੰਧੀ ਯੋਗਤਾ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 2 ਇੰਟਰਨੈੱਟ ਦੀ ਵਰਤੋਂ ਵਿੱਚ ਕੁਸ਼ਲਤਾ ਹਾਸਲ ਹੋਵੇਗੀ।
- 3 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਵਿਚ ਟਾਈਪਿੰਗ ਦੀ ਸੂਝ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 4 ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿੱਚ ਕੰਪਿਊਟਰ ਅਤੇ ਇੰਟਰਨੈੱਟ ਦੀ ਵਰਤੋਂ ਕਰਨ ਦੇ ਸਮਰੱਥ ਹੋ ਸਕੇਗਾ।

ਯੂਨਿਟ ਪਹਿਲਾ

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿੱਚ ਕੰਪਿਊਟਰ ਬਾਰੇ ਜਾਣ-ਪਛਾਣ

(ੳ) ਕੰਪਿਊਟਰ : ਨਾਮਕਰਣ, ਕਾਰਜ ਵਿਧੀ, ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਅਤੇ ਕਿਸਮਾਂ

(ਅ) ਕੰਪਿਊਟਰ : ਇਨਪੁਟ ਭਾਗ : ਕੀ ਬੋਰਡ, ਮਾਊਸ, ਸਕੈਨਰ, ਟੱਚ ਸਕਰੀਨ, ਵੈੱਬ ਕੈਮ

ਆਊਟਪੁਟ ਭਾਗ : ਮੋਨੀਟਰ, ਸਪੀਕਰ, ਪ੍ਰਿੰਟਰ, ਐਲ. ਸੀ. ਡੀ. ਪ੍ਰੋਜੈਕਟਰ, ਸਟੋਰੇਜ ਭਾਗ : ਹਾਰਡ

ਡਿਸਕ, ਸੀਡੀ,

ਡੀਵੀਡੀ, ਪੈਨ ਡਰਾਈਵ, ਮੈਮਰੀ ਕਾਰਡ,

(ੲ) ਕੰਪਿਊਟਰ : ਹਾਰਡਵੇਅਰ ਅਤੇ ਸਾਫਟਵੇਅਰ

ਯੂਨਿਟ ਦੂਸਰਾ

ਪੰਜਾਬੀ ਫੋਂਟ, ਕੀ-ਬੋਰਡ ਅਤੇ ਪੰਜਾਬੀ ਟਾਈਪਿੰਗ

(ੳ) ਪੰਜਾਬੀ ਫੋਂਟ : ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਕਿਸਮਾਂ

(ਅ) ਪੰਜਾਬੀ ਫੋਂਟ : ਕੀ-ਬੋਰਡ ਅਤੇ ਫੋਂਟ ਸਮੱਸਿਆਵਾਂ, ਵੱਖ-ਵੱਖ ਕੀ-ਬੋਰਡ ਖਾਕਿਆਂ (ਲੇਆਊਟਸ) ਵਿੱਚ ਭਿੰਨਤਾਵਾਂ

ਅਤੇ ਇਨ੍ਹਾਂ ਕਾਰਨ ਪੈਦਾ ਹੋਈਆਂ ਸਮੱਸਿਆਵਾਂ, ਫੌਟ ਇੰਸਟਾਲ ਕਰਕੇ ਵਰਤਣੇ
 (ੳ) ਪੰਜਾਬੀ ਟਾਈਪਿੰਗ : ਕੀ-ਬੋਰਡ ਉੱਤੇ ਉਗਲਾਂ ਦੀ ਸਥਿਤੀ, ਫੁੱਟ ਨੋਟ ਲਗਾਉਣੇ, ਫੌਟ ਬਦਲਣ ਦਾ ਕੀ-ਬੋਰਡ
 ਸ਼ਾਰਟਕੱਟ ਬਣਾਉਣਾ, ਸ਼ਬਦ ਦੇ ਪਹਿਲੇ ਅੱਖਰ ਦੇ ਬਦਲਣ ਦੀ ਸਮੱਸਿਆ ਨੂੰ ਹੱਲ ਕਰਨਾ, ਹੋੜਾ ਅਤੇ ਪੁੱਠੇ ਕਾਮੇ
 ਦੀ ਸਮੱਸਿਆ ਦਾ ਹੱਲ ਅਤੇ ਆਟੋ ਕ੍ਰੈਕਟ ਬਣਾਉਣਾ।

ਯੂਨਿਟ ਤੀਸਰਾ

ਪੰਜਾਬੀ ਸਾਫਟਵੇਅਰ ਅਤੇ ਇਨ੍ਹਾਂ ਦੀ ਵਰਤੋਂ

(ੳ) ਪੰਜਾਬੀ ਵਰਡ ਪ੍ਰੋਸੈਸਰ ਅੱਖਰ

(ਅ) ਫੌਟ ਕਨਵਰਟਰ : ਫੌਟ ਕਨਵਰਟਰ ਅਤੇ ਪੰਜਾਬੀ ਦਾ ਸਪੈੱਲ ਚੈੱਕਰ, ਯੂਨੀਕੋਡ ਬਾਰੇ ਜਾਣ-ਪਛਾਣ, ਯੂਨੀਕੋਡ ਦੀ ਲੋੜ,
 ਪੰਜਾਬੀ ਯੂਨੀਕੋਡ ਫੌਟ ਕਨਵਰਟਰ

(ੳ) ਸੋਧਕ ਟਾਈਪਿੰਗ ਪੈਡ, ਈਸ਼ਰ ਮਾਈਕਰੋਮੀਡੀਆ, ਕਿਸ਼ਨ ਮਾਈਕਰੋ ਮੀਡੀਆ, ਪੰਜਾਬੀ ਪੀਡੀਆ, ਗੁਰਮੁਖੀ ਓ. ਸੀ. ਆਰ.
 ਦੀ ਵਰਤੋਂ

ਯੂਨਿਟ ਚੌਥਾ

ਇੰਟਰਨੈੱਟ ਤੇ ਪੰਜਾਬੀ ਦੀ ਵਰਤੋਂ

(ੳ) ਈ ਮੇਲ : ਈ ਮੇਲ ਖਾਤਾ ਬਣਾਉਣਾ, ਪੰਜਾਬੀ ਵਿੱਚ ਈ ਮੇਲ ਸੰਦੇਸ਼. ਤਿਆਰ ਕਰਨਾ, ਭੇਜਣਾ, ਪ੍ਰਾਪਤ ਕਰਨਾ/
 ਪੜ੍ਹਨਾ ਰਿਪਲਾਈ ਕਰਨਾ, ਫਾਰਵਰਡ ਕਰਨਾ ਅਤੇ ਫਾਈਲ ਅਟੈਚ ਕਰਨਾ

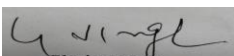
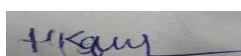
(ਅ) ਅਧਿਅਨ/ ਅਧਿਆਪਨ ਵੈੱਬਸਾਈਟਾਂ : ਆਨ-ਲਾਈਨ ਸ.ਬਦ ਕੋਸ਼., ਗੁਰਮੁਖੀ, ਸ਼ਾਹਮੁਖੀ, ਦੇਵਨਾਗਰੀ, ਰੋਮਨ
 ਦਰਮਿਆਨ ਲਿਪੀਅੰਤਰਣ, ਪੰਜਾਬੀ, ਹਿੰਦੀ ਅਤੇ ਅੰਗਰੇਜ਼ੀ ਦਰਮਿਆਨ ਅਨੁਵਾਦ

(ੳ) ਸਰਚ ਇੰਜਣ ਤੇ ਪੰਜਾਬੀ ਵਿੱਚ ਸਰਚ ਕਰਨਾ, ਆਨਲਾਈਨ ਪੰਜਾਬੀ ਸਪੈੱਲ ਚੈੱਕਰ ਅਤੇ ਗਰੈਮਰ ਚੈੱਕਰ, ਭਾਸ਼ਾ
 ਇੰਟਰਫੇਸ ਪੈਕ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

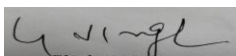
1. ਸੀ. ਪੀ. ਕੰਬੋਜ

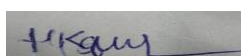
ਮਾਈਕਰੋਸਾਫਟ ਵਿੰਡੋਜ਼.

- ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2012
2. -ਉਹੀ- ਸਾਈਬਰ ਸੰਸਾਰ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2010
3. -ਉਹੀ- ਕੰਪਿਊਟਰ ਵਿਗਿਆਨ
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4. -ਉਹੀ- ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਕੰਪਿਊਟਰੀਕਰਨ
ਕੰਪਿਊਟਰ ਵਿਗਿਆਨ ਪ੍ਰਕਾਸ਼ਨ, ਫਾਜ਼ਿਲਕਾ, 2015
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6. ਜਗਮੋਹਨ ਸਿੰਘ ਕੰਪਿਊਟਰ : ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਅਤੇ ਉਪਯੋਗ
ਜੁਨੇਜਾ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2006
- 7 Peter Norton Introduction to Computers
McGraw Hill Edu. Pvt. Ltd, New Delhi, 2011
8. V. Rajaraman Fundamentals of Computers
PHI Learning Pvt. Ltd., Delhi, 2010

Mapping Matrix of Course MA/PUN/3/SEC3
Table 1: CO-PO Matrix for the Course





CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	3	3	3	3		3	3
LO4	3	3	3	2	2	3	3	3
Average	3	3	3	2.75	2.75	2.50	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	2	2	3
Average	3	3	2.50	2.75	3

Table 4: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PS O 1	PS O 2	PSO 3	PSO 4	PS O5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	3	3	3
LO3	3	3	3	3	3	3	3	3	3	3	3	3	3
LO4	3	3	3	2	2	3	3	3	3	3	2	2	3
Average	3	3	3	2.75	2.75	2.50	3	3	3	3	2.5	2.75	3

MA/PUN/3/SEC4
ਪੇਪਰ ਸਤਾਈਵਾਂ
ਮੀਡੀਆ ਅਤੇ ਪੰਜਾਬੀ ਮੀਡੀਆ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।

2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।

2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਚਾਰ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।

3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮੀਡੀਆ ਅਤੇ ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcome)

- ਪੰਜਾਬੀ ਮੀਡੀਆ ਦੇ ਇਤਿਹਾਸ, ਵਿਭਿੰਨ ਰੂਪਾਂ ਤੇ ਪੱਖਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- ਪੱਤਰਕਾਰੀ ਅਤੇ ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਦੇ ਵਿਭਿੰਨ ਰੂਪਾਂ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੋਵੇਗਾ।
- ਵਿਦਿਆਰਥੀ ਪੱਤਰਕਾਰੀ ਦੇ ਕਿੱਤੇ ਵਿਚਲੀਆਂ ਅਪਾਰ ਸੰਭਾਵਨਾਵਾਂ ਤੋਂ ਜਾਣੂ ਹੁੰਦੇ ਹੋਏ ਇਸ ਖੇਤਰ ਵਿੱਚ ਆਪਣਾ ਕੈਰੀਅਰ ਬਣਾਉਣ ਦੇ ਯੋਗ ਹੋਵੇਗਾ।
- ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਪੱਤਰਕਾਰੀ ਦੇ ਨਾਲ ਨਾਲ ਸਾਹਿਤਕ ਸੂਝ ਵੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ : ਪੱਤਰਕਾਰੀ : ਸਿਧਾਂਤਕ ਪਰਿਪੇਖ

(ੳ) ਪੱਤਰਕਾਰੀ : ਅਰਥ, ਤੱਤ, ਸਰੂਪ ਅਤੇ ਸੰਕਲਪ

(ਅ) ਪੱਤਰਕਾਰੀ ਅਤੇ ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ : ਨਿਕਾਸ, ਵਿਕਾਸ ਅਤੇ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ

(ੲ) ਪ੍ਰਿੰਟ ਅਤੇ ਇਲੈਕਟ੍ਰੋਨਿਕ ਮੀਡੀਆ ਦਾ ਤਕਨੀਕੀ ਵਿਕਾਸ

ਯੂਨਿਟ ਦੂਸਰਾ : ਜਨ - ਸੰਚਾਰ

(ੳ) ਜਨ ਸੰਚਾਰ : ਅਰਥ, ਕਾਰਜ ਅਤੇ ਮਹੱਤਵ

(ਅ) ਜਨ ਸੰਚਾਰ ਕਿਸਮਾਂ : ਪ੍ਰਿੰਟ ਤੇ ਇਲੈਕਟ੍ਰੋਨਿਕ, ਪੱਤਰਕਾਰੀ ਦੇ ਵੱਖ-ਵੱਖ ਰੂਪ, ਰੋਜ਼ਾਨਾ, ਸਪਤਾਹਿਕ ਪੰਚਰਾ ਰੋਜ਼ਾਨਾ ਅਤੇ ਮਾਸਿਕ ਪਰਚੇ, ਫੋਟੋ ਪੱਤਰਕਾਰੀ

(ੲ) ਨਵੇਂ ਸੰਚਾਰ ਸਾਧਨ : ਵੈੱਬਸਾਈਟ, ਸੋਸ਼ਲ ਨੈੱਟਵਰਕਿੰਗ

ਯੂਨਿਟ ਤੀਸਰਾ : ਪੱਤਰਕਾਰੀ : ਸਹਾਇਕ ਖੇਤਰ ਅਤੇ ਸਦਾਚਾਰਤਾ

(ੳ) ਪੱਤਰਕਾਰੀ ਦੇ ਸਹਾਇਕ ਖੇਤਰ : ਅਨੁਵਾਦ ਕਲਾ, ਸੰਪਾਦਨ ਕਲਾ, ਫੀਚਰ ਲੇਖਣ, ਇਸ਼ਤਿਹਾਰ,

ਸਰਕੁਲੇਸ਼ਨ, ਮਾਰਕੀਟਿੰਗ

(ਅ) ਪੱਤਰਕਾਰੀ ਅਤੇ ਸਦਾਚਾਰਤਾ : ਪੀਲੀ ਪੱਤਰਕਾਰੀ, ਪੱਤਰਕਾਰ ਦੀਆਂ ਨੈਤਿਕ ਕਦਰਾਂ-ਕੀਮਤਾਂ, ਵਧੀਆ ਪੱਤਰਕਾਰੀ ਦੇ ਸਦਾਚਾਰਕ ਗੁਣ,

(ੲ) ਪੱਤਰਕਾਰੀ ਅਤੇ ਕਾਨੂੰਨ : ਕਾਨੂੰਨੀ ਮੁੱਦੇ ਅਤੇ ਭਾਰਤ ਵਿੱਚ ਪ੍ਰੈੱਸ ਨਾਲ ਸਬੰਧਿਤ ਕਾਨੂੰਨਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ, ਖ਼ਬਰਾਂ ਦਾ ਮੁਲਾਂਕਣ

ਯੂਨਿਟ ਚੌਥਾ : ਰਚਨਾਤਮਕ ਪੱਤਰਕਾਰੀ

(ੳ) ਰਚਨਾਤਮਕ ਪੱਤਰਕਾਰੀ : ਅਰਥ, ਮਹੱਤਤਾ, ਦਰਪੇਸ. ਚੁਣੌਤੀਆਂ ਅਤੇ ਸੰਭਾਵਨਾਵਾਂ

(ਅ) ਭਾਸ਼ਾ, ਸਾਹਿਤ ਅਤੇ ਸਭਿਆਚਾਰ ਦੇ ਸੰਦਰਭ ਵਿੱਚ ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਦੇ ਮੌਜੂਦਾ ਰੁਝਾਨ, ਸੰਪਾਦਕੀ ਪੰਨਾ

(ੲ) ਪੱਤਰਕਾਰੀ ਸਪਲੀਮੈਂਟ : ਅਰਥ, ਕਿਸਮਾਂ, ਮਹੱਤਵ, ਨਿਰਮਾਣ, ਵਿਚਾਰਾਂ ਦਾ ਵਿਕਾਸ, ਰਚਨਾਤਮਕ ਲੇਖਣੀ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਅਮਰਜੀਤ ਸਿੰਘ ਵੜੈਚ ਹੁਣ ਤੁਸੀਂ ਖ਼ਬਰਾਂ ਸੁਣੋ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2010
2. ਐੱਲ. ਆਰ. ਨਾਗਪਾਲ ਸਮਾਚਾਰ ਪੱਤਰ ਡਿਜ਼ਾਈਨ ਤੇ ਛਪਾਈ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2002
3. ਹਰਜਿੰਦਰ ਸਿੰਘ ਵਾਲੀਆ ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਅਤੇ ਸਾਹਿਤਕ ਪੱਤਰਕਾਰੀ
ਨੈਸ਼ਨਲ ਬੁੱਕ ਸ਼ਾਪ ਨਵੀਂ ਦਿੱਲੀ, 2005
4. ਹਰਜਿੰਦਰ ਸਿੰਘ ਵਾਲੀਆ ਪੱਤਰਕਾਰੀ ਅਤੇ ਜਨ ਸੰਚਾਰ
ਅਤੇ ਪਾਰੁਲ ਰਾਏਜ਼ਾਦਾ ਮਦਾਨ ਪਬਲਿਸਿੰਗ ਹਾਊਸ, ਪਟਿਆਲਾ, 2014
5. ਹਰਜਿੰਦਰ ਸਿੰਘ ਅਤੇ ਸੰਚਾਰ
ਭੁਪਿੰਦਰ ਬੱਤਰਾ ਮਦਾਨ ਪਬਲੀਕੇਸ਼ਨ, ਪਟਿਆਲਾ, 2005
6. ਕਿਸ਼ਨੀ ਨਵਲਾਣੀ ਸੂਚਨਾ ਸੰਚਾਰ
ਮਦਾਨ ਪਬਲਿਸਿੰਗ ਹਾਊਸ, ਪਟਿਆਲਾ, 2004
7. ਗੁਰਮੀਤ ਸਿੰਘ ਮਾਨ ਪੱਤਰਕਾਰੀ ਦੇ ਮੂਲ ਸਿਧਾਂਤ
ਮਦਾਨ ਪਬਲਿਸਿੰਗ ਹਾਊਸ, ਪਟਿਆਲਾ, 1996
8. ਨਰਿੰਦਰ ਸਿੰਘ ਕਪੂਰ ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਦਾ ਵਿਕਾਸ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2012
9. ਮੇਘਾ ਸਿੰਘ ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਦਾ ਇਤਿਹਾਸ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2001
10. ਰਵੇਲ ਸਿੰਘ ਮੀਡੀਆ : ਵਿਹਾਰਕ ਅਧਿਐਨ
ਗਰੇਸੀਅਸ ਬੁੱਕਸ, ਪਟਿਆਲਾ, 2013
11. Gurmeet Singh Mann Challenges and Opportunities Before Indian Media
Punjabi University, Patiala, 2012
12. Joginder Singh Punjabi Journalism : Issues & Concerns
Punjabi University, Patiala, 2012
13. Navjit Singh Johal (Ed.) Media Ethics : Issues & Concerns
Punjabi University, Patiala, 2012

Mapping Matrix of Course MA/PUN/3/SEC4

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	3	3	3	3	3	3	3
LO4	3	3	3	2	3	3	3	3
Average	3	3	3	2.75	3	2.50	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PS O 1	PS O 2	PSO 3	PSO 4	PS O 5
LO1	3	3	3	3	3	2	3	3	3	3	3	3	3
LO2	3	3	3	3	3	2	3	3	3	3	3	3	3
LO3	3	3	3	3	3	3	3	3	3	3	3	3	3
LO4	3	3	3	2	3	3	3	3	3	3	3	3	3
Average	3	3	3	2.75	3	2.5	3	3	3	3	3	3	3

Paper Twenty-eighth
Punjabi Bhasha Vigyan : Mudhli Jan-Pchhan

MA/PUN/9/OEC3
ਪੇਪਰ ਅਠਾਈਵਾਂ (ਓਪਨ ਇਲੈਟਿਕ)
ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿਗਿਆਨ : ਮੁੱਢਲੀ ਜਾਣ-ਪਛਾਣ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ:

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ।

- 1 ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ।
- 2 ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸਵਾਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸਵਾਲ ਕਰਨੇ ਹਨ।
- 3 4 ਯੂਨਿਟਾਂ ਵਿੱਚੋਂ ਪੁੱਛਿਆ ਗਿਆ ਹਰ ਸਵਾਲ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

- 1 ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
- 2 ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿਚ ਛੋਟੇ ਸਵਾਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿਚ ਲੱਗਿਆਂ ਪੁਸਤਕਾਂ/ਯੂਨਿਟਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸਵਾਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸਵਾਲ ਵਿਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
- 3 ਹਰ ਯੂਨਿਟ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ, ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ ਇੱਕ ਕਰਨਾ ਹੋਵੇਗਾ।
- 4 ਵਿਦਿਆਰਥੀ ਦੂਸਰੇ ਅਨੁਸ਼ਾਸਨਾਂ ਨਾਲ ਸਬੰਧਿਤ ਹੋਣ ਕਾਰਨ ਸਵਾਲ ਸੰਬੰਧ ਅਤੇ ਸਰਲ ਪੁੱਛੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Outcome)

- ਵਿਦਿਆਰਥੀ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਦਾ ਮੁੱਢਲਾ ਗਿਆਨ ਪ੍ਰਦਾਨ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcome)

- 1 ਭਾਸ਼ਾ ਵਿਗਿਆਨਕ ਦ੍ਰਿਸ਼ਟੀ ਤੋਂ ਕਿਸੇ ਵੀ ਭਾਸ਼ਾ ਦੀ ਪ੍ਰਕਿਰਤੀ ਨੂੰ ਸਮਝਣ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।
- 2 ਧੁਨੀ ਵਿਗਿਆਨ, ਭਾਵੰਸ਼ ਪ੍ਰਬੰਧ, ਵਾਕ ਵਿਗਿਆਨ ਅਤੇ ਅਰਥ ਵਿਗਿਆਨ ਦੀ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਨਗੇ।
- 3 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਧੁਨੀ ਪ੍ਰਬੰਧ ਬਾਰੇ ਗਿਆਨ ਹਾਸਿਲ ਹੋਵੇਗਾ।
- 4 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਭਾਸ਼ਾ ਦੇ ਵਿਗਿਆਨਿਕ ਅਧਿਐਨ ਦੀ ਮੁਹਰਬ ਹਾਸਿਲ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ

ਧੁਨੀ ਅਤੇ ਧੁਨੀ ਵਿਗਿਆਨ

ਪੰਜਾਬੀ ਧੁਨੀ ਵਿਉਂਤ : ਸਵਰ ਧੁਨੀਆਂ, ਵਿਅੰਜਨ ਧੁਨੀਆਂ ਦੇ ਸੰਦਰਭ ਵਿਚ

ਯੂਨਿਟ-ਦੂਸਰਾ

ਭਾਵੰਸ਼ ਅਤੇ ਭਾਵੰਸ਼ ਪ੍ਰਬੰਧ (ਰੂਪ ਵਿਗਿਆਨ)

ਪੰਜਾਬੀ ਭਾਵੰਸ਼ ਵਿਉਂਤ : ਲਿੰਗ, ਵਚਨ ਅਤੇ ਕਿਰਿਆ ਦੇ ਸੰਦਰਭ ਵਿਚ

ਯੂਨਿਟ- ਤੀਸਰਾ

ਵਾਕ ਅਤੇ ਵਾਕ ਵਿਗਿਆਨ

ਪੰਜਾਬੀ ਵਾਕ ਵਿਉਂਤ : ਉਦੇਸ਼ ਤੇ ਵਿਧੇਅ ਦੇ ਸੰਦਰਭ ਵਿਚ
ਯੂਨਿਟ-ਚੌਥਾ

ਅਰਥ ਅਤੇ ਅਰਥ ਵਿਗਿਆਨ

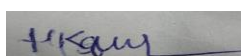
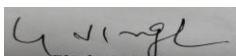
ਪੰਜਾਬੀ ਅਰਥ ਵਿਉਂਤ : ਅਰਥ ਵਿਸਥਾਰ, ਅਰਥ ਸੰਕੋਚ, ਅਰਥ ਆਦੇਸ਼ ਦੇ ਸੰਦਰਭ ਵਿਚ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

- 1 ਸੁਖਵਿੰਦਰ ਸਿੰਘ ਸੰਘਾ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿਗਿਆਨ, ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਕਾਦਮੀ, ਜਲੰਧਰ, 1999
- 2 ਹਰਕੀਰਤ ਸਿੰਘ ਸਾਡੀ ਭਾਸ਼ਾ, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
- 3 ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼ ਸਿੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਸਰੋਤ ਤੇ ਬਣਤਰ, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1988
- 4 ਭੁਪਿੰਦਰ ਸਿੰਘ ਖਹਿਰਾ ਨਵੀਨ ਭਾਸ਼ਾ ਵਿਗਿਆਨ
ਪੈਪਸੂ ਬੁੱਕ ਡਿਪੂ, ਪਟਿਆਲਾ, 1999
- 5 ਡਾ ਮਨਜੀਤ ਕੌਰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ, ਬਣਤਰ ਤੇ ਵਰਤੋਂ ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ

Mapping Matrix of Course MA/PUN/9/OEC2

Table 1: CO-PO Matrix for the Course



CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PS O 1	PS O 2	PSO 3	PSO 4	PS O5
LO1	3	3	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	3	3	2	3	2	3	3	3	3	3	2.75	3

ਪੇਪਰ ਉੱਨਤੀਵਾਂ (ਓਪਨ ਇਲੈਕਟਿਵ)
ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਅਤੇ ਸੱਭਿਆਚਾਰ : ਸੰਖੇਪ ਜਾਣ-ਪਛਾਣ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਟਾਪਿਕਾਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
- 4 ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਦੂਸਰੇ ਅਨੁਸ਼ਾਸਨਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਹੋਣ ਕਾਰਨ ਸਵਾਲ ਸੰਖੇਪ ਅਤੇ ਸਰਲ ਪੁੱਛੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਅਤੇ ਸੱਭਿਆਚਾਰ ਨਾਲ ਜਾਣ-ਪਛਾਣ ਕਰਾਉਣਾ।
- ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਅਤੇ ਸੱਭਿਆਚਾਰ ਦੇ ਵਿਲੱਖਣ ਅਤੇ ਨਿਵੇਕਲੇ ਸਰੂਪ ਨੂੰ ਸਪੱਸ਼ਟ ਕਰਦੇ ਹੋਏ ਵਰਤਮਾਨ ਸਮੇਂ ਵਿੱਚ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ/ਸੱਭਿਆਚਾਰ ਨੂੰ ਦਰਪੇਸ਼ ਚੁਣੌਤੀਆਂ ਬਾਰੇ ਚਰਚਾ ਕਰਾਂਗੇ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning outcomes)

- 1 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸੱਭਿਆਚਾਰ ਅਤੇ ਲੋਕਧਾਰਾ ਦੇ ਸਿਧਾਂਤਕ ਪਹਿਲੂਆਂ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੋਵੇਗਾ।
- 2 ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦੇ ਦੋ ਵਿਸ਼ੇਸ਼ ਪਛਾਣ ਚਿੰਨ੍ਹਾਂ ਰਾਹੀਂ ਪੰਜਾਬੀ ਮਾਨਸਿਕਤਾ ਅਤੇ ਪੰਜਾਬੀਅਤ ਨੂੰ ਸਮਝਣ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।
- 3 ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਲੋਕ ਪਰੰਪਰਾ ਦੀ ਸੰਖੇਪ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 4 ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਜਨ-ਜੀਵਨ ਪ੍ਰਤੀ ਆਪਣੀ ਸਮਝ ਪੈਦਾ ਕਰ ਸਕਣ ਦੇ ਯੋਗ ਹੋਣਗੇ।

ਯੂਨਿਟ ਪਹਿਲਾ :

- ੳ) ਲੋਕਧਾਰਾ ਪ੍ਰਕਿਰਤੀ, ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਖੇਤਰ
- ਅ) ਲੋਕਧਾਰਾ ਦੇ ਮੂਲ ਪਛਾਣ ਚਿੰਨ੍ਹ

ਯੂਨਿਟ ਦੂਸਰਾ :

ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਦੀਆਂ ਪ੍ਰਗਟਾਵੀਆਂ (ਲੋਕਗੀਤ, ਲੋਕ ਕਥਾ, ਲੋਕ ਵਿਸ਼ਵਾਸ
ਅਤੇ ਰੀਤੀ ਰਿਵਾਜ)

ਯੂਨਿਟ ਤੀਸਰਾ :

ਸਭਿਆਚਾਰ : ਪਰਿਭਾਸ਼ਾ, ਪ੍ਰਕਿਰਤੀ ਅਤੇ ਖੇਤਰ
ਸਭਿਆਚਾਰ ਦੇ ਪਛਾਣ ਚਿੰਨ੍ਹ

ਯੂਨਿਟ ਚੌਥਾ :

ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ
ਪੰਜਾਬੀ ਲੋਕ ਨਾਟਕ, ਲੋਕ ਕਲਾਵਾਂ ਅਤੇ ਲੋਕ ਨ੍ਰਿਤ ਬਾਰੇ ਸੰਖੇਪ ਜਾਣਕਾਰੀ
ਵਰਤਮਾਨ ਸਮੇਂ ਵਿੱਚ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਨੂੰ ਦਰਪੇਸ਼ ਚੁਣੌਤੀਆਂ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਸੋਹਿੰਦਰ ਸਿੰਘ ਬੇਦੀ ਪੰਜਾਬ ਦੀ ਲੋਕਧਾਰਾ
ਨੈਸ਼ਨਲ ਬੁੱਕ ਟ੍ਰੱਸਟ, ਇੰਡੀਆ, 1999
2. ਕਰਮਜੀਤ ਸਿੰਘ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਸਮੀਖਿਆ
ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ, 2012
3. ਕਰਨੈਲ ਸਿੰਘ ਖਿੰਦ ਲੋਕਯਾਨ ਅਧਿਐਨ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ
4. ਗੁਰਬਖਸ਼ ਸਿੰਘ ਫਰੈਂਕ ਸਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ
ਪੰਜਾਬੀ ਰਾਈਟਰਜ਼ ਕੋਆਪਰੇਟਿਵ ਸੁਸਾਇਟੀ, ਲੁਧਿਆਣਾ
5. ਜਸਵਿੰਦਰ ਸਿੰਘ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ : ਪਛਾਣ ਚਿੰਨ੍ਹ
ਗਰੇਸੀਅਸ ਬੁੱਕਸ, ਪਟਿਆਲਾ, 2012
6. ਜੋਗਿੰਦਰ ਸਿੰਘ ਕੈਰੋਂ ਲੋਕਯਾਨ ਸ਼ਾਸਤਰ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
7. ਜੀਤ ਸਿੰਘ ਜੋਸ਼ੀ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਬਾਰੇ
ਵਾਰਿਸ ਸ਼ਾਹ ਫਾਊਂਡੇਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ, 1999
8. ਤੇਜਵੰਤ ਸਿੰਘ ਗਿੱਲ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ : ਪਰੰਪਰਾ ਅਤੇ ਪ੍ਰਤਿਮਾਨ
ਸਾਹਿਤ ਕਲਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ, 2002
9. ਭੁਪਿੰਦਰ ਸਿੰਘ ਖਹਿਰਾ ਲੋਕਧਾਰਾ ਭਾਸ਼ਾ ਅਤੇ ਸਭਿਆਚਾਰ
ਪੈਪਸੂ ਬੁੱਕ ਡਿਪੂ, ਪਟਿਆਲਾ, 1998
10. ਰਵਿੰਦਰ ਭੱਠਲ ਅਤੇ ਲਾਭ ਸਿੰਘ ਖੀਵਾ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਅਤੇ ਲੋਕਧਾਰਾ
ਪੰਜਾਬੀ ਸਾਹਿਤ ਅਕਾਦਮੀ, ਲੁਧਿਆਣਾ, 2003
11. Harjeet Singh Gill Folk Art of the Punjab
Punjabi University, Patiala

Mapping Matrix of Course MA/PUN/9/OEC3

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	2	2	3
Average	3	3	2.75	2.75	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	3	3	3	3	3	3	3	3	3
LO2	3	3	3	2	3	3	3	3	3	3	3	3	3
LO3	3	3	3	2	3	3	3	3	3	3	3	3	3
LO4	3	3	3	2	3	3	3	3	3	3	2	2	3
Average	3	3	3	2	3	2	3	3	3	3	2.75	2.75	3

Aadhunik Punjabi Kavita (1961 to Hun tak)

MA/PUN/4/CC12

ਸਮੈਸਟਰ - ਚੌਥਾ

ਪੇਪਰ ਤੀਹਵਾਂ

ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ (1961 ਤੋਂ ਹੁਣ ਤੱਕ)

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸ਼ਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਧੁਨਿਕਤਾ ਅਤੇ ਆਧੁਨਿਕ ਬੋਧ ਤੋਂ ਜਾਣੂ ਕਰਾਉਂਦੇ ਹੋਏ ਅਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੀ ਵਿਸਥਾਰਤ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcome)

1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੀ ਇਤਿਹਾਸਕ ਰੂਪ-ਰੇਖਾ ਉਲੀਕਦੇ ਹੋਏ ਆਧੁਨਿਕ ਕਵਿਤਾ ਦੇ ਪ੍ਰਮੁੱਖ ਝੁਕਾਵਾਂ ਪ੍ਰਵਿਰਤੀਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
2. ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਵਿਧਾਗਤ ਸਰੋਕਾਰਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
3. ਵੱਖ-ਵੱਖ ਕਾਵਿ ਸੰਗ੍ਰਿਹਾਂ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਕਾਵਿ ਅਧਿਐਨ ਦੀ ਸੂਝ ਅਤੇ ਸਮਝ ਪੈਦਾ ਹੋਵੇਗੀ।
4. ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਕਵਿਤਾ ਨੂੰ ਪੜ੍ਹਨ ਤੇ ਸਮਝਣ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸ਼ਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸੰਬੰਧਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ

ਕਾਗਜ਼ ਤੇ ਕੈਨਵਸ
ਨਾਗਮਣੀ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ

ਯੂਨਿਟ ਤੀਸਰਾ

ਸਿਵ ਕੁਮਾਰ

ਲੁਣਾ

ਯੂਨਿਟ ਚੋਬਾ

ਸੁਰਜੀਤ ਪਾਤਰ

ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ

ਸੁਰਜਮੀਨ

ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਅਮਰੀਕ ਸਿੰਘ ਪੂਨੀ (ਸੰਪਾ.) ਸ਼ਿਵ ਕੁਮਾਰ ਰਚਨਾ ਸੰਸਾਰ ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ
2. ਅੰਮ੍ਰਿਤਪਾਲ ਕੌਰ(ਸੰਪਾ.) ਵੀਹਵੀਂ ਸਦੀ ਦੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2005
3. ਸੁਹਿੰਦਰਬੀਰ ਸ਼ਿਵ ਕੁਮਾਰ : ਜੀਵਨ ਤੇ ਰਚਨਾ ਵਾਰਿਸ ਸ਼ਾਹ ਫਾਊਂਡੇਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ
4. ਸੁਖਦੇਵ ਸਿੰਘ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਕਾਵਿ ਸ਼ਾਸਤਰ ਆਰਸੀ ਪਬਲਿਸ਼ਰਜ਼, ਦਿੱਲੀ
5. -ਉਹੀ- ਕਾਵਿ ਸਰੋਕਾਰ ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2006
6. ਸਤਿੰਦਰ ਸਿੰਘ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਾਵਿ ਰੂਪ ਅਧਿਐਨ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ
7. ਹਰਜੀਤ ਕੌਰ ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਕਾਵਿ : ਇੱਕ ਅਧਿਐਨ ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ, 1984
8. ਕਰਮਜੀਤ ਸਿੰਘ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਾਵਿ-ਧਾਰਾਵਾਂ ਦੇ ਵਿਚਾਰਧਾਰਾਈ ਆਧਾਰ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ
9. ਜਗਜੀਵਨ ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ : ਪੁਨਰ ਮੁਲਾਂਕਣ ਸੁੰਦਰ ਦਾਸ ਐਂਡ ਸੰਨਜ਼, ਅੰਮ੍ਰਿਤਸਰ, 1974
10. ਜਸਵਿੰਦਰ ਸਿੰਘ ਨਵੀਂ ਪੰਜਾਬੀ ਕਵਿਤਾ ਪਛਾਣ ਚਿੰਨ੍ਹ ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ
11. ਜੀਤ ਸਿੰਘ ਸੀਤਲ ਸ਼ਿਵ ਕੁਮਾਰ ਬਟਾਲਵੀ (ਮੋਨੋਗ੍ਰਾਫ) ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
12. ਰਤਨ ਸਿੰਘ ਜੱਗੀ ਖੋਜ ਪਤ੍ਰਿਕਾ (ਆਧੁਨਿਕ ਕਾਵਿ ਅੰਕ) ਅੰਕ 22 ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1998
13. ਰਜਿੰਦਰ ਸਿੰਘ ਭੱਟੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਾਵਿ ਸੰਵੇਦਨਾ ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ
14. -ਉਹੀ- ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਾਵਿ ਦਾ ਸੁਹਜ ਸ਼ਾਸਤਰੀ ਪਰਿਪੇਖ ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ
15. ਰਾਜਿੰਦਰ ਪਾਲ ਸਿੰਘ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਇਤਿਹਾਸ
16. ਯੋਗਰਾਜ ਸੁਰਜੀਤ ਪਾਤਰ (ਸੰਪਾ.) ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ
17. ਕਮਲਪ੍ਰੀਤ ਸਿੱਧੂ ਸੁਰਜੀਤ ਪਾਤਰ

Mapping Matrix of Course MA/PUN/4/CC12

Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.5	3	2.5	2.75	2.25	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PS O 1	PS O 2	PSO 3	PSO 4	PS O5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.5	2.75	2.25	3	3	3	3	2.25	3	3

MA/PUN/4/CC13
ਪੇਪਰ ਇਕੱਤੀਵਾਂ
ਲੋਕਧਾਰਾ ਅਤੇ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਚਾਰ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਟਾਪਿਕਾਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਲੋਕਧਾਰਾ, ਲੋਕਧਾਰਾ ਸ਼ਾਸਤਰ ਅਤੇ ਲੋਕਧਾਰਾ ਅਧਿਐਨ ਆਦਿ ਸੰਕਲਪਾਂ ਦੀ ਸਿਧਾਂਤਕ ਸੂਝ ਪ੍ਰਦਾਨ ਕਰਨਾ।
- ਪੰਜਾਬੀ ਲੋਕ ਵਿਰਸੇ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcome)

- 1 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਦੀ ਅਮੀਰ ਵਿਰਾਸਤ ਅਤੇ ਇਸਦੇ ਵਿਸ਼ਾਲ ਖੇਤਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 2 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਲੋਕਧਾਰਾ, ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਅਤੇ ਸਭਿਆਚਾਰ ਵਿਚਲੀ ਸਿਧਾਂਤਕ ਵੱਖਰਤਾ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
- 3 ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਦੀਆਂ ਪ੍ਰਮੁੱਖ ਵਿਧਾਵਾਂ ਦੇ ਅਧਿਐਨ ਦੇ ਜ਼ਰੀਏ ਪੰਜਾਬੀ ਲੋਕ ਮਨ ਨੂੰ ਸਮਝਣ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੋਵੇਗੀ।
- 4 ਪੰਜਾਬੀ ਲੋਕਧਾਰਾਈ ਸਮੱਗਰੀ ਦੀ ਪੰਜਾਬੀ ਜਨ-ਜੀਵਨ ਵਿੱਚ ਅਹਿਮੀਅਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ.

- (ੳ) ਲੋਕਧਾਰਾ : ਪ੍ਰਕ੍ਰਿਤੀ, ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਖੇਤਰ
- (ਅ) ਲੋਕਧਾਰਾ ਅਧਿਐਨ ਦ੍ਰਿਸ਼ਟੀਆਂ
- (ੲ) ਲੋਕਧਾਰਾ, ਲੋਕ ਸਾਹਿਤ ਅਤੇ ਵਿਸ਼ਿਸ਼ਟ ਸਾਹਿਤ

ਯੂਨਿਟ ਦੂਸਰਾ

- (ੳ) ਲੋਕਧਾਰਾ ਦੀਆਂ ਵਿਭਿੰਨ ਪ੍ਰਗਟਾਅ ਵਿਧੀਆਂ (ਲੋਕ ਗੀਤ, ਲੋਕ ਕਥਾ, ਲੋਕ ਵਿਸ਼.ਵਾਸ, ਰੀਤੀ ਰਿਵਾਜ, ਲੋਕ ਨਾਟਕ, ਲੋਕ ਧਰਮ, ਲੋਕ ਕਲਾਵਾਂ ਅਤੇ ਲੋਕ ਨ੍ਰਿਤ)
- (ਅ) ਵਿਸ਼ਵ ਦੇ ਪ੍ਰਸਿੱਧ ਲੋਕਧਾਰਾ ਸ਼ਾਸਤਰੀਆਂ ਜਿਵੇਂ ਰਿਚਰਡਸ ਡਾਟਸਨ, ਵੀ. ਪ੍ਰਾਪ ਅਤੇ ਐਲਨ ਡੰਡੀਸ ਦਾ ਲੋਕਧਾਰਾ ਦੇ ਖੇਤਰ ਵਿੱਚ ਯੋਗਦਾਨ

ਯੂਨਿਟ ਤੀਸਰਾ

(ੳ) ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ : ਸੰਗ੍ਰਿਹ, ਸੰਪਾਦਨ ਅਤੇ ਸਮੀਖਿਆ

(ਅ) ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਸੰਗ੍ਰਿਹ, ਸੰਪਾਦਨ ਅਤੇ ਸਮੀਖਿਆ ਵਿੱਚ ਅੰਗਰੇਜ਼ੀ ਵਿਦਵਾਨਾਂ ਦਾ ਯੋਗਦਾਨ

ਯੂਨਿਟ ਚੌਥਾ

(ੳ) ਪੰਜਾਬੀ ਲੋਕ ਗੀਤ, ਲੋਕ ਕਥਾ, ਲੋਕ ਵਿਸ਼ਵਾਸ, ਰੀਤੀ ਰਿਵਾਜ, ਲੋਕ ਨਾਟਕ, ਲੋਕ ਧਰਮ, ਲੋਕ ਕਲਾਵਾਂ ਅਤੇ ਲੋਕ ਨ੍ਰਿਤ ਦਾ ਵਿਸਤਰਿਤ ਅਧਿਐਨ

(ਅ) ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਸੰਗ੍ਰਿਹ, ਸੰਪਾਦਨ ਅਤੇ ਸਮੀਖਿਆ ਵਿੱਚ ਹੇਠ ਲਿਖੇ ਪੰਜਾਬੀ ਵਿਦਵਾਨਾਂ ਦੀ ਦੇਣ

1. ਆਰ. ਸੀ. ਟੈਂਪਲ 2. ਦਵਿੰਦਰ ਸਤਿਆਰਥੀ 3. ਵਣਜਾਰਾ ਬੇਦੀ 4. ਨਾਹਰ ਸਿੰਘ

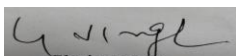
ਸਹਾਇਕ ਪੁਸਤਕਾਂ

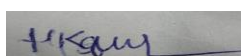
1. ਸੋਹਿੰਦਰ ਸਿੰਘ ਬੇਦੀ ਪੰਜਾਬ ਦੀ ਲੋਕਧਾਰਾ
ਨੈਸ਼ਨਲ ਬੁੱਕ ਟ੍ਰੱਸਟ, ਇੰਡੀਆ, 1999
2. -ਉਹੀ- ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਵਿਸ਼.ਵਕੋਸ਼.
ਨੈਸ਼ਨਲ ਬੁੱਕ ਸ.ਸ਼ਾਪ, ਦਿੱਲੀ
3. ਕਰਮਜੀਤ ਸਿੰਘ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਸਮੀਖਿਆ
ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ, 2012
4. -ਉਹੀ- ਲੋਕਗੀਤਾਂ ਦੀ ਪੇੜ
ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ, 2002
5. ਕਰਨੈਲ ਸਿੰਘ ਬਿੰਦ ਲੋਕਯਾਨ ਅਧਿਐਨ
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ
6. -ਉਹੀ- ਪੰਜਾਬ ਦਾ ਲੋਕ ਵਿਰਸਾ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1996
7. -ਉਹੀ- ਲੋਕਯਾਨ ਅਤੇ ਮੱਧਕਾਲੀਨ ਪੰਜਾਬੀ ਸਾਹਿਤ
ਰਵੀ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ, 2011
8. ਕੰਵਰਜੀਤ ਸਿੰਘ ਕੰਗ ਪੰਜਾਬ ਦੇ ਕੰਧ ਚਿੱਤਰ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1996
9. ਗੁਰਨਾਮ ਸਿੰਘ ਪੰਜਾਬ ਦੇ ਲੋਕ ਨਾਚ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1996
10. ਗੁਰਮੀਤ ਸਿੰਘ ਲੋਕਧਾਰਾ : ਪਰੰਪਰਾ ਤੇ ਆਧੁਨਿਕਤਾ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ
11. ਜਸਵਿੰਦਰ ਸਿੰਘ ਪੰਜਾਬੀ ਲੋਕ ਸਾਹਿਤ ਸ.ਸ਼ਾਸਤਰ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2003
12. ਜਗਦੀਸ਼ ਸਿੰਘ ਸਾਡੇ ਰਸਮ ਰਿਵਾਜ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1996
13. ਜੀਤ ਸਿੰਘ ਜੋਸ਼ੀ ਲੋਕਧਾਰਾ ਤੇ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ
ਵਾਰਿਸ ਸ਼ਾਫ ਫਾਊਂਡੇਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ
14. ਜੋਗਿੰਦਰ ਸਿੰਘ ਕੈਰੋ ਲੋਕਯਾਨ ਸ਼ਾਸਤਰ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ

15. -ਉਹੀ- ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਲੋਕਧਾਰਾਈ ਪਿਛੋਕੜ
ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ, 2006
16. ਨਾਹਰ ਸਿੰਘ ਲੋਕ-ਕਾਵਿ ਦੀ ਸਿਰਜਣ ਪ੍ਰਕ੍ਰਿਆ
ਲੋਕਾਇਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ
17. ਭੁਪਿੰਦਰ ਸਿੰਘ ਖਹਿਰਾ ਲੋਕਧਾਰਾ ਭਾਸ਼ਾ ਅਤੇ ਸਭਿਆਚਾਰ
ਪੈਪਸੂ ਬੁੱਕ ਡਿਪੂ, ਪਟਿਆਲਾ, 1998
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ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ, 1987
19. ਰਾਜਿੰਦਰ ਸਿੰਘ ਲਾਂਬਾ (ਸੰਪਾ.) ਖੋਜ ਪਤ੍ਰਿਕਾ (ਲੋਕਧਾਰਾ ਵਿਸ਼ੇਸ਼ ਅੰਕ)
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1995
20. ਰਵਿੰਦਰ ਭੱਠਲ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਅਤੇ ਲੋਕਧਾਰਾ
ਲਾਭ ਸਿੰਘ ਖੀਵਾ ਪੰਜਾਬੀ ਸਾਹਿਤ ਅਕਾਦਮੀ, ਲੁਧਿਆਣਾ, 2003
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Inc. Englewood Cliffs, Prentic Hall, N.J., 1965
22. Alan Dundes Essays in Folklore
Folklore institute, Kailash Puri, Meerut, 1978
23. Pierre Maranda (Ed.) Mythology
Penguin Education, England, 1973
24. Vladimir Propp Morphology of Folktales University of Texas Press, Austin, 1968

Matrix of Course MA/PUN/4/CC13

Table 1: CO-PO Matrix for the Course





CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	2	3	3	3
LO2	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	2	3
LO4	3	3	3	3	3	3	3	3
Average	3	3	3	2.5	2.5	3	2.75	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PS O 1	PS O 2	PSO 3	PSO 4	PS O5
LO1	3	3	3	2	2	3	3	3	3	3	3	3	3
LO2	3	3	3	3	3	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	2	3	3	3	3	3	3
LO4	3	3	3	3	3	3	3	3	3	3	3	3	3
Average	3	3	3	2.5	2.5	3	2.75	3	3	3	3	3	3

MA/PUN/4/CC14

ਪੇਪਰ ਬੱਤੀਵਾਂ

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ

ਕੁੱਲ ਅੰਕ : 100

(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)

ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।

2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।

2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।

3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objectives)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਵਿਸ਼ੇਸ਼ ਸੰਰਚਨਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀ ਬੁਨਿਆਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- ਭਾਸ਼ਾ ਵਿਗਿਆਨਕ ਦ੍ਰਿਸ਼ਟੀ ਤੋਂ ਕਿਸੇ ਵੀ ਭਾਸ਼ਾ ਦੀ ਪ੍ਰਕ੍ਰਿਤੀ ਨੂੰ ਸਮਝਣ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।
- ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੇ ਸਬੰਧ ਨੂੰ ਸਮਝਣ ਸੰਬੰਧੀ ਸਮਝ ਪੈਦਾ ਹੋਵੇਗੀ।
- ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀ ਬਾਕੀ ਭਾਰਤੀ ਲਿਪੀਆਂ ਨਾਲ ਤੁਲਨਾ ਕਰਦੇ ਹੋਏ ਵਿਸ਼ੇਸ਼ ਅਤੇ ਮਹੱਤਵਪੂਰਨ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- ਵਿਦਿਆਰਥੀ ਨੂੰ ਪੰਜਾਬੀ ਧੁਨੀ ਪ੍ਰਬੰਧ ਬਾਰੇ ਗਿਆਨ ਹਾਸਿਲ ਹੋਵੇਗਾ।

ਯੂਨਿਟ ਪਹਿਲਾ

(ੳ) ਧੁਨੀ ਵਿਗਿਆਨ ਅਤੇ ਪੰਜਾਬੀ ਧੁਨੀ ਪ੍ਰਬੰਧ

(ਅ) ਭਾਵਾਂਸ਼, ਭਾਵਾਂਸ਼ ਪ੍ਰਬੰਧ ਅਤੇ ਪੰਜਾਬੀ ਭਾਵਾਂਸ਼ ਪ੍ਰਬੰਧ

(ੲ) ਭਾਸ਼ਾ, ਸਾਹਿਤ, ਸਮਾਜ ਅਤੇ ਸਭਿਆਚਾਰ

ਯੂਨਿਟ ਦੂਸਰਾ

(ੳ) ਵਾਕ, ਵਾਕ ਵਿਗਿਆਨ ਅਤੇ ਪੰਜਾਬੀ ਵਾਕ ਵਿਗਿਆਨ

(ਅ) ਅਰਥ, ਅਰਥ ਪ੍ਰਬੰਧ ਅਤੇ ਪੰਜਾਬੀ ਅਰਥ ਪ੍ਰਬੰਧ

(ੲ) ਸ਼ਬਦ ਰਚਨਾ ਅਤੇ ਪੰਜਾਬੀ ਸ਼ਬਦ

ਯੂਨਿਟ ਤੀਸਰਾ

(ੳ) ਸਮਾਜ ਭਾਸ਼ਾ ਵਿਗਿਆਨ- ਮੂਲ ਸੰਕਲਪ

(ਅ) ਭਾਸ਼ਾ ਰਜਿਸਟਰ, ਪਿਜਿਨ, ਕਰਿਓਲ, ਵਿਅਕਤੀ ਭਾਸ਼ਾ।

ਯੂਨਿਟ ਚੌਥਾ

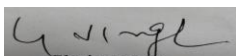
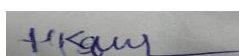
(ੳ) ਗੁਰਮੁਖੀ ਲਿਪੀ ਦਾ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ

- (ਅ) ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ
 (ੲ) ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ
 (ਸ) ਪੰਜਾਬੀ ਸੂਰ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਸੁਖਵਿੰਦਰ ਸਿੰਘ ਸੰਘਾ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿਗਿਆਨ
ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਕਾਦਮੀ, ਜਲੰਧਰ, 1999
2. ਸੁਰਿੰਦਰ ਸਿੰਘ ਖਹਿਰਾ (ਸੰਪਾ.) ਪੰਜਾਬੀ ਭਾਸ਼ਾ : ਵਿਆਕਰਣ ਅਤੇ ਬਣਤਰ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2001
3. ਹਰਕੀਰਤ ਸਿੰਘ ਅਤੇ ਉੱਜਲ ਸਿੰਘ ਬਾਹਰੀ ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ
ਬਾਹਰੀ ਪਬਲੀਕੇਸ਼ਨ, ਦਿੱਲੀ, 1973
4. ਹਰਕੀਰਤ ਸਿੰਘ ਭਾਸ਼ਾ ਅਤੇ ਭਾਸ਼ਾ ਵਿਗਿਆਨ
ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ, 1985
5. -ਉਹੀ- ਸਾਡੀ ਭਾਸ਼ਾ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
6. ਕਾਲਾ ਸਿੰਘ ਬੇਦੀ ਲਿਪੀ ਦਾ ਵਿਕਾਸ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1995
7. ਦੁਨੀ ਚੰਦ੍ਰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਵਿਕਾਸ
ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ, 1959
8. -ਉਹੀ- ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਵਿਆਕਰਣ
ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ, 1964
9. ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼ਨ. ਸਿੰਘ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਸਰੋਤ ਅਤੇ ਬਣਤਰ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1988
10. ਬਲਦੇਵ ਸਿੰਘ ਚੀਮਾ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਅਤੇ ਵਿਆਕਰਣ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2000
11. ਭੁਪਿੰਦਰ ਸਿੰਘ ਖਹਿਰਾ ਨਵੀਨ ਭਾਸ਼ਾ ਵਿਗਿਆਨ
ਪੈਪਸੂ ਬੁੱਕ ਡਿਪੂ, ਪਟਿਆਲਾ, 1999
12. ਜੀ. ਬੀ. ਸਿੰਘ ਗੁਰਮੁਖੀ ਲਿਪੀ ਦਾ ਜਨਮ ਤੇ ਵਿਕਾਸ
ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ, 1960

Mapping Matrix of Course MA/PUN/4/CC14
Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	3	3	3
LO2	3	3	3	2	3	3	3	3
LO3	3	3	3	3	3	3	3	3
LO4	3	3	3	3	3	3	3	3
Average	3	3	3	2.75	2.75	3	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PS O 1	PS O 2	PSO 3	PSO 4	PS O5
LO1	3	3	3	2	3	3	3	3	3	3	3	3	3
LO2	3	3	3	2	3	3	3	3	3	3	3	3	3
LO3	3	3	3	3	3	3	3	3	3	3	3	3	3
LO4	3	3	3	3	2	3	3	3	3	3	3	3	3
Average	3	3	3	2.75	2.75	3	3	3	3	3	3	3	3

MA/PUN/4/DSC11

ਪੇਪਰ ਤੇਜ਼ੀਵਾਂ
ਪੰਜਾਬੀ ਇਕਾਂਗੀ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ :70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪੇਪਰ ਸੈੱਟਰ ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇਗਾ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਕਾਂਗੀ ਦੇ ਸਿਧਾਂਤਕ ਚੌਖਟੇ, ਪੰਜਾਬੀ ਇਕਾਂਗੀ ਦੇ ਇਤਿਹਾਸ, ਪ੍ਰਵਿਰਤੀਆਂ ਅਤੇ ਪ੍ਰਮੁੱਖ ਪੰਜਾਬੀ ਇਕਾਂਗੀਕਾਰਾਂ ਦੇ ਸਾਹਿਤਕ ਯੋਗਦਾਨ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- 1 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਇਕਾਂਗੀ ਦੇ ਪ੍ਰਮੁੱਖ ਝੁਕਾਵਾਂ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 2 ਵੱਖ-ਵੱਖ ਇਕਾਂਗੀਕਾਰਾਂ ਦੀਆਂ ਨਾਟ ਰਚਨਾਵਾਂ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਨਾਟ ਅਧਿਐਨ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋਵੇਗੀ।
- 3 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਇਕਾਂਗੀ ਦੀਆਂ ਪ੍ਰਮੁੱਖ ਪ੍ਰਵਿਰਤੀਆਂ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 4 ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਇਕਾਂਗੀ ਨੂੰ ਪੜ੍ਹਨ ਅਤੇ ਖੇਡਣ ਦੀ ਰੁਚੀ ਪੈਦਾ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ

ਪਾਠ ਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸਬੰਧਿਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਬਲਵੰਤ ਗਾਰਗੀ

ਕੁਆਰੀ ਟੀਸੀ

ਨਵਯੁੱਗ ਪਬਲਿਸ਼ਰ, ਦਿੱਲੀ

ਯੂਨਿਟ ਤੀਸਰਾ

ਅਜਮੇਰ ਸਿੰਘ ਔਲਖ ਇਸ਼ਕ ਬਾਝ ਨਮਾਜ਼. ਦਾ ਹੱਜ ਨਾਰੀ
ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ, 2009

ਯੂਨਿਟ ਚੌਥਾ

ਗੁਰਸ਼ਰਨ ਸਿੰਘ ਨਵਾਂ ਜਨਮ
ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ ਲੁਧਿਆਣਾ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਅਮਰਜੀਤ ਸਿੰਘ ਪੰਜ ਨਾਟਕਕਾਰ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ
2. ਸਤੀਸ਼ ਕੁਮਾਰ ਵਰਮਾ ਪੰਜਾਬੀ ਨਾਟਕ ਦਾ ਇਤਿਹਾਸ
ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ
3. -ਉਹੀ- ਪੰਜਾਬੀ ਨਾਟ ਚਿੰਤਨ
ਜੈਨ ਸੰਨੜ ਪ੍ਰਕਾਸ਼ਨ ਸਰਹਿੰਦ, 1989
4. -ਉਹੀ- ਪੰਜਾਬੀ ਨਾਟਕ ਦਾ ਇਤਿਹਾਸ
ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ, 2005
5. ਸੁਖਦੇਵ ਸਿੰਘ ਅਜਮੇਰ ਔਲਖ ਦੀ ਨਾਟ-ਭੂਮੀ
ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ, 2002
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ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ, 2007
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14. ਸਮਦਰਸ਼ੀ, ਬਲਵੰਤ ਗਾਰਗੀ ਵਿਸ਼ੇਸ਼ ਅੰਕ, ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ, 2003
15. ਵਰਿਆਮ ਮਸਤ ਰੰਗ ਮੰਚ ਦਾ ਬਾਦਸ਼ਾਹ ਬਲਵੰਤ ਗਾਰਗੀ, ਨਵਯੁੱਗ ਪਬਲੀਸ਼ਰਜ਼, ਦਿੱਲੀ, 2019

Mapping Matrix for the Course MA/PUN/2/DSC11

Table 2: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	3	3	3	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	3	3	2	3	3	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.5	3	2.5	2.75	2.75	3	3

Table 3: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	3	3	3	3	3	2	3	3
LO3	3	3	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.5	2.75	2.75	3	3	3	3	2.25	3	3

MA/PUN/4/DSC12

ਪੇਪਰ ਚੋਂਤੀਵਾਂ
ਪੰਜਾਬੀ ਕਹਾਣੀ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਕਹਾਣੀ ਦੇ ਸਿਧਾਂਤਕ ਚੌਖਟੇ, ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੇ ਇਤਿਹਾਸ, ਪ੍ਰਵਿਰਤੀਆਂ ਅਤੇ ਪ੍ਰਮੁੱਖ ਪੰਜਾਬੀ ਕਹਾਣੀਕਾਰਾਂ ਦੇ ਸਾਹਿਤਕ ਯੋਗਦਾਨ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- 1 ਕੁਝ ਵਿਸ਼ੇਸ਼ ਕਹਾਣੀਕਾਰਾਂ ਦੀਆਂ ਕਹਾਣੀਆਂ ਦੀ ਪੜ੍ਹਤ ਦੁਆਰਾ ਕਹਾਣੀ ਟੈਕਸਟ ਦੇ ਵਿਹਾਰਕ ਅਧਿਐਨ ਦੀ ਯੋਗਤਾ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 2 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੇ ਇਤਿਹਾਸਕ ਵਿਕਾਸ ਅਤੇ ਪ੍ਰਮੁੱਖ ਝੁਕਾਵਾਂ/ ਪ੍ਰਵਿਰਤੀਆਂ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 3 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੇ ਵਿਧਾਗਤ ਸਰੂਪ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 4 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੇ ਵਿਸ਼ੇਗਤ ਸਰੋਕਾਰਾਂ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ

ਪਾਠਕ੍ਰਮ ਵਿੱਚ ਪ੍ਰਾਪਤ ਪੁਸਤਕਾਂ ਦੇ ਲੇਖਕਾਂ ਦੇ ਰਚਨਾ ਕਾਲ ਵਿੱਚ ਪ੍ਰਾਪਤ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ, ਪ੍ਰਵਿਰਤੀਆਂ, ਵਿਕਾਸ, ਵਿਭਿੰਨ ਲੇਖਕਾਂ ਤੇ ਧਾਰਾਵਾਂ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਨਾਲ ਸੰਬੰਧਿਤ ਪ੍ਰਸ਼ਨ।

ਯੂਨਿਟ ਦੂਸਰਾ

ਕੁਲਵੰਤ ਸਿੰਘ ਵਿਰਕ ਨਵੇਂ ਲੋਕ
ਆਰਸੀ ਪਬਲਿਸਰਜ਼, ਦਿੱਲੀ

ਯੂਨਿਟ ਤੀਸਰਾ

ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼ ਕੁਝ ਅਣਕਿਹਾ ਵੀ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ

ਯੂਨਿਟ ਚੌਥਾ

ਮਨਮੋਹਨ ਬਾਵਾ

ਕਾਲਾ ਕਬੂਤਰ

ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ, 2003

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

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ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1995
2. -ਉਹੀ- ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੇ ਲੱਛਣ ਅਤੇ ਪਰਿਵਰਤਨ
ਪੁਸ਼ਪ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ, 1970
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ਪੰਜਾਬੀ ਰਾਈਟਰਜ਼ ਕੋਆਪਰੇਟਿਵ ਸੁਸਾਇਟੀ ਲਿਮ, ਲੁਧਿਆਣਾ, 1988
4. ਗੁਰਮੁਖ ਸਿੰਘ ਜੀਤ ਸਮਕਾਲੀ ਪੰਜਾਬੀ ਕਹਾਣੀ
ਪੰਜਾਬੀ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ
5. ਜੋਗਿੰਦਰ ਸਿੰਘ ਨਹਿਰੂ ਕਹਾਣੀ ਦੀ ਵਿਧਾ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ
6. ਜੋਗਿੰਦਰ ਸਿੰਘ ਰਾਹੀ ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼ ਦੀਆਂ ਕਹਾਣੀਆਂ
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ, 2007
7. ਜੋਗਿੰਦਰ ਸਿੰਘ ਰਾਹੀ ਪੰਜਾਬੀ ਕਹਾਣੀ ਦਾ ਸਾਰ ਤੇ ਸ਼ਾਸਤ੍ਰ (ਭਾਗ ਪਹਿਲਾ ਤੇ
ਦੂਜਾ)
ਸਿੰਘ ਬ੍ਰਦਰਜ਼, ਅੰਮ੍ਰਿਤਸਰ, 2011
- ਅਤੇ ਰਮਿੰਦਰ ਕੌਰ ਪੰਜਾਬੀ ਕਹਾਣੀ ਅਧਿਐਨ
8. ਟੀ. ਆਰ. ਵਿਨੋਦ ਰਵੀ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ, 1988
9. ਧਨਵੰਤ ਕੌਰ ਪੰਜਾਬੀ ਕਹਾਣੀ : ਬਿਰਤਾਂਤ ਸ਼ਾਸਤਰੀ ਅਧਿਐਨ
ਆਰਸੀ ਪਬਲੀਕੇਸ਼ਨ, ਦਿੱਲੀ
10. ਬਲਦੇਵ ਸਿੰਘ ਧਾਲੀਵਾਲ ਪੰਜਾਬੀ ਕਹਾਣੀ ਦਾ ਇਤਿਹਾਸ
ਪੰਜਾਬੀ ਅਕਾਦਮੀ, ਦਿੱਲੀ, 2005
11. -ਉਹੀ- ਕਹਾਣੀ ਸ਼ਾਸਤਰ ਅਤੇ ਪੰਜਾਬੀ ਕਹਾਣੀ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2013
12. ਪਰਮਜੀਤ ਕੌਰ ਸਿੱਧੂ ਪੰਜਾਬੀ ਕਹਾਣੀ ਵਿੱਚ ਦਲਿਤ ਸਰੋਕਾਰ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2010
13. ਰਜਨੀਸ਼ ਬਹਾਦਰ ਸਿੰਘ (ਸੰਪਾ.) ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼. ਦੀਆਂ ਕਹਾਣੀਆਂ ਦਾ ਪਾਠਗਤ ਵਿਸ਼ਲੇਸ਼ਣ
ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ, 2007
14. ਰਜਨੀਸ਼ ਬਹਾਦਰ ਸਿੰਘ ਮਨਮੋਹਨ ਬਾਵਾ ਦਾ ਸ਼ਬਦ ਸੰਸਾਰ
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15. ਰਾਜਿੰਦਰ ਸਿੰਘ (ਸੰਪਾ.) ਕੁਲਵੰਤ ਸਿੰਘ ਵਿਰਕ ਦਾ ਬਿਰਤਾਂਤ ਸ਼ਾਸਤਰ
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16. ਵਰਿਆਮ ਸਿੰਘ ਸੰਧੂ ਕੁਲਵੰਤ ਸਿੰਘ ਵਿਰਕ ਦਾ ਕਹਾਣੀ ਸੰਸਾਰ
ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ, 1979
17. -ਉਹੀ- ਪੰਜਾਬੀ ਕਹਾਣੀ ਆਲੋਚਨਾ : ਰੂਪ ਤੇ ਰੁਝਾਨ

Mapping Matrix for the Course MA/PUN/4/DSC12

Table 2: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	3	3	3	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	3	3	2	3	3	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.5	3	2.5	2.75	2.75	3	3

Table 3: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	3	3	3	3	3	2	3	3
LO3	3	3	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.5	2.75	2.75	3	3	3	3	2.25	3	3

ਪੇਪਰ ਪੈਂਤੀਵਾਂ
ਖੋਜ ਵਿਧੀ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ ਨ.ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪੇਪਰ ਸੈੱਟਰ ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇਗਾ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਪੰਜ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਟਾਪਿਕਾਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਖੋਜ ਲਈ ਰੁਚੀ ਪੈਦਾ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- 1 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਖੋਜ ਵਿਧੀ ਦੇ ਸਰੂਪ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 2 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਖੋਜ ਦੇ ਪ੍ਰਕਾਰ: ਸਿਧਾਂਤਕ ਅਤੇ ਇਤਿਹਾਸ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 3 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਖੋਜ ਸਰੂਪ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 4 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਖੋਜ ਦੇ ਕ੍ਰਮਿਕ ਵਿਕਾਸ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।

ਯੂਨਿਟ ਪਹਿਲਾ :

ਖੋਜ ਵਿਧੀ: ਪ੍ਰਕਿਰਤੀ, ਪ੍ਰਕਾਰਜ ਅਤੇ ਮਹੱਤਵ

ਖੋਜ ਦੇ ਪ੍ਰਕਾਰ: ਸਿਧਾਂਤਕ, ਇਤਿਹਾਸਿਕ, ਭਾਸ਼ਾ ਵਿਗਿਆਨਿਕ, ਤੁਲਨਾਤਮਕ, ਵਿਖਿਆਤਮਕ, ਪਾਠ ਨਿਰਣਾਮੁਲਕ

ਖੋਜ ਦੀਆਂ ਭਿੰਨ-ਭਿੰਨ ਵਿਧੀਆਂ: ਆਗਮਨਾਤਮਕ ਵਿਧੀ, ਨਿਗਮਨਾਤਮਕ ਵਿਧੀ

ਯੂਨਿਟ ਦੂਸਰਾ :

ਖੋਜ ਪ੍ਰਕਿਰਿਆ: ਖੋਜ ਵਿਸ਼ੇ ਦੀ ਚੋਣ, ਰੂਪ ਰੇਖਾ ਦੀ ਤਿਆਰੀ, ਖੋਜ ਸੰਦ, ਆਧਾਰ ਸਮੱਗਰੀ ਦਾ ਇੱਕਤਰੀਕਰਣ, ਖੇਤਰੀ

ਖੋਜ, ਖੇਤਰੀ ਖੋਜ ਦੇ ਸੰਦ ਅਤੇ ਪ੍ਰਕਿਰਿਆ, ਖੋਜ ਦੀ ਪੇਸ਼ਕਾਰੀ, ਸਟਾਈਲ ਸੀਟ, ਹਵਾਲੇ ਪੈਰ ਟਿੱਪਣੀਆਂ, ਸਿੱਤੋ ਅਤੇ ਸੂਤਰੀਕਰਨ, ਪੁਸਤਕਾਵਲੀ, ਪਰਿਸਿਸਟ ਤੇ ਕ੍ਰਮ ਸੂਚੀ।

ਯੂਨਿਟ ਤੀਜਾ

ਸੂਚਨਾ ਤਕਨਾਲੋਜੀ ਅਤੇ ਖੋਜ ਕਾਰਜ ਵਿੱਚ ਸੂਚਨਾ ਤਕਨਾਲੋਜੀ ਦੇ ਰੂਪ: ਇੰਨਰਨੈਟ ਅਤੇ ਹੋਰ ਸੋਫਟ-ਸਰੋਤ (ਸੀ ਡੀ) ਆਦਿ

ਇੰਟਰਨੈੱਟ : ਇੱਕ ਖੋਜ ਸਰੋਤ ਵਜੋਂ, ਹਵਾਲੇ ਦੇਣ ਦੀ ਵਿਧੀ, ਇੰਟਰਨੈੱਟ ਉੱਤੇ ਖੋਜ ਸਰੋਤਾਂ ਦੀ ਪ੍ਰਮਾਣਿਕਤਾ

ਯੂਨਿਟ ਚੌਥਾ

ਪੰਜਾਬੀ ਖੋਜ ਦਾ ਕ੍ਰਮਿਕ ਵਿਕਾਸ

ੳ) ਉਪਾਧੀਮੂਲਕ ਖੋਜ

ਅ) ਉਪਾਧੀਮੂਲਕ ਖੋਜ

ਪੁਸਤਕ ਸੂਚੀ

ਪਿਆਰ ਸਿੰਘ (ਡਾ)
ਕੇਸਰ ਸਿੰਘ 'ਕੇਸਰ'

ਖੋਜ ਸਿੱਧਾਂਤ ਤੇ ਵਿਵਹਾਰ, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 201
ਸਾਹਿਤ ਖੋਜ ਅਤੇ ਸਾਹਿਤ ਆਲੋਚਨਾ, ਮਦਾਨ ਪਬਲੀਕੇਸ਼ਨਜ਼,
ਪਟਿਆਲਾ, 2008

Mapping Matrix of Course MA/PUN/4/DSC13

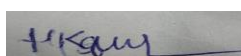
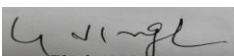


Table 1: CO-PO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	3	3	3	3	2	3	3
LO4	3	3	3	2	2	3	3	3
Average	3	3	3	2.75	2.75	2.25	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	2.75	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	3	3	3
LO3	3	3	3	3	3	3	3	3	3	3	3	3	3
LO4	3	3	3	2	2	3	3	3	3	3	2	2	3
Average	3	3	3	2.75	2.75	2.5	3	3	3	3	2.50	2.75	3

Paper Thirty-Six
 Anuvad ate Anuvad Kala
 MA/PUN/4/DSC14
 पेपर त्र्तीटां

ਅਨੁਵਾਦ ਅਤੇ ਅਨੁਵਾਦ ਕਲਾ

ਕੁੱਲ ਅੰਕ : 100
(ਪੇਪਰ : 70, ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 30)
ਸਮਾਂ : 3 ਘੰਟੇ

ਨੋਟ :

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਉੱਤੇ ਲਿਖਿਆ ਜਾਵੇਗਾ :

1. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਨੇ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਇੱਕ ਸੁਆਲ ਕਰਨਾ ਹੈ। ਕੁੱਲ ਪੰਜ ਸੁਆਲ ਕਰਨੇ ਹਨ।
2. 4 ਯੂਨਿਟ ਵਿੱਚ ਹਰ ਪ੍ਰਸ਼ਨ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਿਦਾਇਤਾਂ :

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ ਨੌਂ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ ਇੱਕ ਵਿੱਚ ਚਾਰ ਛੋਟੇ ਸੁਆਲ ਪੁੱਛੇ ਜਾਣਗੇ ਜੋ ਕਿ ਸਿਲੇਬਸ ਵਿੱਚ ਦਿੱਤੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਹੋਣਗੇ। ਹਰ ਸੁਆਲ ਦਾ ਜੁਆਬ ਘੱਟ ਤੋਂ ਘੱਟ ਇੱਕ ਪੰਨੇ ਦਾ ਦੇਣਾ ਹੋਵੇਗਾ। ਇਸ ਸੁਆਲ ਵਿੱਚ ਕੋਈ ਅੰਦਰੂਨੀ ਛੋਟ ਨਹੀਂ ਹੋਵੇਗੀ।
3. ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਜੁਆਬ ਘੱਟੋ ਘੱਟ ਪੰਜ ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।

Note for the paper setter:-

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

ਉਦੇਸ਼ (Course Objective)

- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਅਨੁਵਾਦ, ਸਾਹਿਤਕ ਅਨੁਵਾਦ ਦੇ ਸੰਕਲਪ ਤੋਂ ਜਾਣੂ ਕਰਾਉਂਦੇ ਹੋਏ ਉਸ ਅੰਦਰ ਅਨੁਵਾਦ ਕਰਨ ਦੀ ਰੁਚੀ ਅਤੇ ਸਮਰੱਥਾ ਪੈਦਾ ਕਰਨਾ।

ਸੰਭਾਵਿਤ ਨਤੀਜੇ (Learning Outcomes)

- 1 ਵੱਖ-ਵੱਖ ਅਨੁਸ਼ਾਸਨਾਂ ਵਿੱਚ ਅਨੁਵਾਦ ਦੀ ਵਰਤੋਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 2 ਅਨੁਵਾਦ ਦੀਆਂ ਵਿਧੀਆਂ ਅਤੇ ਸਮੱਸਿਆਵਾਂ ਬਾਰੇ ਵਿਸਤ੍ਰਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਵੇਗੀ।
- 3 ਸਾਹਿਤਕ ਅਨੁਵਾਦ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ ਅਤੇ ਹੱਲ ਬਾਰੇ ਜਾਣੂ ਹੋਵੇਗਾ।
- 4 ਵਰਤਮਾਨ ਦੌਰ ਵਿੱਚ ਅਨੁਵਾਦ ਦੇ ਮਹੱਤਵ ਨੂੰ ਧਿਆਨ ਵਿੱਚ ਰੱਖਦੇ ਹੋਏ ਵਿਦਿਆਰਥੀ ਅਨੁਵਾਦ ਨੂੰ ਕਿੱਤੇ ਦੇ ਤੌਰ 'ਤੇ ਅਪਣਾਉਣ ਦੇ ਕਾਬਲ ਹੋਵੇਗਾ।

ਯੂਨਿਟ ਪਹਿਲਾ

- (ੳ) ਅਨੁਵਾਦ : ਪਰਿਭਾਸ਼ਾ, ਸੰਕਲਪ, ਸਰੂਪ ਤੇ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਅਨੁਵਾਦ ਕਲਾ ਜਾਂ ਵਿਗਿਆਨ
- (ਅ) ਅਨੁਵਾਦ ਦੀਆਂ ਕਿਸਮਾਂ ਅਤੇ ਸ਼ੈਲੀਆਂ
- (ੲ) ਬਹੁਭਾਸ਼ੀ ਸੰਦਰਭ ਵਿੱਚ ਅਨੁਵਾਦ ਦੀ ਲੋੜ, ਮਹੱਤਵ ਅਤੇ ਅਨੁਵਾਦ ਦੀਆਂ ਸੀਮਾਵਾਂ

ਯੂਨਿਟ ਦੂਸਰਾ

- (ੳ) ਅਨੁਵਾਦ ਦੇ ਸੰਦ ਅਤੇ ਅਨੁਵਾਦਕ ਦੇ ਗੁਣ
- (ਅ) ਅਨੁਵਾਦ ਦੀ ਪ੍ਰਕ੍ਰਿਆ: ਸਮੱਗਰੀ ਦੀ ਪੜ੍ਹਤ, ਵਿਸ਼ਲੇਸ਼ਣ, ਭਾਸ਼ਾਈ ਰੂਪਾਂਤਰਣ ਮੂਲ ਟੈਕਸਟ ਨਾਲ ਤੁਲਨਾ
- (ੲ) ਅਨੁਵਾਦ ਪ੍ਰਕ੍ਰਿਆ ਦੇ ਸਿਧਾਂਤ : ਪੀਟਰ ਨਿਊਮਾਰਕ ਦਾ ਸਿਧਾਂਤ, ਨਿਦਾ ਦਾ ਸਿਧਾਂਤ, ਬੈਥਗੇਟਸ ਦਾ ਸਿਧਾਂਤ

ਯੂਨਿਟ ਤੀਸਰਾ

- (ੳ) ਸਾਹਿਤਕ ਅਨੁਵਾਦ : ਅਰਥ, ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਮਹੱਤਵ
- (ਅ) ਸਾਹਿਤਕ ਅਨੁਵਾਦ (ਗਦ ਅਤੇ ਪਦ ਦੇ ਸੰਦਰਭ ਵਿੱਚ) ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ

(ੲ) ਅਖਾਣ, ਮੁਹਾਵਰੇ ਅਤੇ ਲੋਕ ਸਾਹਿਤ ਦੇ ਅਨੁਵਾਦ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ

ਯੂਨਿਟ ਚੌਥਾ

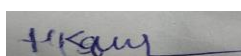
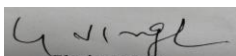
- (ੳ) ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ ਦੀ ਪ੍ਰੰਪਰਾ : ਇਤਿਹਾਸਕ ਪਰਿਪੇਖ
(ਅ) ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿੱਚ ਅਨੁਵਾਦ : ਚੁਣੌਤੀਆਂ ਅਤੇ ਸੰਭਾਵਨਾਵਾਂ
(ੲ) ਪੰਜਾਬੀ ਤੋਂ ਹਿੰਦੀ ਅਤੇ ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਭੋਲਾਨਾਥ ਤਿਵਾੜੀ ਅਨੁਵਾਦ ਵਿਗਿਆਨ
ਕਿਤਾਬਘਰ ਪ੍ਰਕਾਸ਼ਨ, ਨਵੀਂ ਦਿੱਲੀ, 2007
2. ਕੁਮਾਰ, ਸੁਸ਼ੀਲ ਅਨੁਵਾਦ ਦਾ ਸੰਵਾਦ
ਉਡਾਨ ਪਬਲੀਕੇਸ਼ਨ, ਮਾਨਸਾ
2. A. H. Smith (Ed.) Aspects of Translation
Secker & Warburg, London, 1958
3. Edwin Gentzler Contemporary Translation Theories
Routledge, London, 1993
4. Nida and Tabel The Theory and Practice of Translation
J. Brill, Leiden, 1969
5. P. Newmark Approaches to Translation
Pergamon Press, Oxford, 1981
6. Pratima Dave Shastri Fundamental Aspects of Translation
PHI Learning New Delhi
7. Susan Bassnett Translation Studies
Routledge, London

Mapping Matrix of Course MA/PUN/4/DSC14

Table 1: CO-PO Matrix for the Course



CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	3	3	3	3	2	3	3
LO4	3	3	3	2	2	3	3	3
Average	3	3	3	2.75	2.75	2.25	3	3

Table 2: CO-PSO Matrix for the Course

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	2.75	3	3

Table 3: CO-PO-PSO Matrix for the Course

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PS O 1	PS O 2	PSO 3	PSO 4	PS O5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	3	3	3
LO3	3	3	3	3	3	3	3	3	3	3	3	3	3
LO4	3	3	3	2	2	3	3	3	3	3	2	2	3
Average	3	3	3	2.75	2.75	2.5	3	3	3	3	2.50	2.75	3

**Learning Outcomes based Curriculum Framework
(LOCF)**

For

**M.A (English)
Post Graduate Programme**



**Department of English
Chaudhary Devi Lal University
Sirsa-125055
2021**

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2. Learning Outcomes based Curriculum Framework
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 - 2.2 Programme Outcomes (POs)
 - 2.3 Programme Specific Outcomes (PSOs)
3. Programme Structure

1 About the Department

The Department of English has been functional in Ch. Devi Lal University Sirsa since its inception in 2003. It is a part of the Faculty of Humanities. The Department of English supports the university's vision by creating opportunities for our students for developing critical thinking, communication and soft skills, the knowledge of literature, both western and the indigenous literatures in translation and aesthetic sense expected of culturally literate people and prospective teachers in schools, colleges and universities. The Department has been offering academic programmes for the award of degrees of M.A. English and Ph. D (English). The faculty in the department are actively engaged in academic activities and part of Shakespeare Society of India, Executive Member RASE, Fellow of SCT, Cornell University, New York, Member FCT Vadodara etc. All the faculty members are actively involved in research and the dissemination of knowledge by way of publishing books and papers in reputed journals.

2 Learning Outcomes based Curriculum Framework

The Choice Based Credit System (CBCS) has evolved into Learning Outcome-based Curriculum Framework (LOCF) and provides an opportunity for the students to choose Courses from the prescribed Courses comprising Core, Elective/minor or skill-based Courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Grading system provides uniformity in the evaluation and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations which enables the student to move across institutions of higher learning. The uniformity in evaluation system also enables the potential employers in assessing the performance of the candidates.

2.1 Objectives of the Programme

To train and groom students in such a way that they become thoughtful, creative and well-rounded individuals equipped with the key 21st century skills' for the

‘development of an enlightened, socially conscious, knowledgeable, and skilled nation. The Programme focuses on capacity building of the students so that they can meaningfully contribute towards maximizing our country’s human and material resources for the good of individual, society, the country and the world.

2.2 Programme Outcomes (POs)

PO1	Knowledge: Prepare students academically by imparting a detailed knowledge and understanding of selected fields of study in the core disciplines of Humanities and languages (Hindi, Punjabi, Sanskrit and English) in order to promote their cognitive growth and enable them apply this knowledge in their personal, professional and social life.
PO2	Specialization and Employability: Enhance communication skills, soft skills and linguistic proficiency to make them successful in the career they opt.
PO3	Orientation towards Interdisciplinarity: Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of humanities and languages.
PO4	Application Development: Students shall be introduced to Indian and western aesthetics and works in translation to enable them to critically analyse all literary genres by applying theoretical concepts derived from various disciplines while situating them in the broader frameworks of historical movements, literary criticism and theory.
PO5	Critical Thinking: Develop critical skills to analyze literatures in English, Punjabi, Sanskrit and Hindi with focus on issues relating to ethnic groups, race, class, gender and alternative sexualities, exclusion, representation, environment and ecological issues and trends like multiculturalism, post colonialism, post-humanism, migration etc.
PO6	IT- based Skills and Research Ethics: Introduce students to basics of research methodology, research ethics, computer application and ICT- enabled learning practices.
PO7	Problem Solving: Train the students for innovative practices which will help them understand the underlying connection between literature, politics and society.
PO8	Ethics and Leadership: Enhance their ability to embrace and practise moral and ethical values so as to enable them to take leadership roles in their personal, professional and social life.

2.3 Programme Specific Outcomes (PSOs)

PSO1	Development of cognition and a healthy moral sense through incisive understanding of human motives and behaviours as gathered from in-depth study of literary texts and critical works.
PSO2	Ability to utilize the principles of Indian as well as western aesthetics, literary criticism and theory, and interdisciplinary perspectives in the interpretation of the literary texts.
PSO3	Application of ICT in teaching and learning of English language and literature.
PSO4	Development of effective communicative skills in English and a literary and critical sense that would enable to them to think critically, write creatively, script effectively and edit texts successfully.
PSO5	Knowledge of various perspectives, literary movements and cultural trends in India and the world through literary and critical works in translation and its applicability for problem solving in personal, social and professional life.

3 Programme Structure

M.A. English - a four-semester Postgraduate Programme is of 100 credits weightage consisting of Core Courses (CC), Discipline Specific Elective Courses (DSC), Skill Enhancement Courses (SEC) and Open Elective Courses (OEC).

Table 1: Courses and Credit Scheme

Semester	Core Courses (CC)		Discipline Specific Elective Courses (DSC)		Skill Enhancement Courses (SEC)		Open Elective Courses (OEC)		Grand Total Credits
	No. of Courses	Total Credits	No. of Courses	Total Credits	No. of Courses	Total Credits	No. of Courses	Total Credits	
1st	4	16	1	4	1	4	Total of 8 credits are to be earned from courses run by other departments or through SWAYAM (MOOCs)		24
2nd	4	16	1	4	1	4		24	
3rd	3	12	2	8	0	0		20	
4th	3	12	3	12	0	0		24	
Total	CC	56	DSC	28	SEC	8	OEC	8	92+8=100
Percentage	CC	56	DSC	28	SEC	8	OEC	8	100

Table 2: Detailed break-up of Credit Courses (Semester wise)

Semester	Core Courses	Discipline Specific Elective Courses	Skill Enhancement Courses	Open Elective Courses	Total Courses		
	CC	DSC	SEC	OEC			
1 st	CC1	DSC1 OR DSC2	SEC1	Students have to opt Open elective courses in consultation with chairperson of the Department and Director, University center for outreach Programmes and Extension.	6		
	CC2						
	CC3						
	CC4						
2 nd	CC5	DSC3 OR DSC4	SEC2		Students have to opt Open elective courses in consultation with chairperson of the Department and Director, University center for outreach Programmes and Extension.	6	
	CC6						
	CC7						
	CC8						
3 rd	CC9	DSC5 OR DSC6				Students have to opt Open elective courses in consultation with chairperson of the Department and Director, University center for outreach Programmes and Extension.	5
	CC10						
	CC11	DSC7 OR DSC8					
4 th	CC12	DSC9 OR DSC10		Students have to opt Open elective courses in consultation with chairperson of the Department and Director, University center for outreach Programmes and Extension.	6		
	CC13	DSC11 OR DSC12					
	CC14	DSC13 OR DSC14					
Total					23+2=25		

Table 3: Course Code and Title along with Credits detail

S.N	Course Code	Course Title	Credits		
			Theory	Practical	Total
Semester I					
1.	MA/ENG/1/CC1	Introduction to English Literature	4		4
2.	MA/ENG/1/CC2	Early British Drama up to the Restoration Age	4		4
3.	MA/ENG/1/CC3	History of English Literature-1	4		4
4.	MA/ENG/1/CC4	Pre-Independence Indian Writings in English	4		4
5.	MA/ENG/1/DSC 1 OR MA/ENG/1/DSC 2	Study of a Dramatist- i) William Shakespeare OR ii) G.B. Shaw	4		4
6.	MA/ENG/1/SEC1	Language and Linguistic Skills in English	4		4
Total			24		24
Semester II					
1.	MA/ENG/2/CC5	19 th Century American Literature	4		4
2.	MA/ENG/2/CC6	Literary Criticism and Theory-I	4		4
3.	MA/ENG/2/CC7	Early British Poetry up to the Neo- classical Age	4		4
4.	MA/ENG/2/CC8	History of English Literature-II	4		4
5.	MA/ENG/2/DSC 3 OR MA/ENG/2/DSC4	Study of a Poet- i) John Milton OR ii) William Wordsworth	4		4
6.	MA/ENG/2/SEC2	Communication Skills in English	4		4
Total			24		24
Semester III					
1.	MA/ENG/3/CC9	20 th Century American Literature	4		4
2.	MA/ENG/3/CC10	Literary Criticism and Theory-II	4		4
3.	MA/ENG/3/CC11	Post-Colonial Indian Literature	4		4
4.	MA/ENG/3/DSC 5 OR MA/ENG/3/DSC 6	i)Subaltern Literature OR ii) Diasporic Literature	4		4

5.	MA/ENG/3/DSC 7 OR MA/ENG/3/DSC 8	i) Indian Partition Literature OR ii) South Asian Literature	4		4
Total			20		20
Semester IV					
1.	MA/ENG/4/CC12	Modern British Literature	4		4
2.	MA/ENG/4/CC13	Indian Classics and Aesthetics in English Translation	4		4
3	MA/ENG/4/CC14	Research Methodology	4		4
4.	MA/ENG/4/DSC 9 OR MA/ENG/4/DSC10	Study of a Genre- i) Short Story OR ii) Study of Essay	4		4
5.	MA/ENG/4/DSC 11 OR MA/ENG/4/DSC 12	i) Literature and Gender OR ii) Literature and Politics	4		4
6.	MA/ENG/4/DSC 13 OR MA/ENG/4/DSC14	i) Literature and Culture OR ii) Film Studies	4		4
Total			24		24

Table 4: Core Courses

Course Code	Course Title	Credits
MA/ENG/1/CC1	Introduction to English Literature	4
MA/ENG/1/CC2	Early British Drama up to the Restoration Age	4
MA/ENG/1/CC3	History of English Literature-1	4
MA/ENG/1/CC4	Pre-Independence Indian Writings in English	4
MA/ENG/2/CC5	19 th Century American Literature	4
MA/ENG/2/CC6	Literary Criticism and Theory-I	4
MA/ENG/2/CC7	Early British Poetry up to the Neo- classical Age	4
MA/ENG/2/CC8	History of English Literature-II	4

MA/ENG/3/CC9	20 th Century American Literature	4
MA/ENG/3/CC10	Literary Criticism and Theory-II	4
MA/ENG/3/CC11	Post-Colonial Indian Literature	4
MA/ENG/4/CC12	Modern British Literature	4
MA/ENG/4/CC13	Indian Classics and Aesthetics in English Translation	4
MA/ENG/4/CC14	Research Methodology	4
Total		14x4=56

Table No. 5 Discipline Specific Courses

Course Code	Course Title	Credits
MA/ENG/1/DSC1 OR MA/ENG/1/DSC2	Study of a Dramatist- i) William Shakespeare OR ii) G.B. Shaw	4
MA/ENG/2/DSC3 OR MA/ENG/2/DSC4	Study of a Poet- i) John Milton OR ii) William Wordsworth	4
MA/ENG/3/DSC5 OR MA/ENG/3/DSC6	i) Subaltern Literature OR ii) Diasporic Literature	4
MA/ENG/3/DSC7 OR MA/ENG/3/DSC8	i) Indian Partition Literature OR ii) South Asian Literature	4
MA/ENG/4/DSC9 OR MA/ENG/4/DSC10	Study of a Genre- i) Short Story OR ii) Study of Essay	4
MA/ENG/4/DSC11 OR MA/ENG/4/DSC12	i) Literature and Gender OR ii) Literature and Politics	4
MA/ENG/4/DSC13 OR MA/ENG/4/DSC14	i) Literature and Culture OR ii) Film Studies	4
Total		7x4=28

Table No. 6 Skill Enhancement Courses

Course Code	Course Title	Credits
MA/ENG/1/SEC1	Language and Linguistic Skills in English	4
MA/ENG/2/SEC2	Communication Skills in English	4
Total		2x4=8

Table No. 7 Open Elective Courses offered by the Department

The department offers the following Open Elective Courses, preferably in first three semesters (1 to 3).

Course Code	Course Title	Credits
MA/ENG/9/OEC1	Study of William Shakespeare	4
MA/ENG/9/OEC2	Introduction to English Literature	4
MA/ENG/9/OEC3	Communication skills and Usage of English Language	4
MA/ENG/9/OEC4	Indian Literatures in English Translation	4
Total		

Semester-I
Core Course (CC) - 1
Introduction to English Literature

Course Code: MA/ENG/1/CC1

Total Credits: 04

Time: 3 Hrs

Total Marks: 100

Internal Assessment: 30

Theory: 70

Course Objective: The aim of this course is to acquaint the students with the overview of literature in general and English literature in particular. Besides, the course will orient the students towards the study of literatures in English.

Learning Outcomes (LOs): The learners will:

1. Be exposed to the basic functions and nature of literature.
2. Understand literature and its place in society.
3. Get to know various domains of knowledge and their relationship with literature.
4. Know various genres in literature and their types.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2x5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x3=15 Marks).

Syllabus:

Unit-I: Literature: Literature and its Definition; Objectives of the Study of Literature; Form and Content; Literature and Society; Literature and History; Literature and Films; Prose Forms; Literary Criticism.

Unit-II: Drama: Elements of Drama; Drama and its Types—Comedy, Tragedy, Tragicomedy, Poetic Drama, Farce; Stagecraft; Decline of Drama.

Unit-III: Poetry: Elements of Poetry; Epic; Sonnet; Ode; Ballad; Dramatic Monologue; Mock Epic; Lyric.

Unit-IV: Non-Detailed: Novel - Elements of Novel; Romance; Comic Epic in Prose; Epistolary Novel; Gothic Novel; Historical Novel; Social Novel; Psychological Novel.

Suggested Reading:

Booth, Wayne C. *The Rhetoric of Fiction*. 2nd Ed. University of Chicago Press, 1983.

Boulton, Marjorie. *The Anatomy of Drama*. 1st Ed. Routledge, 1960.

Forster, E. M. *Aspects of the Novel*. Mariner Books, 1956.

Fowler, Alastair. *Kinds of Literature*. OUP, 1985.

Fowler, Roger ed. *Dictionary of Modern Critical Terms*. Rev. Ed. Routledge, 2006.

Greene, Ronald, ed. *The Princeton Encyclopaedia of Poetry and Poetics*. 4th Ed. Princeton University Press, 1993.

Palmer, D.J. *The Rise of English Studies*. OUP, 1965.

Wellek, Rene and Austin Warren. *Theory of Literature*. Penguin Books, 1963.

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.5	2	2.5	3	3
LO 2	2.5	2	2.5	3	3
LO 3	2.75	2	3	2.75	2.5
LO 4	2.75	2	3	2.75	2.5
Average	2.62	2	2.75	2.87	2.75

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	3	3	3	2	2	2	2.5	2.5
LO 2	2.5	3	3	2	3	2	2.5	2.5
LO 3	2.5	2	3	2	3	2	2.5	2.5
LO 4	3	3	3	2	2.5	2	2.5	2
Average	2.75	2.75	3	2	2.62	2	2.5	2.37

CO-PO-PSO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.5	2	2.5	3	3	3	3	3	2	2	2	2.5	2.5
LO 2	2.5	2	2.5	3	3	2.5	3	3	2	3	2	2.5	2.5
LO 3	2.75	2	3	2.75	2.5	2.5	2	3	2	3	2	2.5	2.5
LO 4	2.75	2	3	2.75	2.5	3	3	3	2	2.5	2	2.5	2
Average	2.62	2	2.75	2.87	2.75	2.75	2.75	3	2	2.62	2	2.5	2.37

Semester-I
Core Course (CC) – 2
Early British Drama up to The Restoration Age

Course Code: MA/ENG/1/CC 2

Total Credits: 04

Time: 3 Hrs

Total Marks: 100

Internal Assessment: 30

Theory: 70

Course Objective: The paper provides an overview of early British Drama up to Restoration Age. Though the focus of this paper is on the representative texts of the above-mentioned age, the idea is to help the students develop critical understanding of British drama, its origin, evolution, trends, movements and the related concepts. Apart from providing the conceptual and critical tools for analysing drama in general, the course is also meant to offer a survey of all the major socio-economic and cultural developments which have a direct bearing on British drama up to the Restoration Age.

Learning Outcomes (LOs): The learners will:

1. Get acquainted with selected masterpieces of British Drama up to the Restoration Age.
2. Be able to learn and appreciate 'the structure of feelings' i.e. the subtle connection between literature and society.
3. Learn about the generic differences between the various forms of drama emerging and evolving in different ages.
4. Understand and appreciate the theatrical conventions as they evolve with the passage of time

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit-I: Christopher Marlowe: *Dr. Faustus*

Unit-II: Shakespeare: *Hamlet*

Unit-III: William Congreve: *The Way of the World*

Unit-IV: **Non-Detailed:** Religious Origin of Early British drama; Secularization of English Drama; Theatrical Conventions of Elizabethan Theatre; Restoration Comedy and its Theatrical Conventions; Heroic Tragedy; John Webster and Revenge Tragedy; Ben Jonson's Comedy of Humours; Shakespeare's History Plays.

Suggested Reading:

Bloom, Harold. *Christopher Marlowe*. Chelsea House Publishers, 1986.

Bloom, Harold. *Shakespeare: The Invention of the Human*. Riverhead Books, 1999.

Bradley, A. C. *Shakespearean Tragedy*. 4th Ed. Palgrave Macmillan, 2007.

Loftis, John, ed. *Restoration Drama: Modern Essays in Criticism*. OUP, 1966.

Nicoll, Allardyce. *British Drama*. Doaba House, 2020.

Chaudhary Devi Lal University, Sirsa

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.5	2.5	2.5	3	2.5
LO 2	3	3	2.5	2.5	2.5
LO 3	3	2	2.5	3	2.5
LO 4	3	3	3	3	2.5
Average	2.87	2.62	2.62	2.87	2.5

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	2.5	2	2	2.5	3	2	2.5	2.5
LO 2	2.75	2	3	3	3	3	2.5	3
LO 3	2.75	2	2	2.5	2.75	2	2.5	3
LO 4	2.5	2	2	3	2.75	2	2.5	2
Average	2.62	2	2.25	2.75	2.87	2.25	2.5	2.62

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.5	2.5	2.5	3	2.5	2.5	2	2	2.5	3	2	2.5	2.5
LO 2	3	3	2.5	2.5	2.5	2.75	2	3	3	3	3	2.5	3
LO 3	3	2	2.5	3	2.5	2.75	2	2	2.5	2.75	2	2.5	3
LO 4	3	3	3	3	2.5	2.5	2	2	3	2.75	2	2.5	2
Average	2.87	2.62	2.62	2.87	2.5	2.62	2	2.25	2.75	2.87	2.25	2.5	2.62

Semester-I
Core Course (CC) – 3
History of English Literature- I

Course Code: MA/ENG/1/CC 3
Total Credits: 04
Time:3 Hrs

Total Marks: 100
Internal Assessment: 30
Theory: 70

Course Objective: English literature has a direct relation to the age to which it belongs to. The Course will acquaint students with the different ages, writers and philosophical strains contributing to each. This will further help students to understand and trace the development of a genre and its historicity.

Learning Outcomes (LOs): The learners will:

- i) Be exposed to the historicity of literature.
- ii) Understand the philosophical strain in different ages.
- iii) Learn the domino effect of literary ages.
- iv) Be able to understand the subtle connection between literary trends and the social changes in different ages.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

- Unit-I: English Literature Up to Renaissance:** Middle Ages; Renaissance; University Wits; Metaphysical Poetry; Shakespeare, Drama after Shakespeare, Elizabethan Sonneteers.
- Unit-II: Neo Classical Age:** Reformation and Restoration; Glorious Revolution; Age of Prose and Reason; John Dryden; Alexander Pope; Periodical Essay: Rise, and Development of Novel.
- Unit III: Romantic Age:** Precursors of Romantics; Romantic Poetry; Wordsworth and Coleridge, Younger Romantics, Jane Austen; Historical novel,
- Unit-IV: Non-Detailed:** Miracle and Mystery Plays; Queen Elizabeth's Patronage to Literature; Edmund Spenser; Ban on Drama; John Milton; Dr. Samuel Johnson; William Blake; Gothic Novel.

Suggested Reading:

Dahiya, Bhim S. *A New History of English Literature*. Doaba Publications, 2005.

Hudson, William Henry. *Outline History of English Literature* (Classic Reprint). Forgotten Books, 2015.

Legouis, Emile, and Louis Cazamian. *A History of English Literature*. 1929.

Peck, John, and Martin Coyle. *A Brief History of English Literature*. Palgrave, 2002.

Sanders, Andrew. *The Short Oxford History of English Literature*. OUP, 2006.

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.5	2.25	2	2.5	3
LO 2	2.5	2.25	2	2.5	2.25
LO 3	2.75	2.25	2.5	2.5	2.25
LO 4	2.75	2.25	2.5	2.5	3
Average	2.62	2.25	2.25	2.5	2.62

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	3	3	2	3	2	2	2.5	2.5
LO 2	3	3	2	3	3	2	2.5	2.5
LO 3	2.5	2	2.25	2.5	3	2.25	2.5	2.5
LO 4	2.5	3	2.5	2.5	3	2.5	2.5	2.5
Average	2.75	2.75	2.18	2.62	2.75	2.18	2.5	2.5

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.5	2.25	2	2.5	3	3	3	2	3	2	2	2.5	2.5
LO 2	2.5	2.25	2	2.5	2.25	3	3	2	3	3	2	2.5	2.5
LO 3	2.75	2.25	2.5	2.5	2.25	2.5	2	2.25	2.5	3	2.25	2.5	2.5
LO 4	2.75	2.25	2.5	2.5	3	2.5	3	2.5	2.5	3	2.5	2.5	2.5
Average	2.62	2.25	2.25	2.5	2.62	2.75	2.75	2.18	2.62	2.75	2.18	2.5	2.5

Semester-I
Core Course (CC) – 4
Pre-Independence Indian Writings in English

Course Code: MA/ENG/1/CC 4

Total Marks: 100

Total Credits: 04

Internal Assessment: 30

Time: 3 Hrs

Theory: 70

Course Objective: The course shall deal exclusively with seminal works written in English by Indian writers before independence. Though the focus of this course paper is on the representative texts of the above mentioned age, the idea is to help the students develop critical understanding of Indian writings in English, its origin, evolution, trends, movements and the related concepts.

Learning Outcomes (LOs): The learners will:

1. Be able to trace the origin of Indian English Literature.
2. Be able to understand how and why Indian English Literature has been able to establish itself as an important field of study in the World.
3. Be able to understand and analyse the Indian culture and society as present in different texts of the contemporary times.
4. Get well acquainted with the literary luminaries of Indian English Literature.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit-I: Henry Derozio: “My Dream”; “Freedom to the Slave”; “The Harp of India.”

Toru Dutt: “Sita”; “My Vocation”; “The Broken Bell.”

Unit-II: Mulk Raj Anand: *Untouchable*

Unit-III: Rabindranath Tagore: *Chitra*

Unit-IV: Non-Detailed: Raja Rao’s *Kanthapura*; *Bianca, or The Young Spanish Maiden* by Toru Dutt; *Kamala: The Story of a Hindu Life* by Krupabai Sathianandhan; Sake Dean Mahomed’s *The Travels of Dean Mahomet*; Bankim Chandra Chattopadhyay’s *Rajmohan's Wife*; Sri Aurobindo; Dhan Gopal Mukerji; Manohar Malgonkar.

Suggested Reading:

Agrawal, K. A. ed. *Indian Writing in English*. Atlantic Publishers and Distributors Pvt. Ltd., 2018.

Mehrotra, Arvind Krishna. *An Illustrated History of Indian Literature In English*. Orient Blackswan Private Limited, 2005.

Singh, Pramod Kumar. *Indian Fiction in English*. Atlantic Pub., 2000.

George, Rosemary Marangoly. *Indian English and the Fiction of National Literature*. Cambridge University Press, 2013.

Iyengar, K. R. Srinivasa. *Indian Writing in English*. Rev. Ed. Sterling Publications Private Limited, 2019.

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	3	2.5	2.5	2.5	2.5
LO 2	3	2.5	2.5	2.5	2.5
LO 3	2.5	2.5	2.5	2.5	3
LO 4	2.5	2.5	2.5	2.5	2.5
Average	2.75	2.5	2.5	2.5	2.62

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	3	2.5	2	2.5	2.75	2	2.5	2.75
LO 2	2.75	2.5	2	2.5	2.75	2	2.5	2.75
LO 3	3	2	2	2.5	2.50	2	2.75	3
LO 4	2.5	2	2	2.5	2.5	2	3	2.5
Average	2.81	2.25	2	2.5	2.62	2	2.68	2.75

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	3	2.5	2.5	2.5	2.5	3	2.5	2	2.5	2.75	2	2.5	2.75
LO 2	3	2.5	2.5	2.5	2.5	2.75	2.5	2	2.5	2.75	2	2.5	2.75
LO 3	2.5	2.5	2.5	2.5	3	3	2	2	2.5	2.50	2	2.75	3
LO 4	2.5	2.5	2.5	2.5	2.5	2.5	2	2	2.5	2.5	2	3	2.5
Average	2.75	2.5	2.5	2.5	2.62	2.81	2.25	2	2.5	2.62	2	2.68	2.75

Semester-I
Discipline Specific Elective Course (DSC) -1
Study of a Dramatist
Option-(i) William Shakespeare

Course Code: MA/ENG/1/DSC I
Total Credits: 04
Time: 3 Hrs

Total Marks 100
Internal Assessment: 30
Theory: 70

Course Objective: The aim of this course is to introduce the students to the works of Shakespeare, though the focus of this paper is on the seminal works of the writer, the idea is to make students understand the depth and richness of his works which are still relevant to the present-day readers.

Learning Outcomes (LOs): The learners will:

1. Be able to understand the Renaissance and its impact on English Literature.
2. Learn the specific characteristics of Elizabethan period.
3. Learn about the genre of sonnet, especially that of Shakespearean sonnets.
4. Learn how to critically analyse and evaluate a play by identifying its themes, characters, plot, setting etc.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit-I: *Macbeth*

Unit-II: *As You Like It*

Unit-III: Sonnets: 18, 23, 30, 65, 73, 116

Unit-IV: **Non-Detailed:** *Julius Caesar; Othello; King Lear; The Merchant of Venice; Romeo and Juliet; The Tempest; Twelfth Night; Midsummer Night's Dream.*

Suggested Reading:

Bates, Jonathan. *The Genius of Shakespeare*. 10th Anniversary edition. Oxford University Press, 2012.

Bloom, Harold. *Shakespeare: The Invention of the Human*. Riverhead Books, 1999.

Boyce, Charles, and David Allen White. *Shakespeare A to Z: The Essential Reference to His Plays, His Poems, His Life and Times, and More*. Facts on File, 1990.

Crystal, David, and Ben Crystal. *Shakespeare's Words: A Glossary and Language Companion*. Penguin Books, 2002.

Dobson, Michael, et al., eds. *The Oxford Companion to Shakespeare*. 2nd Ed. Oxford University Press, 2015.

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.75	2.5	2.5	2.5	2.5
LO 2	2.0	2.5	2	2.5	2.5
LO 3	2.5	2.5	2.5	3	2.5
LO 4	3	2.5	2.5	2.5	2.5
Average	2.56	2.5	2.37	2.62	2.5

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	2.75	2	2	2.5	2	2	2.75	3
LO 2	2.5	2.5	2	2.5	3	2.5	2.75	3
LO 3	2.5	2	2	2.5	3	2.5	2.75	2.5
LO 4	2.75	2.5	2	3	3	2.5	2.75	2.5
Average	2.62	2.25	2	2.62	2.75	2.37	2.75	2.75

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.75	2.5	2.5	2.5	2.5	2.75	2	2	2.5	2	2	2.75	3
LO 2	2.0	2.5	2	2.5	2.5	2.5	2.5	2	2.5	3	2.5	2.75	3
LO 3	2.5	2.5	2.5	3	2.5	2.5	2	2	2.5	3	2.5	2.75	2.5
LO 4	3	2.5	2.5	2.5	2.5	2.75	2.5	2	3	3	2.5	2.75	2.5
Average	2.56	2.5	2.37	2.62	2.5	2.62	2.25	2	2.62	2.75	2.37	2.75	2.75

Semester-I
Discipline Specific Elective Course (DSC) -2
Study of a Dramatist
Option-(ii) G.B. Shaw

Course Code: MA/ENG/1/DSC I
Total Credits: 04
Time: 3 Hrs

Total Marks: 100
Internal Assessment: 30
Theory: 70

Course Objective: The Course shall orient the students towards in-depth study of G.B Shaw as a dramatist. Though the focus of this paper is on the seminal texts of the above mentioned dramatist, the idea is to help the students develop critical understanding of the evolution of the genius of G.B Shaw as dramatist.

Learning Outcomes (LOs): The learners will:

1. Be able to understand the genius of G.B Shaw as a dramatist.
2. Develop understanding of various stages of the growth and evolution of British Drama and the contribution made by G.B Shaw as a dramatist.
3. Develop critical understanding of the theatrical conventions as developed and experimented with G.B Shaw as a dramatist.
4. Be sufficiently orientated towards genre based study embedded in historical context.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit-I: *Arms and the Man*

Unit-II: *Saint Joan*

Unit-III: *The Apple Cart*

Unit-IV: **Non-Detailed:** Drama of Ideas; *Getting Married; Caesar and Cleopatra; Candida; Mrs Warren's Profession; Major Barbara; Pygmalion; The Philanderer.*

Suggested Reading:

Byrne, Sandie, ed. *George Bernard Shaw's Plays*. 2nd Ed. W. W. Norton & Company, 2002.

Henderson, Archibald. *George Bernard Shaw: His Life and Works*. The Johns Hopkins University Press, 1911.

Ralph, James Kaufmann. *G.B. Shaw: A Collection of Critical Essays*. Prentice Hall, 1968.

Whitman, Robert F. *Shaw and the Play of Ideas*. Cornell University Press, 1977.

Peters, Sally. *Bernard Shaw*. Yale University Press, 1996.

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.75	2.5	2.5	2.5	2.5
LO 2	2.0	2.5	2	2.5	2.5
LO 3	2.5	2.5	2.5	3	2.5
LO 4	3	2.5	2.5	2.5	2.5
Average	2.56	2.5	2.37	2.62	2.5

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	2.5	2	2	2.5	2	2	2.75	3
LO 2	2.5	2.5	2	2.5	3	2.5	2.75	3
LO 3	2.5	2	2	2.5	3	2.5	2.75	2.5
LO 4	3	2.5	2	3	3	2.5	2.75	2.5
Average	2.62	2.25	2	2.62	2.75	2.25	2.75	2.75

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.75	2.5	2.5	2.5	2.5	2.5	2	2	2.5	2	2	2.75	3
LO 2	2.0	2.5	2	2.5	2.5	2.5	2.5	2	2.5	3	2.5	2.75	3
LO 3	2.5	2.5	2.5	3	2.5	2.5	2	2	2.5	3	2.5	2.75	2.5
LO 4	3	2.5	2.5	2.5	2.5	3	2.5	2	3	3	2.5	2.75	2.5
Average	2.56	2.5	2.37	2.62	2.5	2.62	2.25	2	2.62	2.75	2.25	2.75	2.75

Semester-I
Skill Enhancement Course (SEC) -1
Language and Linguistic Skills in English

Course Code: MA/ENG/1/SEC 1

Total Marks: 100

Total Credits: 04

Internal Assessment: 30

Time: 3 Hrs

Theory: 70

Course Objective: The need for learning and mastering the English language has, over the last few decades, grown enormously all over the world; India is no exception. This course will help students in understanding the subtle nuances of English language and acquire the art of spoken English. Besides, this course will also help students understand the evolution of English language.

Learning Outcomes (LOs): The learners will develop:

1. Understanding of phonology as mechanics of language.
2. Better understanding of the language.
3. Better English pronunciation and better usage of English in real- life situations.
4. Understanding the evolution of English Language from ancient times to the modern.

Instructions for the Paper-setter and Students: There would be five questions in all and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each (exception: objective-type or exercise-based questions, if any). The students would attempt any 5, out of the given 6 ($2 \times 5 = 10$ Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions and the students would attempt any 3 in about 200 words each. ($5 \times 3 = 15$ Marks).

In addition to detailed answer/ essay/ short notes type questions, the examiner shall ask objective type/exercise-based questions from the topics Three-term Label (writing three-term label for the consonant sounds in given words), Transcription (transcription of English words to IPA), Structure of syllable (writing two or three words for given syllable structures), Primary Stress (Marking primary stress on English words), Weak Forms (Giving IPA transcription of underlined weak forms in sentences), Intonation (Marking Falling/rising tone on sentences, giving reasons for the tone) etc.

Syllabus:

Unit-I: Phonetics: Speech Mechanism; Phonemes in British RP; Vowels and Consonants; Classification of Consonant Sounds: Place and Manner of Articulation.

Unit-II: Phonology: IPA Symbols, Phonetic Transcription of English Words to IPA; Word Accent: Factors determining Word Stress; Placement of Primary Stress; Intonation; Functions of Intonation.

Unit-III: History of English Language: The Old English; The Middle English; The Modern English; History of English language in India; British vs American English.

Unit-IV: Non-Detailed: Description of Vowels Sounds; Syllable and it's Structures; Syllabic Consonants; Weak Forms; Three-term Label description; Great Vowel Shift.

Suggested Reading:

Balasubramanian., T. *A Textbook of English Phonetics for Indian Students*. Macmillan Publishers India Ltd., 1981.

Bansal, R. K., and J. B. Harrison. *Spoken English for India*. 2nd revised edition. Orient Longman, 1983.

McIntyre, Dan. *History of English: A Resource Book for Students*. 2nd edition. Routledge, 2020.

Sethi, J, and P.V. Dhamija. *A Course In Phonetics And Spoken English*. 2nd edition. Prentice-Hall India Learning Private Limited, 1999.

Sethi, J. and D.V. Jindal. *A Handbook of Pronunciation of English Words*. Prentice-Hall India Learning Private Limited, 1993.

CO-PSO matrix :

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2	2	3	2.5	2.25
LO 2	2.25	2.25	2.5	2.5	2.25
LO 3	2.25	2.25	2.5	2.75	2.25
LO 4	2.25	2.25	2.5	3	2
Average	2.18	2.18	2.62	2.68	2.18

CO-PO matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	2.75	3	2	3	2	3	2	3
LO 2	2.25	3	2	3	3	3	2	3
LO 3	2.75	2	2	3	3	2.75	2	3
LO 4	2.25	3	2	3	3	2.75	2	2
Average	2.5	2.75	2	3	2.75	2.87	2	2.75

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2	2	3	2.5	2.25	2.75	3	2	3	2	3	2	3
LO 2	2.25	2.25	2.5	2.5	2.25	2.25	3	2	3	3	3	2	3
LO 3	2.25	2.25	2.5	2.75	2.25	2.75	2	2	3	3	2.75	2	3
LO 4	2.25	2.25	2.5	3	2	2.25	3	2	3	3	2.75	2	2
Average	2.18	2.18	2.62	2.68	2.18	2.5	2.75	2	3	2.75	2.87	2	2.75

Semester-II
Core Course (CC) - 5
19th Century American Literature

Course Code: MA/ENG/2/CC 5

Total Credits: 04

Time: 3 Hrs

Total Marks: 100

Internal Assessment: 30

Theory: 70

Course Objective: In last century America has been at the Centre of the world and American Literature forms a major type/kind of Literature written in English. Knowing and understanding the rise of America as a Nation first and as a superpower later on will help students understand the world scenario as well as the basics of development of America to what it has become.

Learning Outcomes (LOs): The learners will:

1. Be exposed to the emergence of America as a nation and society.
2. Understand the philosophical strains of America.
3. Be able to learn about American Culture.
4. Be able to understand the basics of American identity.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit-I: Ralph Waldo Emerson: “Self-Reliance”; “The American Scholar”

Unit-II: Walt Whitman: *Song of Myself*, Sections: 1, 6, 2, 24, 30 & 52

Unit-III: Nathaniel Hawthorne: *The Scarlet Letter*

Unit-IV: Non-detailed: Discovery of America; American Dream; American War of Independence; American Civil War; American Renaissance; *Moby Dick*; Henry David Thoreau: *Walden, The Last of the Mohicans*

Suggested Reading:

Black, Stephen A. *Eugene O'Neill: Beyond Mourning and Tragedy*, New Haven: Yale University Press, 2002.

Bradbury, Malcolm, and Richard Ruland. *From Puritanism to Postmodernism: A History of American Literature*. Penguin Group (IJS), 1992.

Castronovo, Russ, ed. *The Oxford Handbook of Nineteenth-Century American Literature*. Oxford Handbooks, 2012.

Gura, Philip F. *American Transcendentalism: A History*. New York: OUP, 1988.

McPherson, James M. *Battle Cry of Freedom: The Civil War Era*. OUP, 1988.

Zinn, Howard. *A People's History of the United States: 1492 to Present*. Harper Collins, 1980.

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.5	2.5	2.5	2.5	2.5
LO 2	2.5	2.5	2.5	2.5	2.75
LO 3	2.5	2.5	3	2.5	2.5
LO 4	3	2.5	2.75	2.5	2.75
Average	2.62	2.5	2.68	2.5	2.62

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	3	3	2	2.5	2	2	2.5	3
LO 2	2.5	3	2	2.5	3	2	2.5	3
LO 3	3	2	2	2.5	3	2.25	2.5	2.5
LO 4	2.5	2.5	2	2.5	3	2.5	2.25	2.5
Average	2.75	2.62	2	2.5	2.75	2.18	2.43	2.75

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.5	2.5	2.5	2.5	2.5	3	3	2	2.5	2	2	2.5	3
LO 2	2.5	2.5	2.5	2.5	2.75	2.5	3	2	2.5	3	2	2.5	3
LO 3	2.5	2.5	3	2.5	2.5	3	2	2	2.5	3	2.25	2.5	2.5
LO 4	3	2.5	2.75	2.5	2.75	2.5	2.5	2	2.5	3	2.5	2.25	2.5
Average	2.62	2.5	2.68	2.5	2.62	2.75	2.62	2	2.5	2.75	2.18	2.43	2.75

Semester-II
Core Course (CC) - 6
Literary Criticism and Theory - I

Course Code: MA/ENG/2/CC 6

Total Credits: 04

Time: 3 Hrs

Total Marks:100

Internal Assessment: 30

Theory: 70

Course Objective: The Course provides a textual/critical study of the developments in literary criticism and theory and the contributions of the literary critics from the Classical Age to the end of 19th century. Central to this course is the study of some of the major concepts and writings whose contribution to this area constitutes a significant benchmark in each era. The course undertakes to offer a survey of all the major developments in literary criticism and theory up to the 19th century. It also provides a conceptual framework for developing an understanding of the function and practice of literary theory and traditional modes of literary criticism.

Learning Outcomes (LOs): The learners will:

1. Be able to develop critical sense to read and critique literature through various theoretical and critical frameworks.
2. Develop a thorough understanding of the fundamentals of literary criticism and theory.
3. Understand the trajectory of English literary criticism from the Classical Age up to 19th cc., with focus on seminal texts and concepts.
4. Develop understanding about the principles of literary criticism and theory.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit-I: Aristotle: Poetics (Translated and with an Introduction and Notes by Malcolm Heath, Pub. by Penguin Books).

Unit-II: William Wordsworth: Preface to Lyrical Ballads

Unit-III: Matthew Arnold:

i) "The Study of Poetry"

ii) "The Function of Criticism at the Present Time"

Unit IV: Non-Detailed: Longinus' Concept of the Sublime; Horace: His views on Poets; Philip Sidney: His views on the Nature and Definition of Poetry; Dr Johnson: His views on Classical Unities (Preface to Shakespeare); Alexander Pope on Bad Critics; John Dryden: His views on Poetry; S.T Coleridge: His views on Imagination and Fancy.

Suggested Reading:

Nagarajan, M.S. *English Literary Criticism and Theory: An Introduction*. Orient Blackswan, 2006.

Daiches. David. *Critical Approaches to Literature*. Kessinger Publishing, 2007.

Habib, M.A.R. *Literary Criticism from Plato to the Present: An Introduction*. Wiley-Blackwell, 2011.

James, R. A. Scott. *The Making of Literature*. Shree Niwas Publication, 2007.

Lodge, David and Nigel Wood, Ed. *Modern Criticism and Theory: A Reader*. Routledge, 2017.

Watson, George. *The Literary Critics*.Forgotten Books, 2018.

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.5	2	2.5	2.25	2.25
LO 2	2.5	2	2.5	2.25	2.25
LO 3	2.5	2.25	2.75	2	2.25
LO 4	2.5	2.5	2.75	2.5	2.25
Average	2.5	2.18	2.62	2.25	2.25

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	2.5	3	2	3	2	2.25	2.5	3
LO 2	2.5	3	2.25	3	3	2	2.5	2.5
LO 3	3	2	2.25	2.5	3	2.25	2.75	2.5
LO 4	3	3	2.25	3	3	2.25	2.75	2.25
Average	2.75	2.75	2.18	2.87	2.75	2.18	2.62	2.56

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.5	2	2.5	2.25	2.25	2.5	3	2	3	2	2.25	2.5	3
LO 2	2.5	2	2.5	2.25	2.25	2.5	3	2.25	3	3	2	2.5	2.5
LO 3	2.5	2.25	2.75	2	2.25	3	2	2.25	2.5	3	2.25	2.75	2.5
LO 4	2.5	2.5	2.75	2.5	2.25	3	3	2.25	3	3	2.25	2.75	2.25
Average	2.5	2.18	2.62	2.25	2.25	2.75	2.75	2.18	2.87	2.75	2.18	2.62	2.56

Semester-II
Core Course (CC) - 7
Early British Poetry up to the Neo-Classical Age

Course Code: MA/ENG/2/CC 7

Total Credits: 04

Time: 3 Hrs

Total Marks: 100

Internal Assessment: 30

Theory: 70

Course Objective: The Course provides an overview of early British poetry from the age of Chaucer upto Neo-classical Age. Though the focus of this Course is on the representative texts of the above mentioned age, the idea is to help the students develop critical understanding of British poetry, its origin, evolution, trends, movements and the related concepts.

Learning Outcomes (LOs): The learner shall:

1. Be thoroughly acquainted with selected masterpieces of British poetry from the Age of Chaucer up to the Neo-classical Age.
2. Be able to learn and appreciate the subtle connection between literature and society.
3. Learn about the generic differences between the various forms of poetry emerging and evolving in different ages.
4. Be able to understand and appreciate the language of poetry which is markedly different from the language of prose.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit I: Geoffery Chaucer: “General Prologue” to *Canterbury Tales*

Unit II: Alexander Pope: “The Rape of the Lock”

Unit III: John Donne: “The Canonization”; “The Good Morrow”; “The Sun Rising”; “Batter My Heart”; “A Valediction: Forbidding Mourning”; “Thou hast Made Me”.

Unit IV: Non-Detailed: Edmund Spenser; John Dryden as a Poet; Shakespearean Sonnets; Samuel Butler’s *Hudibras*; Aphra Behn as a Poet; Heroic Couplet; Dr Johnson as a Poet; Oliver Goldsmith as a Poet.

Suggested Reading:

Bennet, Joan. *Five Metaphysical Poets*. 3rd edition. Cambridge University Press, 2009.

Jack, Ian. *Augustan Satire*. OUP, 1952.

Reeves, James. *A Short History of English Poetry*. Heinemann Educational Publishers, 1964.

Walker, Hugh. *English Satire and Satirist*. Forgotten Books, 2019.

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.5	2.5	2.5	2.25	3
LO 2	3	2.5	2.5	3	2.75
LO 3	2.5	2.5	2.5	2.5	2.5
LO 4	3	2.5	2.75	2.75	2.75
Average	2.75	2.5	2.56	2.62	2.75

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	3	3	2	3	2	2	3	2.5
LO 2	3	3	2	3	3	2	2.5	3
LO 3	3	2	2.5	2.5	3	2.5	2.5	2.5
LO 4	3	3	2.25	2.5	3	2.25	2.5	2.25
Average	3	2.75	2.18	2.75	2.75	2.18	2.62	2.56

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.5	2.5	2.5	2.25	3	3	3	2	3	2	2	3	2.5
LO 2	3	2.5	2.5	3	2.75	3	3	2	3	3	2	2.5	3
LO 3	2.5	2.5	2.5	2.5	2.5	3	2	2.5	2.5	3	2.5	2.5	2.5
LO 4	3	2.5	2.75	2.75	2.75	3	3	2.25	2.5	3	2.25	2.5	2.25
Average	2.75	2.5	2.56	2.62	2.75	3	2.75	2.18	2.75	2.75	2.18	2.62	2.56

Semester-II
Core Course (CC) - 8
History of English Literature-II

Course Code: MA/ENG/2/CC 8

Total Credits: 04

Time: 3 Hrs

Total Marks: 100

Internal Assessment: 30

Theory: 70

Course Objective: This Course is designed as a progression of History of English literature-I. It aims to familiarise the students with the vast body of English literature from the Victorian to the Postmodern Age.

Learning Outcomes (LOs): The learners will:

1. Be able to understand the growth and development of English literature.
2. Be able to understand how various genres evolved.
3. Learn about prominent writers and famous works in English literature from Romantic Age to Postmodernism.
4. Be able to understand the subtle connection between literary trends and the social changes in different ages.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit-I The Victorian Age: Industrial Revolution, Victorian Compromise, Nietzsche and Death of God, Darwin and Rise of Science, Social Novel, Pre-Raphaelite Poetry.

Unit-II The Modern Age: Modernism, Psychological Novel, World Wars, Modern Poetry, Modern Poetical Drama, Nihilism and Dadaism.

Unit-III The Postmodern Age: Theatre of the Absurd, Existentialism, Return of The Margin, Meta-fiction and Self reflexivity, Expressionistic Drama, Rise of Post-human.

Unit-IV Non-Detailed: Oxford Movement; Chartist Movement; Agrarian Literature; Thomas Hardy; D H Lawrence; Virginia Woolf; The Myth of Sisyphus; Rise of Digital Ecology.

Suggested Reading:

Dahiya, Bhim S. *A New History of English Literature*. Doaba Publications, 2005.

Hudson, William Henry. *Outline History of English Literature (Classic Reprint)*. Forgotten Books, 2015.

Legouis, Emile, and Louis Cazamian. *A History of English Literature*. 1929.

Peck, John, and Martin Coyle. *A Brief History of English Literature*. Palgrave, 2002.

Chaudhary Devi Lal University, Sirsa

Preminger, Alex, and Frank Joseph Warnke. *Princeton Encyclopaedia of Poetry and Poetics*. Princeton University Press, 1974.

Sanders, Andrew. *The Short Oxford History of English Literature*. Oxford Univ. Press, 2006.

Wolfreys, Julian. *The English Literature Companion*. Palgrave Macmillan, 2011.

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.5	2.25	2	2.5	3
LO 2	2.5	2.25	2	2.5	2.25
LO 3	2.75	2.25	2.5	2.5	2.25
LO 4	2.75	2.25	2.5	2.5	3
Average	2.62	2.25	2.25	2.5	2.62

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	3	3	2	3	2	2	2.5	2.5
LO 2	3	3	2	3	3	2	2.5	2.5
LO 3	2.5	2	2.25	2.5	3	2.25	2.5	2.5
LO 4	2.5	3	2.5	2.5	3	2.5	2.5	2.5
Average	2.75	2.75	2.18	2.62	2.75	2.18	2.5	2.5

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.5	2.25	2	2.5	3	3	3	2	3	2	2	2.5	2.5
LO 2	2.5	2.25	2	2.5	2.25	3	3	2	3	3	2	2.5	2.5
LO 3	2.75	2.25	2.5	2.5	2.25	2.5	2	2.25	2.5	3	2.25	2.5	2.5
LO 4	2.75	2.25	2.5	2.5	3	2.5	3	2.5	2.5	3	2.5	2.5	2.5
Average	2.62	2.25	2.25	2.5	2.62	2.75	2.75	2.18	2.62	2.75	2.18	2.5	2.5

Semester-II
Discipline specific Elective Course (DSC) - 3
Study of a Poet
Option (i): John Milton

Course Code: MA/ENG/2/DSC 2
Total Credits: 04
Time: 3 Hrs

Total Marks: 100
Internal Assessment: 30
Theory: 70

Course Objective:

The course aims at familiarizing the learners with literature, culture and history of the 17th Century through the study of the most representative poet of the age - John Milton. Though the focus of this Course is on the canonical poems of the poet, the idea is to help the students develop critical understanding of different forms of poetry written by Milton.

Learning Outcomes (LOs): The learners will be exposed to the nuances of poetry and will develop:

1. Ability to understand and apply different forms and aspects of poetry.
2. Ability to understand in detail the poetic genius of John Milton.
3. A good understanding of epic traditions in the works of Milton.
4. Better understanding of the socio-political and cultural history of the period.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit-I: *Paradise Lost* (Book I)

Unit-II: "Lycidas"

Unit-III: "On His Blindness"; "On His Deceased Wife"; "On Shakespeare"; "To Cyriack Skinner"; "On His Having Arrived the Age of Twenty-Three"; "Song on a May Morning"

Unit-IV: **Non-Detailed:** *Paradise Lost* (Books II – XII); *Paradise Regained*; *Samson Agonistes*; "L'Allegro"; "Il Penseroso"; Puritanism; Metaphysical Poetry; John Donne.

Suggested Reading:

Gardner, Helen, ed. *The Metaphysical Poets*. 2nd edition. OUP, 1967.

Milton, John, and Henry John Todd. *The Poetical Works of John Milton: With Notes of Various Authors*. Arkose Press, 2015.

Rajan, Balachandra. *Paradise Lost and The Seventeenth Century Reader*. Chatto and Windus, 1947.

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.5	2	2.5	2.25	2.5
LO 2	2.25	2,25	2.5	2.25	2.75
LO 3	2.75	2.75	2.5	2.5	2.5
LO 4	3	2.75	2.75	2.75	2.75
Average	2.87	2.43	2.56	2.43	2.62

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	3	3	3	3	2	2	2.75	3
LO 2	2.5	3	2.5	2.5	3	2	2.75	2.75
LO 3	2.25	2	3	2.5	3	2	2.5	2.75
LO 4	2.5	3	2.5	3	3	3	2.5	2
Average	2.56	2.75	2.75	2.75	2.75	2.25	2.62	2.62

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.5	2	2.5	2.25	2.5	3	3	3	3	2	2	2.75	3
LO 2	2.25	2,25	2.5	2.25	2.75	2.5	3	2.5	2.5	3	2	2.75	2.75
LO 3	2.75	2.75	2.5	2.5	2.5	2.25	2	3	2.5	3	2	2.5	2.75
LO 4	3	2.75	2.75	2.75	2.75	2.5	3	2.5	3	3	3	2.5	2
Average	2.87	2.43	2.56	2.43	2.62	2.56	2.75	2.75	2.75	2.75	2.25	2.62	2.62

Semester-II
Discipline specific Elective Course (DSC) - 4
Study of a Poet
Option-(II) William Wordsworth

Course Code: MA/ENG/2/DSC 2
Total Credits: 04
Time: 3 Hrs

Total Marks: 100
Internal Assessment: 30
Theory: 70

Course Objective: The course is designed to help students understand William Wordsworth as poet whose poetry celebrates the life and language of the common man. William Wordsworth is epoch making writer and a thorough study of his poetry will help students learn the nuances of Romantic age poetry, and philosophy of pantheism.

Learning Outcomes (LOs): The learners will:

1. Be able to understand Wordsworth as a representative poet.
2. Understand the Romantic theory of poetry.
3. Be exposed to the philosophical strain of pantheism.
4. Be able to make an in-depth study of various poetic devices -- imagery, idiom, symbolism etc.-- used by William Wordsworth as a poet.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit-I: “The Solitary Reaper”; “The World Is Too Much With Us”; “Three Years She Grew in Sun and Shower”; “Daffodils”; “We Are Seven”; “The Idiot Boy”.

Unit-II: *The Prelude*

Unit-III: “Tintern Abbey”; “Immortality Ode”

Unit-IV: **Non-Detailed:** “Ode to Duty”, “It is a Beauteous Evening, Calm and Free”; “Perfect Woman”; “Lines Written in Early Spring”; “The Sun Has Long Been Set”; “The Mad Mother”; “A Slumber Did My Spirit Seal”; “Composed Upon Westminster Bridge”.

Suggested Reading:

Potts, Abbie Findlay. *Wordsworth's "Prelude": A Study of Literary Form*. Oxford University Press, 1954.

Wordsworth, William, and Abbie Findlay Potts. *The Ecclesiastical Sonnets of William Wordsworth: A Critical Edition*. Reprint Services Corp., 2000.

Wordsworth, William, and Jonathan Wordsworth. *William Wordsworth*. Cambridge University Press, 1985.

Wordsworth, William, and Seamus Heaney. *The Essential Wordsworth*. Ecco Press, 1988.

Wordsworth, William, and K. E. Sullivan. *Wordsworth, the Eternal Romantic*. Brockhampton Press, 1996.

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.5	2.5	2.5	2.5	2.5
LO 2	2.25	2.25	2.5	2.25	2.25
LO 3	2.5	2.5	2.5	2.5	2.5
LO 4	2.5	2	3	2.25	2.5
Average	2.43	2.75	2.62	2.37	2.43

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	2.5	3	2	3	2	2	2.5	2.5
LO 2	2.5	3	2	3	3	2.5	2.5	2.5
LO 3	3	2	2	2.5	3	2.5	2.75	2.25
LO 4	2.5	3	2	2.5	3	2.25	2.75	2.5
Average	2.62	2.75	2	2.75	2.75	2.31	2.62	2.43

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.5	2.5	2.5	2.5	2.5	2.5	3	2	3	2	2	2.5	2.5
LO 2	2.25	2.25	2.5	2.25	2.25	2.5	3	2	3	3	2.5	2.5	2.5
LO 3	2.5	2.5	2.5	2.5	2.5	3	2	2	2.5	3	2.5	2.75	2.25
LO 4	2.5	2	3	2.25	2.5	2.5	3	2	2.5	3	2.25	2.75	2.5
Average	2.43	2.75	2.62	2.37	2.43	2.62	2.75	2	2.75	2.75	2.31	2.62	2.43

Semester-II
Skill Enhancement Course (SEC) - 2
(With Practical Exam)
Communication Skills in English

Course Code: MA/ENG/2/SEC 2

Total Credits: 04

Time: 3 Hrs

Total Marks:100

Internal Assessment: 30

Theory: 50

Practical:20

Course Objective: The main objective of this course is to empower the students with the ability to reach a higher level of competence in communication. The course will help learners further develop their skills of Reading, Writing, Listening and Speaking. It aims at building their ability to communicate effectively with a wider range of people especially for professional purposes, and their competence in Reading and Writing to facilitate their academic pursuits.

Learning Outcomes (LOs): The learners will develop:

1. A thorough understanding of various aspects of effective communication.
2. Better understanding of the subtle nuances of Listening and Speaking skills.
3. Competence in Reading and Writing skills, which will further facilitate their academic pursuits.
4. Better understanding of vocabulary and its appropriate usage.

Instructions for the Paper-setter and Students: There would be five questions in all and the students would attempt all. All questions carry equal marks. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each (exception: objective-type or exercise-based questions, if any). The students would attempt any 5, out of the given 6 (2 x 5 = 10 Marks). Question numbers 2, 3 and 4, each of 10 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 4 exercise based questions having multiple parts and the students would attempt any 2. (5 x 2 = 10 Marks).

Instructions for the Practical Exam:

Listening Skills: 10 Marks

Speaking Skills: 10 Marks

Syllabus:

Unit-I: Effective Communication:

Theory: Defining Communication; Principles of Effective Communication; Understanding the Objectives, the Process and Different Types of Communication; Body Language; Identifying and Overcoming Barriers to Communication; Internet Communication - Language of the Internet.

Unit-II: Listening and Speaking:

Theory: Listening- The Listening Process; Objectives and Types of Listening; Identifying and Overcoming Barriers to Listening; Building Effective Listening Skills.

Speaking- Characteristics and Principles of Oral communication; Importance of Effective Speaking; Features of an Effective Speech; Different Types of Speech - Rhetoric; Small Talk; Elevator Speech; Public Speech; Extempore.

Practical training for Listening: Listening to audio clipping and summing it up, identifying key points, answering one-word or short questions.

Practical Training for Speaking: The Face-to-face Interview including Speaking Words using Correct Pronunciation; Introducing Self, Speaking for 2 minutes on a Topic, Context-based Speaking - Greeting and Leave taking, Offering and responding to offers, Requesting and responding to requests, Congratulating and expressing disappointment, Expressing sympathy and Condolences, Asking questions, answering and making polite requests, Apologizing and Forgiving, Complaining, Persuading and Warning, Asking for and Giving Information, Giving instruction and Expressing Opinion, Getting and giving Permission.

Unit-III:

Reading and Writing:

Reading - Objectives and Types of Reading; Strategies for Reading Comprehension; Reading between the Lines; Comprehension of an Unseen Passage.

Writing – Qualities of Good Writing; the Process of Writing.

Writing Activities – Writing an Official Letter, an Application, an Email, a Blog, a Twitter message.

Unit-IV:

Non-Detailed: Vocabulary Building: Formation of Words using Affixes, Prefixes and Suffixes; Derivation: Formation of Adjectives, Nouns and Verbs; Back Formation; Homophones and Homonyms; Commonly used Foreign Words in English, Idioms and Phrases.

Suggested Reading:

Carrell, J. C, et all. *Writing and Grammar: Communication in Action, Ruby Level*. Prentice Hall, 2001.

Kumar, Sanjay, and PushpLata. *Communication Skills*.OUP, 2011.

Mukerjee, Hory Shankar. *Business Communication: Connecting a Work*. OUP, 2013.

Raman, Meenakshi, and Sangeeta Sharma.*Technical Communication: Principles and Practice*. 2nd edition.OUP, 2011.

CO-PSO matrix :

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2	2	3	2.5	2.25
LO 2	2.25	2.25	2.5	2.5	2.25
LO 3	2.25	2.25	2.5	2.75	2.25
LO 4	2.25	2.25	2.5	3	2
Average	2.18	2.18	2.62	2.68	2.18

CO-PO matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	2.75	3	2	3	2	3	2	3
LO 2	2.25	3	2	3	3	3	2	3
LO 3	2.75	2	2	3	3	2.75	2	3
LO 4	2.25	3	2	3	3	2.75	2	2
Average	2.5	2.75	2	3	2.75	2.87	2	2.75

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2	2	3	2.5	2.25	2.75	3	2	3	2	3	2	3
LO 2	2.25	2.25	2.5	2.5	2.25	2.25	3	2	3	3	3	2	3
LO 3	2.25	2.25	2.5	2.75	2.25	2.75	2	2	3	3	2.75	2	3
LO 4	2.25	2.25	2.5	3	2	2.25	3	2	3	3	2.75	2	2
Average	2.18	2.18	2.62	2.68	2.18	2.5	2.75	2	3	2.75	2.87	2	2.75

Table No. 7 Open Elective Courses offered by the Department

The department offers the following Open Elective Courses, preferably in first three semesters (1 to 3).

Course Code	Course Title	Credits
MA/ENG/9/OEC1	Study of William Shakespeare	4
MA/ENG/9/OEC2	Introduction to English Literature	4
MA/ENG/9/OEC3	Communication skills and Usage of English Language	4
MA/ENG/9/OEC4	Indian Literatures in English Translation	4
Total		

Open Elective Course (OEC)-1
(For the students of other departments)
Study of William Shakespeare

Course Code: MA/ENG/9/OEC 1
Total Credits: 04
Time:3 Hrs

Total Marks:100
Internal Assessment:30
Theory: 70

Course Objective: The aim of this course is to introduce the students the works of Shakespeare, though the focus of this paper is on the representative works of the writer, the idea is to make students understand the depth and richness of his works which are still relevant to the present-day readers.

Learning Outcomes (LOs): The learners will:

1. Be able to understand the Renaissance, an important phase in English Literature.
2. Learn the specific characteristics of Elizabethan period.
3. Learn about the genre of sonnet, especially that of Shakespearean sonnets.
4. Learn how to critically analyse and evaluate a play by identifying its themes, characters, plot, setting etc.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit-I: Renaissance; Elizabethan Age; Rise of Humanism; Rise of Nationalism.

Unit-II: *Julius Caesar*

Unit-III: **Sonnets:** 1, 18, 29, 30, 65, 73

Unit-IV: **Non-Detailed:** *King Lear; Hamlet; Macbeth; Romeo Juliet; As You Like It; The Tempest; Henry IV.*

Suggested Reading:

Bates, Jonathan. *The Genius of Shakespeare*. 10th Anniversary edition. OUP, 2012.

Bloom, Harold. *Shakespeare: The Invention of the Human*. Riverhead Books, 1999.

Boyce, Charles, and David Allen White. *Shakespeare A to Z: The Essential Reference to His Plays, His Poems, His Life and Times, and More*. Facts on File, 1990.

Crystal, David, and Ben Crystal. *Shakespeare's Words: A Glossary and Language Companion*. Penguin Books, 2002.

Dobson, Michael, et al., eds. *The Oxford Companion to Shakespeare*. 2nd edition. OUP, 2015.

Chaudhary Devi Lal University, Sirsa

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.75	2.5	2.5	2.5	2.5
LO 2	2.0	2.5	2	2.5	2.5
LO 3	2.5	2.5	2.5	3	2.5
LO 4	3	2.5	2.5	2.5	2.5
Average	2.56	2.5	2.37	2.62	2.5

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	2.75	2	2	2.5	2	2	2.75	3
LO 2	2.5	2.5	2	2.5	3	2.5	2.75	3
LO 3	2.5	2	2	2.5	3	2.5	2.75	2.5
LO 4	2.75	2.5	2	3	3	2.5	2.75	2.5
Average	2.62	2.25	2	2.62	2.75	2.37	2.75	2.75

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.75	2.5	2.5	2.5	2.5	2.75	2	2	2.5	2	2	2.75	3
LO 2	2.0	2.5	2	2.5	2.5	2.5	2.5	2	2.5	3	2.5	2.75	3
LO 3	2.5	2.5	2.5	3	2.5	2.5	2	2	2.5	3	2.5	2.75	2.5
LO 4	3	2.5	2.5	2.5	2.5	2.75	2.5	2	3	3	2.5	2.75	2.5
Average	2.56	2.5	2.37	2.62	2.5	2.62	2.25	2	2.62	2.75	2.37	2.75	2.75

Open Elective Course (OEC)-2
(For the students of other departments)
Introduction to English Literature

Course Code: MA/ENG/9/OEC 2
Total Credits: 04
Time: 3 Hrs

Total Marks: 100
Internal Assessment: 30
Theory: 70

Course Objective: The aim of this Course is to acquaint the students with the overview of literature in general and English literature in particular. Besides, the Course will orient the students towards the study of English literature.

Learning Outcomes (LOs): The learners will:

1. Be exposed to the basic functions and nature of literature.
2. Understand literature and its place in society.
3. Get to know various domains of knowledge and their relationship with literature.
4. Know various genres in literature and their types.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit-I: Literature: What is Literature?; Objectives of the Study of Literature; Form and Content; Literature and Society; Literature and History; Literature and Films; Prose Forms; Literature as pie of Life.

Unit-II: Drama: Elements of Drama; Miracle and Mystery Plays; One Act Play; Five Act Plays; Stage Setting.
Rabindranath Tagore: *Chandalika*

Unit-III: Poetry: Elements of Poetry; Major Types of Poetry; Poetic Process.
William Wordsworth: "Daffodils"
Robert Frost: "Birches"

Unit-IV: Non-Detailed: Novel: Elements of Novel; Types of Novel-- Romance, Comic Epic in Prose, Epistolary Novel, Historical Novel, Social Novel, Psychological Novel.

Suggested Reading:

Boulton, Marjorie. *The Anatomy of Drama*. 1st ed., Routledge, 1960.

Forster, E. M. *Aspects of the Novel*. Mariner Books, 1956.

Fowler, Alastair. *Kinds of literature*. OUP, 1985.

Fowler, Roger, ed. *Dictionary of Modern Critical Terms*. Rev. edition. Routledge, 2006.

Greene, Ronald, ed. *The Princeton Encyclopaedia of Poetry and Poetics*. 4th edition. Princeton University Press, 1993.

Wellek, Rene, and Austin Warren. *Theory of Literature*. Penguin Books, 1963.

CO-PSO Matrix:

Cos	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2.5	2	2.5	3	3
LO 2	2.5	2	2.5	3	3
LO 3	2.75	2	3	2.75	2.5
LO 4	2.75	2	3	2.75	2.5
Average	2.62	2	2.75	2.87	2.75

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	3	3	3	2	2	2	2.5	2.5
LO 2	2.5	3	3	2	3	2	2.5	2.5
LO 3	2.5	2	3	2	3	2	2.5	2.5
LO 4	3	3	3	2	2.5	2	2.5	2
Average	2.75	2.75	3	2	2.62	2	2.5	2.37

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2.5	2	2.5	3	3	3	3	3	2	2	2	2.5	2.5
LO 2	2.5	2	2.5	3	3	2.5	3	3	2	3	2	2.5	2.5
LO 3	2.75	2	3	2.75	2.5	2.5	2	3	2	3	2	2.5	2.5
LO 4	2.75	2	3	2.75	2.5	3	3	3	2	2.5	2	2.5	2
Average	2.62	2	2.75	2.87	2.75	2.75	2.75	3	2	2.62	2	2.5	2.37

Open Elective Course (OEC)-3
(For the students of other departments)
Communication Skills and Usage of English Language

Course Code: MA/ENG/9/OEC 3

Total Credits: 04

Time: 3hrs

Total Marks: 100

Theory: 70 Marks

Internal Assessment: 30 Marks

Course Objectives:

The need for learning and mastering the English language has, over the last few decades, grown enormously all over the world; India is no exception. It being a foreign language, the Indians have to learn English by effort. Despite this, people are no longer content with just being able to manage with writing and speaking English, they want to be able to write and speak perfect English to make them understood not only by fellow Indians, but also by the English-knowing people of foreign countries. Thus, this course will help students in understanding the subtle nuances of English language and acquire the art of spoken English.

Learning Outcomes: The Learner will develop:

1. Understanding of Phonology as mechanics of language.
2. Better English pronunciation and better Spoken English.
3. Better writing skills.
4. Understanding of effective Communication

Instructions for the Paper-setter:

Five questions are to be set in all. All questions shall carry equal marks, i.e., 14 marks each.

Question number 1 shall comprise 09 short answer questions, to be answered in 150 words each (exception: objective-type or exercise-based questions, if any), taking three from first three units. The students shall attempt any 07.

Questions number 2, 3 and 4 shall be detailed answer type questions with internal choice from first three units. **Question number 5** from Unit 4 shall be in the form of short notes. There shall be 07 parts out of which students shall attempt 04 parts in about 250 words; each part will carry 3.5 marks.

In addition to detailed answer/ essay/ short notes type questions, the examiner shall ask objective type/exercise-based questions from the topics Three-term Label (writing three-term label for the consonant sounds in given words), Transcription (transcription of English words to IPA), Structure of syllable (writing two or three words for given syllable structures), Primary Stress (Marking primary stress on English words), Weak Forms (Giving IPA transcription of underlined weak forms in sentences), Intonation (Marking Falling/rising tone on sentences, giving reasons for the tone), Dialogue-based questions, writing a letter or an application or an email, summarizing the given passage, etc.

Instructions for Students:

All questions are compulsory. All questions carry equal marks. 07 out of 09 sub-questions of question no. 1 have to be answered in about 150 words each (exception: objective-type or exercise-based questions, if any). Question number 2, 3, and 4 shall be essay type questions from the first three units and shall be of 14 marks each to be attempted in about 800-900 words (exception: objective-type or exercise-based questions). Question no. 5 shall be from Unit 4, from which 07 topics shall be given,

out of which, 04 have to attempted in the form of short notes of about 250 words each. Each part shall carry 3.5 marks, making a total of 14 marks for 04 to be attempted.

Syllabus:

Unit 1:Phonetics: Different Organs of Speech, Place and Manner of Articulation, IPA Symbols, Phonetic Transcription of English words to IPA, Intonation (Rising and Falling tones only) and Functions of Intonation.

Unit 2:Communication: Definition of Communication, Process of Communication; Types of Communication; Barriers to Communication.

Context-based Communication: Introducing Self; Greeting and Leave taking; Offering and Responding to offers; Requesting and Responding to requests; Congratulating; Expressing sympathy and Condolences; Expressing Disappointments; Asking Questions and making polite requests; Apologizing; Forgiving; Complaining; Persuading; Warning; Asking for and Giving Information; Giving Instruction; Getting and Giving Permission; Expressing Opinion.

Unit 3:Written Communication: C's of Written Communication, Types of letters, Different Formats of Letters, Topic sentence and supporting statements in paragraphs, Application and Letter writing (formal and informal), email, summarizing and abstracting.

Unit 4:Non-Detailed :Vowels and Consonants, Diphthongal glides, Three-term Label,Syllable and it's Structures, Syllabic Consonants, Word Accent (Primary Stress),Weak Forms, Verbal Communication, Non-Verbal Communication, Grapevine Communication.

Suggested Reading:

Balasubramanian. T. *A Text Book of English Phonetics for Indian Students*. Chennai: Macmillan Publishers India Ltd., 1981.

Bansal, R. K., and J. B. Harrison. *Spoken English for India*. Madras: Orient Longman, 1983.

Gerson, Sharon J.,and Steven M. Gerson.*Technical Writing*. Singapore: Longman, 2000.

Lesikar, and Pettit.*Business Communication*, Delhi: A.I.T.B.S. Publishers, 2002.

Sethi, J,andD.V. Jindal.*A Handbook of Pronunciation of English Words*. New Delhi: Prentice- Hall of India, 1993.

Sethi, J, and P.V. Dhamija.*A Course in Phonetics and Spoken English*. New Delhi: Prentice- Hall of India, 1997.

CO-PSO matrix :

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	2	2	3	2.5	2.25
LO 2	2.25	2.25	2.5	2.5	2.25
LO 3	2.25	2.25	2.5	2.75	2.25
LO 4	2.25	2.25	2.5	3	2
Average	2.18	2.18	2.62	2.68	2.18

CO-PO matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	2.75	3	2	3	2	3	2	3
LO 2	2.25	3	2	3	3	3	2	3
LO 3	2.75	2	2	3	3	2.75	2	3
LO 4	2.25	3	2	3	3	2.75	2	2
Average	2.5	2.75	2	3	2.75	2.87	2	2.75

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	2	2	3	2.5	2.25	2.75	3	2	3	2	3	2	3
LO 2	2.25	2.25	2.5	2.5	2.25	2.25	3	2	3	3	3	2	3
LO 3	2.25	2.25	2.5	2.75	2.25	2.75	2	2	3	3	2.75	2	3
LO 4	2.25	2.25	2.5	3	2	2.25	3	2	3	3	2.75	2	2
Average	2.18	2.18	2.62	2.68	2.18	2.5	2.75	2	3	2.75	2.87	2	2.75

**Open Elective Course (OEC)-4
(For the students of other departments)
Indian Literatures In Translation**

Course Code: MA/ENG/9/OEC 4

Total Credits: 04

Time: 3hrs

Total Marks:100

Theory: 70 Marks

Internal Assessment: 30 Marks

Course Objective: The aim of this Course is to acquaint the students with Indian literatures in translation. Besides, the Course will orient the students towards the assessment and appreciation of Indian literary heritage.

Learning Outcomes:(Los):

1. The student would learn the technicalities of translation.
2. The student would learn about the other cultures as presented in the prescribed work of translation.
3. The student would learn the nuances of language and its functions.
4. The student would gain knowledge of some texts which otherwise they would never have come across.

Instructions for the Paper-setter and Students: There would be five questions in all, and the students would attempt all. Question number 1 would comprise 6 short answer questions from Units 1, 2 and 3, to be answered in about 150 words each. The students would attempt any 5, out of the given 6 (2 x 5=10 Marks). Question numbers 2, 3 and 4, each of 15 marks, would be detailed answer questions with internal choice from units 1, 2 and 3. Question number 5 would be from Unit 4, Non-detailed Study. There would be 5 questions in the form of short notes and the students would attempt any 3 in about 200 words each. (5 x 3=15 Marks).

Syllabus:

Unit I: Premchand: “The Shroud”, “Power of Curse”, “Penalty”, “Ctastrophe”, “Two Bullocks”, “ Thakur’s Well”

Unit II: Girish Karnad: Tughlaq

Unit III: Amrita Pritam: “I Call upon Waris Shah Today.” “A Letter”, “My Address”

Nissim Ezekiel: “Night of the Scorpion”, “Patriot”, “Professor”

Unit IV: Non-detailed: Gandhi: “The Canker of Untruth”, Vivekananda: “Chicago Address”, Tagore: “Nationalism in India”, Mahasweta Devi’s *Mother of 1084*, Taslima Nasreen’s *Lajja*, Premchand’s *The Chess Players*, Amrita Pritam’s *Pinjar*, Tagore’s *The Home and the World*, Bhisham Sahni’s *Tamas*

Suggested Reading:

1. Das, Bijay Kumar. *A Handbook of Translation Studies*. Atlantic Pub.2011.
2. Gentzler, Edwin. *Contemporary Translation Theory*. Cromwell Press,2001.
3. Basnet, Susan .*Translation Studies*. Routledge,2002.

4. Basnett, Susan and Harish Trivedi. *Post-Colonial Translation: Theory and Practice*. Ed. Routledge,1998.
5. Munday, Jeremy. *Introducing Translation Studies*. Routledge,1998.

CO-PSO Matrix:

COs	PSO1	PSO2	PSO3	PSO4	PSO5
LO 1	3	2.5	2.5	2.5	2.5
LO 2	3	2.5	2.5	2.5	2.5
LO 3	2.5	2.5	2.5	2.5	3
LO 4	2.5	2.5	2.5	2.5	2.5
Average	2.75	2.5	2.5	2.5	2.62

CO-PO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO 1	3	2.5	2	2.5	2.75	2	2.5	2.75
LO 2	2.75	2.5	2	2.5	2.75	2	2.5	2.75
LO 3	3	2	2	2.5	2.50	2	2.75	3
LO 4	2.5	2	2	2.5	2.5	2	3	2.5
Average	2.81	2.25	2	2.5	2.62	2	2.68	2.75

CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO 1	3	2.5	2.5	2.5	2.5	3	2.5	2	2.5	2.75	2	2.5	2.75
LO 2	3	2.5	2.5	2.5	2.5	2.75	2.5	2	2.5	2.75	2	2.5	2.75
LO 3	2.5	2.5	2.5	2.5	3	3	2	2	2.5	2.50	2	2.75	3
LO 4	2.5	2.5	2.5	2.5	2.5	2.5	2	2	2.5	2.5	2	3	2.5
Average	2.75	2.5	2.5	2.5	2.62	2.81	2.25	2	2.5	2.62	2	2.68	2.75

Approved in the meeting of Staff Council: 02.02.2021, 24.02.2021 & 04.03.2021

Approved in the meeting of PGBOS: 22.03.2021

Minor amendments approved in PGBOS- 17.07.2021

Approved in the meeting of Faculty of Humanities: 08.04.2021 & 17.07.2021

Date of Implementation: Semester 1	July 2021
Semester 2	January 2022
Semester 3	July 2022
Semester 4	January 2023

Note:**1**

Each university teaching department shall offer at least two elective open courses for the students of other departments. **The students** will have the option to choose such elective courses from those offered at the University level or MOOCs/SWAYAM courses to earn requisite credits for their degree so as to earn 10% of the total programme credit. The student will opt these course(s) in 2nd and/or 3rd semester of their respective academic programme.

MOOC/SWAYAM courses are free but a specified amount is charged from the candidate appearing in examination and that is returned to the account from which it is paid by the student provided the student successfully complete the course in the same session his/her enrolment in the course. The university will not attend or responsible for any matter related to the fee charged for the MOOC.

Note: 2

The tutorial shall be allotted in each Core Course and Discipline Specific Courses strictly in accordance with the UGC norms

Learning Outcomes based Curriculum Framework

(LOCF)

For

M.A. (Hindi)

Post Graduate Programme



Department of Hindi

Chaudhary Devi Lal University

Sirsa-125055

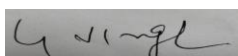
2021-2022

U. Singh

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Table of Contents

1. About the Department
2. Learning Outcomes based Curriculum Framework
 - 2.1 Objectives of the Programme
 - 2.2 Programme Outcomes (POs)
 - 2.3 Programme Specific Outcomes (PSOs)
3. Programme Structure



1. About The Department

The Department of Hindi was established in 2017 as an independent department. The Department has made a niche for itself in a short span of four years. A large number of students of the department have qualified NET, JRF exam. Its alumni have opted to pursuing higher studies in different universities of North India. The Department has produced commendable alumni who have under taken to doctoral research. The Department has organized National Seminar and Workshop on contemporary issues. It has also organized scores of extension lectures of eminent educationists on Various topics.

The Department provides a decent platform for live wire interactions among thinkers, writers and teachers on one hand and between intellectuals and the students on the other hand. It is rapidly becoming a center of the linguistic- cultural transformation. The department has also ensured regular dialogue with college teachers and interest in promoting Hindi language at UG level two.

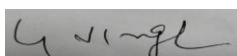
Faculty members are well qualified regularly contributing to research through their research publications.

Programmes Offered:

- M.A. Hindi

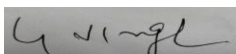
2. Learning Outcomes Based Curriculum Framework :

The Choice Based Credit Scheme (CBCS) has evolved into learning outcomes based curriculum framework and provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill-based courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Grading system provides uniformity in the evaluation and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations which enables the student to move across institutions of higher learning. The uniformity in evaluation system also enables the potential employers in assessing the performance of the candidates.



2.1 Objectives Of The Programme

- To train students in communication skills in Hindi
- To introduce students to the tools of literary scholarship and sharpen their critical ability to interpret and evaluate all forms of literary representations and expressions.
- To prepare students for employability by honing their professional competencies.
- To strengthen a global worldview through a well-structured curriculum and university/community partnership.
- To promote increased interface between technology and Hindi studies.



2.2 Programme Outcomes (POs):

PO1	Knowledge: Prepare students academically by imparting a detailed knowledge and understanding of selected fields of study in the core disciplines of Humanities and languages (Hindi, Punjabi, Sanskrit and English) in order to promote their cognitive growth and enable them apply this knowledge in their personal, professional and social life.
PO2	Specialization and Employability: Enhance communication skills, soft skills and linguistic proficiency to make them successful in the career they opt.
PO3	Orientation towards Inter-disciplinarity: Demonstrate a general understanding of the concepts and principles of selected areas of study outside core disciplines of humanities and languages.
PO4	Application Development: Students shall be introduced to Indian and western aesthetics and works in translation to enable them to critically analyse all literary genres by applying theoretical concepts derived from various disciplines while situating them in the broader frameworks of historical movements, literary criticism and theory.
PO5	Critical Thinking: Develop critical skills to analyse literatures in English, Punjabi, Sanskrit and Hindi with focus on issues relating to ethnic groups, race, class, gender and alternative sexualities, exclusion, representation, environment and ecological issues and trends like multiculturalism, post colonialism, post-humanism, migration etc.
PO6	IT-based Skills and Research Ethics: Introduce students to basics of research methodology, research ethics, computer application and ICT- enabled learning practices.
PO7	Problem Solving: Train the students for innovative practices which will help them understand the underlying connection between literature, politics and society.
PO8	Ethics and Leadership: Enhance their ability to embrace and practice moral and ethical values so as to enable them to take leadership roles in their personal, professional and social life.

2.3 Programme Specific Outcomes (PSOs)

पाठ्यक्रम अपेक्षित परिणाम(PSOs)

After Completing the post Graduate Programme, A learner will be able to:

PSO1	भाषा के सामान्य सिद्धांतों व हिंदी भाषा के व्यावहारिक प्रयोग का ज्ञान।
PSO2	साहित्य संसार व वास्तविक संसार के यथार्थ के प्रति आलोचनात्मक। संवेदनशील दृष्टि व व्यक्तित्व का विकास।
PSO3	हिंदी साहित्य की विभिन्न धाराओं व परंपराओं की समझ विकसित। होगी विभिन्न युगों, धाराओं व रचनाकारों के साहित्य की विशिष्टताओं की समझ बढ़ेगी। समकालीन साहित्य के विविध रूपों, आंदोलनों, विमर्शों के माध्यम से अपने युग का बोध।
PSO4	साहित्य की विभिन्न विधाओं तथा जनसंचार के माध्यमों के लिए रचनात्मक लेखन की क्षमता में अभिवृद्धि। साहित्य के सौंदर्य, कला तथा वैचारिक मूल्यों के प्रति विवेक का निर्माण होगा।
PSO5	जीवनयापन के लिए भाषायी कौशल, कंप्यूटर, अनुवाद, पत्रकारिता, जनसंचार, संगमंच, चलचित्र आदि के बारे में सैद्धांतिक व व्यावहारिक ज्ञान। भारतीय समाज और सांस्कृतिक जीवन के विभिन्न पक्षों में अंतर्निहित एकता परिचय व पहचान होगी। देश व समाज की एकता-अखंडता की भावना का विकास। साहित्य के माध्यम से मानवता के सार्वभौम तत्वों की पहचान।

3. Programme Structure(PS):

M.A.Hindi – a four-semester Post graduate programme is 100 credits weightage consisting of Core Courses (CC), Discipline Specific Elective Courses (DSC), Skill Enhancement Courses (SEC) and Open Elective Courses (OEC) for the completion of this programme and award of degree.

- a. CC-Core Courses;
- b. DSC- Discipline Specific Elective Courses;
- c. SEC-Skill Enhancement Courses;
- d. OEC-Open Elective Courses

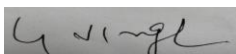


Table 1: Courses/Credit Scheme (Semester Wise)

Semester	Core Courses (CC)		Discipline Specific Elective Courses (DSC)		Skill Enhancement Courses (SEC)		Open Elective Courses (OEC)		Grand Total Credits
	No. of Courses	Total Credits	No. of Courses	Total Credits	No. of Courses	Total Credits	Total 8 credits are to be earned from courses run by other departments or through SWAYAM (MOOCs) students have to opt. open elective courses in consultation with the chairperson of the Department and the Director, University Centre for outreach Programmes and Extension		
1	4	16	2	8					24
2	3	12	2	8	1	4			24
3	4	16	1	4	1	4			24
4	3	12	2	8	0	0			20
Total	Core Credits	56	Discipline Specific Elective Credits	28	Skill Enhancement Credits	08	Open Elective Credits	08	92+8=100
%age	Core Credits	56	Discipline Specific Elective Credits	28	Skill Enhancement Credits	8	Open Elective Credits	8	100

Note: Please add “P” if practical is a part in any course

Note:-1 Reference Resolution No 22 of the meeting of Academic Council held on 20.04.2021.

Many PG and UG Massive Open Online Courses (MOOC) are available on SWAYAM Portal and the Academic Council resolved to adopt all Courses available on SWAYAM Portal. The Council also resolved that MOOCs Courses can be offered as Core Courses or/and Open Elective Courses and the percentage of such Courses can be up to 40 percent of the total credits of a particular Degree in accordance with the UGC Guidelines. The students will submit the MOOC certificate after passing the particular Courses to the MOOC Coordinator of the department/Chairperson who will submit the certificate to the Controller of Examination through the MOOC Convenor appointed by the university. The Controller of Examination shall ensure the inclusion of the MOOC's award in the DMC/Degree of the concerned students.

Note:-2 The Programmes where there is no Practical /Lab. work can assign 1 Hour/ per week per Course (Core Courses and Open Elective Courses) for tutorial in order to facilitate personal interaction and close and frequent contact between the students and the teacher. The workload of tutorial class shall be counted towards the workload of teachers but it will not be counted towards the total credits of the Programme.

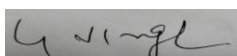
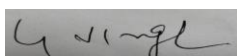


Table 2: Detailed Break-Up of Credit Courses (Semester Wise):

	Core Courses	Discipline Specific Elective Courses	Skill Enhancement Courses	Open Elective Courses	Total Courses		
	CC	DSC	SEC	OEC			
Semester 1	CC1	DSC1		OECs Offered by other departments or MOOCs (May be enrolled in any of four semesters) student have to opt. open elective courses in consultation with chairperson of the Department and Director, University Centre for outreach Programmes and Extension	6		
	CC2						
	CC3	DSC2					
	CC4						
Semester 2	CC5	DSC3	SEC1		OECs Offered by other departments or MOOCs (May be enrolled in any of four semesters) student have to opt. open elective courses in consultation with chairperson of the Department and Director, University Centre for outreach Programmes and Extension	6	
	CC6	DSC4					
	CC7						
Semester 3	CC8	DSC5	SEC2			OECs Offered by other departments or MOOCs (May be enrolled in any of four semesters) student have to opt. open elective courses in consultation with chairperson of the Department and Director, University Centre for outreach Programmes and Extension	6
	CC9						
	CC10						
	CC11						
Semester 4	CC12	DSC6	-	OECs Offered by other departments or MOOCs (May be enrolled in any of four semesters) student have to opt. open elective courses in consultation with chairperson of the Department and Director, University Centre for outreach Programmes and Extension			5
	CC13	DSC7					
	CC14						
	Total						23+2=25

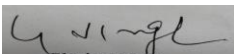
Table 3: Course Code And Title Along With Credits Detail:**Semester 1**

Course Code	Course Title			
		Theory	Practical	Total
MA/HIN/1/CC/1	भाषाविज्ञान एवं हिंदी भाषा (प्रथम)	4	0	4
MA/ HIN /1/CC/2	हिंदी साहित्य का इतिहास	4	0	4
MA/ HIN /1/CC/3	आधुनिक कथा साहित्य	4	0	4
MA/HIN/1/CC/4	स्वतंत्रतापूर्व आधुनिक हिंदी काव्य	4	0	4
	Students can Choose any one from DSC1 & DSC2			
MA/ HIN/1/DSC1	भारतेन्दु हरिश्चंद्र: एक विशेष अध्ययन	4 0 4		
MA/ HIN/1/DSC2	जयशंकर प्रसाद: एक विशेष अध्ययन			
	Students can Choose any one from DSC3&DSC4			
MA/ HIN/1/DSC3	सूर्यकांत त्रिपाठी निराला: एक विशेष अध्ययन	4 0 4		
MA/ HIN/1/DSC4	मुक्तिबोध: एक विशेष अध्ययन			
	Total	24	00	24



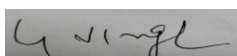

Semester-2

MA/HIN/2/CC/1	भाषा विज्ञान एवं हिंदी भाषा (द्वितीय)	4	0	4
MA/HIN/2/CC/2	भक्ति एवं रीतिकालीन काव्य	4	0	4
MA/HIN/2/CC/3	हिंदी कथेतर साहित्य	4	0	4
	Students can Choose any one from DSC5&DSC6			
MA/HIN/2/DSC5	कबीरदास: एक विशेष अध्ययन	4	0	4
MA/HIN/2/DSC6	सूरदास: एक विशेष अध्ययन			
	Students can Choose any one from DSC7&DSC8			
MA/HIN/2/DSC7	जायसी: एक विशेष अध्ययन	4	0	4
MA/HIN/2/DSC8	तुलसीदास :एक विशेष अध्ययन			
MA/HIN/1/SEC1	हिंदी सम्भाषण एवं सम्प्रेषण कौशल	4	0	4
	Total	24	00	24




Semester 3

MA/HIN/3/CC/1	भारतीय काव्यशास्त्र के सिद्धांत	4	0	4
MA/HIN/3/CC/2	स्वातंत्र्योत्तर आधुनिक हिंदी काव्य	4	0	4
MA/HIN/3/CC/3	स्वातंत्र्योत्तर हिंदी उपन्यास	4	0	4
MA/HIN/3/CC/4	हिंदी साहित्यालोचन	4	0	4
	Students can Choose any one from DSC9&DSC10			
MA/HIN/3/DSC9	प्रेमचंद: एक विशेष अध्ययन	4	0	4
MA/HIN/3/DSC10	महादेवी वर्मा: एक विशेष अध्ययन			
MA/HIN/2/SEC2	कम्प्यूटर का हिंदी में अनुप्रयोग	4	0	4
	Total	24	00	24



Semester 4

MA/HIN/4/CC/1	पाश्चात्य काव्यशास्त्र के सिद्धांत	4	0	4
MA/HIN/4/CC/2	भारतीय साहित्य	4	0	4
MA/HIN/4/CC/3	हरियाणा का हिंदी साहित्य	4	0	4
	Students can Choose any one from DSC11&DSC12			
MA/HIN/4/DSC11	प्रवासी हिंदी साहित्य			
MA/HIN/4/DSC12	जनसंचार माध्यम एवं हिंदी	4	0	4
	Students can Choose any one from DSC13&DSC14			
MA/HIN/4/DSC13	हिंदी नाटक			
MA/HIN/4/DSC14	हिंदी अनुवाद	4	0	4
	Total	20	00	20

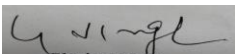


Table 4: Courses Offered By The Department Of Hindi:

Course Code	CORE COURSES	Theory/credit
MA/HIN/1/CC/1	भाषाविज्ञान एवं हिंदी भाषा (प्रथम)	04
MA/HIN/1/CC/2	हिंदी साहित्य का इतिहास	04
MA/HIN/1/CC/3	आधुनिक कथा साहित्य	04
MA/HIN/1/CC/4	स्वतंत्रतापूर्व आधुनिक हिंदी काव्य	04
MA/HIN/2/CC/5	भाषा विज्ञान एवं हिंदी भाषा (द्वितीय)	04
MA/HIN/2/CC/6	भक्ति एवं रीतिकालीन काव्य	04
MA/HIN/2/CC/7	हिंदी कथेत्तर साहित्य	04
MA/HIN/3/CC/8	भारतीय काव्यशास्त्र के सिद्धांत	04
MA/HIN/3/CC/9	स्वातंत्र्योत्तर आधुनिक हिंदी काव्य	04
MA/HIN/3/CC/10	स्वातंत्र्योत्तर हिंदी उपन्यास	04
MA/HIN/3/CC/11	हिंदी साहित्यालोचन	04
MA/HIN/4/CC/12	पाश्चात्य काव्यशास्त्र के सिद्धांत	04
MA/HIN/4/CC/13	भारतीय साहित्य	04
MA/HIN/4/CC/14	हरियाणा का हिंदी साहित्य	04

Table 5: Discipline Specific Elective Courses Offered by the Department

Discipline Specific Elective Courses (DSC)

MA/ HIN/1/DSC1	भारतेन्दु हरिश्चंद्र: एक विशेष अध्ययन	4
MA/ HIN/1/DSC2	जयशंकर प्रसाद: एक विशेष अध्ययन	
MA/ HIN/1/DSC3	सूर्यकांत त्रिपाठी निराला: एक विशेष अध्ययन	4
MA/HIN/2/DSC4	मुक्तिबोध: एक विशेष अध्ययन	
MA/HIN/2/DSC5	कबीरदास: एक विशेष अध्ययन	4
MA/HIN/4/DSC6	सूरदास: एक विशेष अध्ययन	
MA/HIN/4/DSC7	जायसी: एक विशेष अध्ययन	4
MA/HIN/4/DSC8	तुलसीदास: एक विशेष अध्ययन	
MA/HIN/4/DSC9	प्रेमचंद: एक विशेष अध्ययन	4
MA/HIN/4/DSC10	महादेवी वर्मा: एक विशेष अध्ययन	
MA/HIN/4/DSC11	प्रवासी हिंदी साहित्य	4
MA/HIN/4/DSC12	जनसंचार माध्यम एवं हिंदी	
MA/HIN/4/DSC13	हिंदी नाटक	4
MA/HIN/4/DSC14	हिंदी अनुवाद	
MA/HIN/1/SEC1	हिंदी सम्भाषण एवं सम्प्रेषण कौशल	4
MA/HIN/1/SEC2	कम्प्यूटर का हिंदी में अनुप्रयोग	4

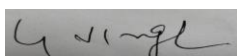


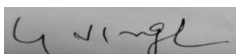


Table 7: Open Electives Courses Offered By The Department

The Department Offers The Following Open Elective Courses, Preferably In First Three Semesters (1 To 3)

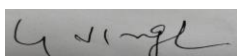
MA/HIN/9/OEC1	सामान्य हिंदी	4
MA/HIN/9/OEC2	हिंदी भाषा और व्याकरण	
MA/HIN/9/OEC3	प्रयोजनमूलक हिंदी	4
MA/HIN/9/OEC4	हिंदी संचार कौशल	
MA/HIN/9/OEC5	साहित्य की समझ	4
MA/HIN/9/OEC6	अनुवाद सिद्धांत	
	Total	

नोट: निर्धारित मुक्त वैकल्पिक पाठ्यक्रम के अंतर्गत विद्यार्थी दो सेमेस्टर में से किन्हीं दो पाठ्यक्रम (पेपर) का चयन कर सकते हैं।



**Scheme of Examination of M.A. Hindi under CBCS/LOCF for Department of Hindi,
CDLU, Sirsa, w.e.f. Academic Session 2021-22**

प्रथम -सेमेस्टर										
Course Code	Course Title	Course Type	Contact Hours per week			Credits	Theory	Internal Assessment	Total Marks	Duration of Exam
			L	T	Total					
MA/HIN/1/CC1	भाषाविज्ञान एवं हिंदी भाषा (प्रथम)	CC1	4	1	5	4	70	30	100	3 Hours
MA/HIN/1/CC2	हिंदी साहित्य का इतिहास	CC2	4	1	5	4	70	30	100	3 Hours
MA/HIN/1/CC3	आधुनिक कथा साहित्य	CC3	4	1	5	4	70	30	100	3 Hours
MA/HIN/1/CC4	स्वतंत्रतापूर्व आधुनिक हिंदी काव्य	CC4	4	1	5	4	70	30	100	3 Hours
MA/ HIN/1/ DSC1	भारतेन्दु हरिश्चंद्र: एक विशेष अध्ययन	DSC1								
MA/ HIN/1/ DSC2	जयशंकर प्रसाद: एक विशेष अध्ययन	DSC2	4	1	5	4	70	30	100	3 Hours
MA/ HIN/1/DSC3	सूर्यकांत त्रिपाठी निराला: एक विशेष अध्ययन	DSC3								
MA/ HIN/1/DSC4	मुक्तिबोध: एक विशेष अध्ययन	DSC4	4	1	5	4	70	30	100	3 Hours

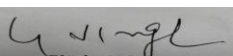



द्वितीय-सेमेस्टर

Course Code	Course Title	Course Type	Contact Hours per week			Credits	Theory	Internal Assessment	Total Marks	Duration of Exam
			L	T	Total					
MA/HIN/2/CC5	भाषा विज्ञान एवं हिंदी भाषा (द्वितीय)	CC5	4	1	5	4	70	30	100	3 Hours
MA/HIN/2/CC6	भक्ति एवं रीतिकालीन काव्य	CC6	4	1	5	4	70	30	100	3 Hours
MA/HIN/2/CC7	हिंदी कथेत्तर साहित्य	CC7	4	1	5	4	70	30	100	3 Hours
MA/HIN/2/DSC5	कबीरदास: एक अध्ययन	DSC5	4	1	5	4	70	30	100	3 Hours
MA/HIN/2/DSC6	सूरदास: एक विशेष अध्ययन									
MA/HIN/2/DSC7	जायसी : एक विशेष अध्ययन	DSC7	4	1	5	4	70	30	100	3 Hours
MA/HIN/2/DSC8	तुलसीदास: एक विशेष अध्ययन	DSC8								
MA/HIN/2/SEC1	हिंदी सम्भाषण एवं सम्प्रेषण कौशल	SEC1	4	1	5	4	70	30	100	3 Hours

तृतीय-सेमेस्टर

Course Code	Course Title	Course Type	Contact Hours per week			Credits	Theory	Internal Assessment	Total Marks	Duration of Exam
			L	T	Total					
MA/HIN/3/CC8	भारतीय काव्यशास्त्र के सिद्धांत	CC8	4	1	5	4	70	30	100	3 Hours
MA/HIN/3/CC9	स्वातंत्र्योत्तर आधुनिक हिंदी काव्य	CC9	4	1	5	4	70	30	100	3 Hours
MA/HIN/3/CC10	स्वातंत्र्योत्तर हिंदी उपन्यास	CC10	4	1	5	4	70	30	100	3 Hours
MA/HIN/3/CC11	हिंदी साहित्यालोचन	CC11	4	1	5	4	70	30	100	3 Hours
MA/HIN/3/DSC9	प्रेमचंद: एक विशेष अध्ययन	DSC9								
MA/HIN/3/DSC10	महादेवी वर्मा: एक विशेष अध्ययन	DSC10	4	1	5	4	70	30	100	3 Hours
MA/HIN/1/SEC2	कम्प्यूटर का हिंदी में अनुप्रयोग	SEC2	4	1	5	4	70	30	100	3 Hours





चतुर्थ-सेमेस्टर

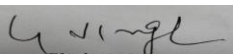
Course Code	Course Title	Course Type	Contact Hours per week			Credits	Theory	Internal Assessment	Total Marks	Duration of Exam
			L	T	Total					
MA/HIN/4/CC12	पाश्चात्य काव्यशास्त्र के सिद्धांत	CC12	4	1	5	4	70	30	100	3 Hours
MA/HIN/4/CC13	भारतीय साहित्य	CC13	4	1	5	4	70	30	100	3 Hours
MA/HIN/4/CC14	हरियाणा का हिंदी साहित्य	CC14	4	1	5	4	70	30	100	3 Hours
MA/HIN/4/DSC11	प्रवासी हिंदी साहित्य	DSC11	4	1	5	4	70	30	100	3 Hours
MA/HIN/4/DSC12	जनसंचार माध्यम एवं हिंदी	DSC12								
MA/HIN/4/DSC13	हिंदी नाटक	DSC13								
MA/HIN/4/DSC14	हिंदी अनुवाद	DSC14	4	1	5	4	70	30	100	3 Hours

U. Singh

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मुक्त वैकल्पिक पाठ्यक्रम

Course Code	Course Title	Course Type	Contact Hours per week		Credits	Theory	Internal Assessment	Total Marks	Duration of Exam
			L	Total					
MA/HIN/9/OEC1	सामान्य हिंदी	OEC1	4	4	4	70	30	100	3 Hours
MA/HIN/9/OEC2	हिंदी भाषा और व्याकरण	OEC2							
MA/HIN/9/OEC3	प्रयोजनमूलक हिंदी	OEC3	4	4	4	70	30	100	3 Hours
MA/HIN/9/OEC4	हिंदी संचार कौशल	OEC4							
MA/HIN/9/OEC5	साहित्य की समझ	OEC5	4	4	4	70	30	100	3 Hours
MA/HIN/9/OEC6	अनुवाद सिद्धांत	OEC6							





प्रथम -सेमेस्टर
MA/HIN/1/CC1
भाषाविज्ञान एवं हिंदी भाषा (प्रथम)

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न पुछे जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे और परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

भाषा व भाषा विज्ञान सिद्धांतों से परिचित कराना।

हिंदी भाषा के विकास, विविध रूप व प्रयोजनमूलकता से परिचित करवाना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. भाषाविज्ञान के विभिन्न अवयवों की जानकारी मिलेगी।
2. भाषायी अध्ययन और साहित्य के भाषायी अध्ययन में मदद मिलेगी।
3. हिंदी भाषा के विकास व उसकी बोलियों का ज्ञान होगा।
4. हिंदी भाषा के विविध रूप व प्रयोजनमूलकता से परिचित होंगे।

खण्ड-एक

भाषा की परिभाषा, भाषा की प्रकृति, भाषा-व्यवस्था, भाषा-व्यवहार, भाषाविज्ञान की परिभाषा, भाषाविज्ञान के अध्ययन की शाखाएँ, ध्वनि उत्पत्ति, ध्वनि यंत्र, ध्वनियों के भेद, ध्वनियों का वर्गीकरण, ध्वनि परिवर्तन के कारण

खण्ड-दो

वाक्य की परिभाषा, वाक्य के प्रकार, अर्थ से अभिप्राय, शब्द एवं अर्थ का सम्बन्ध, अर्थ परिवर्तन के कारण, अर्थ परिवर्तन की दिशाएँ।

खण्ड-तीन

प्राचीन भारतीय लिपियों का इतिहास, देवनागरी लिपि का उद्भव एवं विकास, देवनागरी लिपि की वैज्ञानिकता, देवनागरी लिपि के दोष

खण्ड-चार

वैदिक एवं लौकिक संस्कृत की ध्वन्यात्मक एवं रूपात्मक संरचना पाली, प्राकृत एवं अपभ्रंश की ध्वन्यात्मक एवं रूपात्मक संरचना, हिन्दी भाषा की उपभाषाएँ एवं बोलियाँ, ब्रजभाषा की ध्वन्यात्मक एवं रूपात्मक संरचना, अवधी की ध्वन्यात्मक एवं रूपात्मक संरचना।

पुस्तक सूची

1. सामान्य भाषा विज्ञान, लेखक बाबू राम सक्सेना
2. भाषा विज्ञान की भूमिका, लेखक देवेन्द्रनाथ शर्मा
3. समसामयिक भाषा विज्ञान, लेखक वैष्णव नारंग
4. हिन्दी भाषा का इतिहास, लेखक धीरेन्द्र वर्मा
5. हिन्दी शब्दानुशासन, लेखक पं० किशोरीदास वाजपेयी
6. हिन्दी भाषा : उद्गम और विकास, उदयनारायण तिवारी, भारती भंडार, इलाहाबाद, 1997
7. हिन्दी : उद्भव और विकास, हरदेव बाहरी, किताब महल, इलाहाबाद, 1965
8. देवनागरी लेखन तथा हिन्दी वर्तनी, लक्ष्मीनारायण शर्मा, केन्द्रीय हिन्दी संस्थान, आगरा, 1976
9. देवनागरी, देवीशंकर द्विवेदी, प्रशांत प्रकाशन, कुरुक्षेत्र, 1990
10. आधुनिक भाषा विज्ञान के सिद्धान्त, रामकिशोर शर्मा, लोकभारती प्रकाशन, इलाहाबाद, 1998

Mapping Matrix of Course (MA/HIN/1/CC1)

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/1/CC1) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course (MA/HIN/1/CC1)

CO	PO	PO	PO	PO	PO	PO	PO	PO
	1	2	3	4	5	6	7	8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3
LO4	3	2	3	2	3	3	3	3
Average	3	2.2 5	3	2.25	3	2.25	3	3

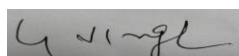
Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course (MA/HIN/1/CC1)

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3: CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	3	3	3	3	3	3	3	3	3
Average	3	2.2 5	3	2.2 5	3	2.25	3	3	3	3	2.25	3	3




MA/HIN/1/CC2
हिंदी साहित्य का इतिहास

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे और परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

हिंदी साहित्य के इतिहास से परिचित करवाना। हिंदी साहित्य के विभिन्न पड़ावों, आंदोलनों की जानकारी प्रदान करना। आधुनिक काल के विभिन्न साहित्यिक आंदोलनों की जानकारी प्रदान करना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. इतिहास व साहित्येतिहास लेखन के महत्व व उसके लेखन की प्रक्रिया का परिचय होगा।
2. हिंदी साहित्य के विभिन्न पड़ावों, आंदोलनों की जानकारी होगी।
3. भारतीय इतिहास के परिवर्तनों व उसके हिंदी साहित्य पर पड़े प्रभावों की पहचान होगी।
4. आधुनिक काल की हिंदी कविता के विकास का परिचय।

खण्ड—एक

साहित्येतिहास से अभिप्राय, साहित्येतिहास दर्शन, हिन्दी साहित्येतिहास की पूर्वपीठिका एवं परम्परा, हिन्दी साहित्येतिहास का आदिकाल के नामकरण एवं काल—निर्धारण की समस्या, आदिकाल की परिस्थितियाँ एवं प्रवृत्तियाँ

खण्ड—दो

भक्तिकाल के उद्भव एवं विकास के कारण, भक्तिकाल स्वर्णयुग क्यों है? भक्तिकाव्य की चारों धाराओं की प्रवृत्तियाँ, भक्तिकाल की परिस्थितियाँ

खण्ड—तीन

रीतिकाल के नामकरण की समस्या, रीतिकाल की परिस्थितियाँ, रीतिबद्ध, रीतिसिद्ध एवं रीतिमुक्त काव्य की प्रवृत्तियाँ, रीतिकालीन गद्य साहित्य, रीतिकाल के कवियों का आचार्यत्व

खण्ड—चार

आधुनिक काल की पृष्ठभूमि, भारतेन्दु युगीन काव्य की प्रवृत्तियाँ, द्विवेदी युगीन काव्य की प्रवृत्तियाँ, छायावाद की प्रवृत्तियाँ, प्रगतिवाद की प्रवृत्तियाँ, प्रयोगवाद एवं नयी कविता की प्रवृत्तियाँ, साठोत्तरी काव्य की प्रवृत्तियाँ, हिन्दी नाटक, निबंध, उपन्यास, कहानी, जीवनी एवं आत्मकथा का उद्भव एवं विकास।

पुस्तक सूची

1. हिन्दी साहित्य का इतिहास, लेखक आचार्य रामचन्द्र शुक्ल, प्रकाशन नागरी प्रचारिणी सभा, काशी (वाराणसी) 1961
2. हिन्दी साहित्य की भूमिका, लेखक आचार्य हजारी प्रसाद द्विवेदी, हिन्दी ग्रन्थ रत्नाकर, बम्बई, 1963
3. हिन्दी साहित्य का आलोचनात्मक इतिहास, लेखक डॉ. रामकुमार वर्मा
4. हिन्दी साहित्य का अतीत (भाग एक एवं दो) लेखक आचार्य विश्वनाथ प्रसाद मिश्र
5. साहित्येतिहास : संरचना और स्वरूप, सुमन राजे, ग्रन्थम कानपुर, 1975

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6. स्वातंत्रयोत्तर हिन्दी साहित्य का इतिहास, लक्ष्मीसागर वार्ष्णेय, राजपाल एण्ड सन्स, दिल्ली, 1982
7. हिन्दी साहित्य का इतिहास, (सम्पादक) नगेन्द्र, नेशनल पब्लिशिंग हाऊस, दिल्ली, 1973
8. हिन्दी साहित्य का वैज्ञानिक इतिहास (दो खण्ड) गणपतिचन्द्र गुप्त, लोकभारती प्रकाशन, इलाहाबाद, 1989 एवं 1990
9. हिन्दी साहित्य का इतिहास, हरिश्चन्द्र वर्मा एवं रामनिवास गुप्त, मंथन पब्लिकेशन, रोहतक, 1982
10. हिन्दी साहित्य का वस्तुपरक इतिहास (दो खण्ड), रामप्रसाद मिश्र, सत्साहित्य भण्डार, दिल्ली, 1998
11. हिन्दी साहित्य के इतिहास पर कुछ नोट्स, प्रो रसाल सिंह, अक्षर प्रकाशन, दिल्ली।

Mapping Matrix of Course MA/HIN/1/CC2

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/1/CC2) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/1/CC2

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.25	3	2.5	2.75	2.25	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/1/CC2

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3 CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.25	3	2.5	2.75	2.25	3	3	3	3	2.25	3	3

MA/HIN/1/CC3

आधुनिक कथा साहित्य

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम के उद्देश्य (Course Objectives)

1. आधुनिक कथा-साहित्य का नई सोच और नये दृष्टिकोणों के संदर्भ में अध्ययन करना

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. आधुनिक कथा-साहित्य का नई सोच और नये दृष्टिकोणों के संदर्भ में अध्ययन कर सकेंगे।
2. आधुनिक कथा-साहित्य का परिवेश और मनुष्य के बीच के संबंधों को बखूबी समझ सकेंगे।
3. हिंदी की व्यवहारिकता गद्य साहित्य के संदर्भ में पुष्ट हो सकेंगी।
4. आधुनिक कथा-साहित्य की परिवेशगत अवमूल्यन पर चोट का मूल्यांकन कर सकेंगे।

खण्ड—एक

गोदान(उपन्यास)— प्रेमचन्द

खण्ड—दो

मैला आँचल (उपन्यास)— फणीश्वर नाथ रेणु

खण्ड—तीन

तेईस हिन्दी कहानियाँ जैनेन्द्र कुमार (सम्पादक) प्रकाशक लोकभारती प्रकाशनए इलाहाबाद (संशोधित रूप)

खण्ड चार

तीनों पुस्तकों पर आधारित सप्रसंग व्याख्या

पुस्तक सूची

1. हिन्दी उपन्यास की प्रवृत्तियाँ, शशिभूषण सिंहल, विनोद पुस्तक मंदिर, आगरा, 1986
2. फणीश्वरनाथ रेणु और मैला आँचल, गोपाल राय, नेशनल पब्लिशिंग हाउस, दिल्ली, 1992
3. समकालीन हिन्दी कहानी, पुष्पपाल सिंह, हरियाणा साहित्य अकादमी, चण्डीगढ़, 1987
4. उपन्यास का आँचलिक वातायन, रामपत यादव, चिन्ता प्रकाशन, दिल्ली, 1985
5. 'मैला आँचल' की रचना—प्रक्रिया, देवेश ठाकुर, वाणी प्रकाशन,, दिल्ली, 1987
6. कथाकार अज्ञेय, चन्द्रकान्त पं. बाँदिवडेकर, हरियाणा साहित्य अकादमी, चण्डीगढ़ 1993
7. प्रसाद के नाटकों का शास्त्रीय अध्ययन, जगन्नाथ प्रसाद शर्मा, सरस्वती मन्दिर, वाराणसी, 1960
8. हिन्दी निबन्ध के आलोक शिखर, जयनाथ 'नलिन' मनीषाप्रकाशन, दिल्ली, 1987
9. हिन्दी कहानी का इतिहास, लालचन्द गुप्त 'मंगल', संजीव प्रकाशन, कुरुक्षेत्र, 1988
10. हिन्दी निबन्ध साहित्य का सांस्कृतिक अध्ययन, बाबूराम, वाणी प्रकाशन, दिल्ली, 2002

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Mapping Matrix of Course MA/HIN/1/CC3
Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: shows the CO-PO mapping matrix for a course (MA/HIN/1/CC3) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/1/CC3

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	2	3	2	3	2	3	3
Average	3	2.5	3	2	3	2	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/1/CC3

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3: CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	2	3	2	3	2	3	3	3	3	3	2	3
Average	3	2.5	3	2	3	2	3	3	3	3	3	2.75	3

MA/HIN/1/CC4
स्वतंत्रतापूर्व आधुनिक हिंदी काव्य

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

स्वतंत्रतापूर्व हिन्दी कविता (आधुनिक कविता) से परिचित कराना प्रमुख उद्देश्य, इसके अतिरिक्त स्वतंत्रतापूर्व हिन्दी कविता के निरंतर बदलते स्वरूप का परिचय करवाना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. स्वतंत्रतापूर्व हिन्दी कविता, आधुनिक हिंदी कविता की पृष्ठभूमि की जानकारी प्राप्त।
2. स्वतंत्रतापूर्व हिन्दी कविता संवेदना, शिल्प, सामाजिक सरोकारों से परिचय होगा।
3. स्वतंत्रतापूर्व हिन्दी कविता के विभिन्न कवियों के काव्य वैशिष्ट्य का बोध हो सकेगा।
4. स्वतंत्रतापूर्व हिन्दी कविता का नवजागरण और राष्ट्रीय आंदोलन से संबंधों का बोध हो सकेगा।

खण्ड—एक

साकेत — मैथिलीशरण गुप्त

खण्ड—दो

कामायनी— जयशंकर प्रसाद

खण्ड—तीन

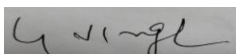
कुरुक्षेत्र— रामधारी सिंह दिनकर

खण्ड चार

तीनों पुस्तकों पर आधारित सप्रसंग व्याख्या

पुस्तक सूची

1. साकेत : एक अध्ययन, डॉ० नगेन्द्र
2. दिनकर : सृजन और चिंतन — डॉ० रेणु व्यास
3. कामायनी: एक पुनर्विचार — मुक्तिबोध
4. जयशंकर प्रसाद समग्र साहित्य— राजीव आनन्द
5. छायावाद युगीन काव्य: अविनाश भारद्वाज, तक्षशिला प्रकाशन, दिल्ली, 1984
6. प्रसाद और कामायनी, मूल्यांकन का प्रश्न, नगेन्द्र नेशनल पब्लिशिंग हाऊस, दिल्ली, 1990
7. कामायनी में काव्य, संस्कृति और दर्शन, द्वारिकाप्रसाद सक्सेना, विनोद पुस्तक मंदिर, आगरा, 1978
8. सुमित्रानंदन पंत, काव्य कला और जीवन दर्शन, शुचीरानी गुर्तू, आत्माराम एंड संस, दिल्ली, 1951
9. काव्य भाषा : रचनात्मक सरोकार, राजमणि शर्मा वाणी प्रकाशन, दिल्ली 2001
10. बीसवीं शताब्दी की हिन्दी कविता, मदन गुलाटी, अनुपम प्रकाशन, करनाल, 2000
11. मुक्तिबोध का साहित्य विवेक और उनकी कविता, लल्लनराय, मंथन पब्लिकेशन्स, रोहतक, 1982
12. नयी कविता का इतिहास, बैजनाथ सिंहल, संजय प्रकाशन, दिल्ली, 1977
13. कविता और संघर्ष चेतना, यश गुलाटी, इन्द्रप्रस्थ प्रकाशन, दिल्ली, 1986





Mapping Matrix of Course MA/HIN/1/CC4

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: shows the CO-PO mapping matrix for a course (MA/HIN/1/CC4) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/1/CC4

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/1/CC4

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3: CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PSO	PSO 1	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	3	3	2	3	2	3	3	3	3	3	2.75	3

MA/ HIN/1/DSC1

भारतेन्दु हरिश्चंद्र: एक विशेष अध्ययन

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न पुछे जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

भारतेन्दु हरिश्चंद्र के जीवन, साहित्य, दर्शन और उनके साहित्यिक अवदान से परिचय करवाना ।

पाठ्यक्रम के अपेक्षित परिणाम (Course learning Outcomes)

1. भारतेन्दु हरिश्चंद्र के जीवन, साहित्य और दर्शन का बोध होगा।
2. भारतेन्दु हरिश्चंद्र के हिंदी भाषा के निर्माण व साहित्यिक अवदान की समझ विकसित होगी।
3. भारतेन्दु हरिश्चंद्र के नाटक, पत्रकारिता, काव्य सरोकारों व मूल्यों का बोध होगा।
4. नवजागरण व राष्ट्रीय आंदोलन में हिंदी साहित्य के योगदान की समझ विकसित होगी।

खण्ड—एक

बन्दर सभा — भारतेन्दु हरिश्चन्द्र,

खण्ड—दो

अंधेर नगरी, भारत दुर्दशा—भारतेन्दु हरिश्चन्द्र

खण्ड—तीन

भारतेन्दु ग्रन्थावली (प्रथम खण्ड)—निबंध

खण्ड—चार

तीनों पुस्तकों पर आधारित सप्रसंग व्याख्या

पुस्तक सूची —

1. भारतेन्दु ग्रन्थावली
2. काव्य संग्रह बन्दर सभा — भारतेन्दु हरिश्चन्द्र
3. अंधेर नगरी (प्रहसन) — भारतेन्दु हरिश्चन्द्र
4. भारत दुर्दशा (नाटक) — भारतेन्दु हरिश्चन्द्र
5. भारतेन्दु — युग और राष्ट्रीय नवजागरण — मुरली मनोहर प्रसाद सिंह
6. भारतेन्दु का नाट्य साहित्य, डॉ. विरेन्द्र कुमार
7. भारतेन्दु का गद्य साहित्य : समाजशास्त्रीय अध्ययन, डॉ. कपिलदेव दुबे
8. भारतेन्दु के नाटकों का शास्त्रीय अध्ययन, डॉ. गोपीनाथ तिवारी
9. भारतेन्दु के निबन्ध, डॉ. केसरी नारायण शुक्ल
10. भारतेन्दु युग का नाट्य साहित्य और रंगमंच, डॉ. वासुदेव नन्दन प्रसार।
11. भारतेन्दु साहित्य, डॉ. रामगोपाल चौहान
12. भारतेन्दु हरिश्चन्द्र साहित्य और जीवन—दर्शन, डॉ. रमेश गुप्त

U Singh

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Mapping Matrix of Course MA/ HIN/1/DSC1
Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: shows the CO-PO mapping matrix for a course (MA/ HIN/1/DSC1) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/ HIN/1/DSC1

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/ HIN/1/DSC1

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	2
Average	3	3	3	2.75	2.75

Table 3: CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	2
Average	3	3	3	2	3	2	3	3	3	3	3	2.75	2.75

MA/ HIN/1/DSC2
जयशंकर प्रसाद: एक विशेष अध्ययन

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न पुछे जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

जयशंकर प्रसाद के जीवन, साहित्य, दर्शन और उनके साहित्यिक अवदान से परिचय करवाना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. जयशंकर प्रसाद के जीवन, साहित्य और दर्शन का बोध होगा।
2. छायावादी युग और आधुनिक हिंदी साहित्य की प्रौढ़ता में जयशंकर प्रसाद के साहित्य का महत्व बोध होगा।
3. जयशंकर प्रसाद के साहित्य सरोकारों व मूल्यों का बोध होगा।
4. नवजागरण व राष्ट्रीय आंदोलन में हिंदी साहित्य के योगदान की समझ विकसित होगी।

खण्ड—एक

आँसू (काव्य) — जयशंकर प्रसाद

खण्ड—दो

कामना, स्कन्दगुप्त(नाटक) — जयशंकर प्रसाद

खण्ड—तीन

आकाशदीप (कहानी संकलन)— जयशंकर प्रसाद

कंकाल (उपन्यास) — जयशंकर प्रसाद

खण्ड—चार

तीनों पुस्तकों पर आधारित सप्रसंग व्याख्या

पुस्तक सूची —

1. जयशंकर प्रसाद की प्रासंगिकता — प्रभाकर श्रोत्रिय
2. जयशंकर प्रसाद काव्य में बिम्ब योजना — रामकृष्ण अग्रवाल
3. प्रसाद का काव्य, प्रेमशंकर, भारती भण्डार, इलाहाबाद, 1961
4. कामायनी : एक सह-चिन्तन, वचनदेव, कुमार एवं दिनेश्वर प्रसाद, क्लासिक पब्लिशिंग कम्पनी, दिल्ली, 1983
5. कामायनी—अनुशीलन, रामलाल सिंह, इण्डियन प्रैस, लिमिटेड, प्रयाग, 1975
6. प्रसाद का साहित्य, प्रभाकर श्रोत्रिय, आत्माराम एंड सन्स, दिल्ली, 1975
7. जयशंकर प्रसाद, रमेशचन्द्र शाह, साहित्य अकादमी, दिल्ली, 1977
8. प्रसाद का नाट्य साहित्य, परम्परा और प्रयोग, हरिश्चन्द्र प्रकाशन प्रतिष्ठान, मेरठ: प्रथम संस्करण
9. लहर—सौन्दर्य, सत्यवीर सिंह, सन्मार्ग प्रकाशन, दिल्ली, 1977
10. प्रसाद का गद्य—साहित्य, राजमणि शर्मा, आत्माराम एण्ड सन्स, दिल्ली, 1982

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Mapping Matrix of Course MA/ HIN/1/DSC2

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: shows the CO-PO mapping matrix for a course (MA/ HIN/1/DSC2) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/ HIN/1/DSC2

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/ HIN/1/DSC2

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3: CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PSO	PSO	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	3	3	2	3	2	3	3	3	3	3	2.75	3

सूर्यकांत त्रिपाठी निराला: एक विशेष अध्ययन

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

सूर्यकांत त्रिपाठी निराला के जीवन, साहित्य, दर्शन और उनके साहित्यिक अवदान से परिचयकरवाना ।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. सूर्यकांत त्रिपाठी निराला के जीवन, साहित्य और दर्शन का बोध होगा ।
2. सूर्यकांत त्रिपाठी निराला के साहित्यिक अवदान की समझ विकसित होगी।
3. सूर्यकांत त्रिपाठी निराला के साहित्य सरोकारों व मूल्यों का बोध होगा।
4. नवजागरण व राष्ट्रीय आंदोलन में हिंदी साहित्य के योगदान की समझ विकसित होगी।

खण्ड—एक

राग विराग – निराला (काव्य)

खण्ड—दो

निराला की साहित्य साधना (भाग—एक, लेखक रामविलास शर्मा)

खण्ड—तीन

सुकुल की बीवी – कहानी संग्रह

खण्ड—चार

तीनों पुस्तकों पर आधारित व्याख्या

पुस्तक सूची –

1. निराला की साहित्य साधना (भाग एक)
2. सुकुल की बीवी (कहानी संग्रह) – निराला
3. राग विराग – निराला (काव्य)
4. निराला का गद्य, सूर्यप्रसाद दीक्षित, राधाकृष्ण प्रकाशन, दिल्ली
5. निराला का साहित्य और साधना, विश्वम्भरनाथ उपाध्याय, विनोद पुस्तक मन्दिर, आगरा
6. महाकवि निराला, काव्यकला, डॉ. विश्वम्भरनाथ उपाध्याय, सरस्वती पुस्तक सदन, आगरा
7. निराला का अलक्षित अर्थ—गौरव, शशिभूषण शीतांशु, सरस्वती प्रैस, इलाहाबाद
8. निराला का कथा साहित्य, कुसुम वार्ष्णेय, साहित्य भवन प्रा. लि. इलाहाबाद
9. निराला के काव्य में बिम्ब और प्रतीक, वेदव्रत शर्मा, आर्य बुक डिपो, दिल्ली
10. निराला और उनका तुलसीदास, रामकुमार शर्मा, पद्म बुक कम्पनी, जयपुर

Mapping Matrix of Course MA/ HIN/1/DSC3

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: shows the CO-PO mapping matrix for a course (MA/ HIN/1/DSC3) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/ HIN/1/DSC3

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	2.75	3	2	3	2	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/ HIN/1/DSC3

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	2.75	3	2.75	3

Table 3: CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	2	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	2.75	3	2	3	2	3	3	3	2.75	3	2.75	3

MA/ HIN/1/DSC4
गजानन माधव मुक्तिबोध: एक विशेष अध्ययन

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न पुछे जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

1. मुक्तिबोध के साहित्य का क्रमबद्ध अध्ययन करना

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. मुक्तिबोध के जीवन व रचना प्रक्रिया को जानना समझना।-
2. प्रगतिशील साहित्य के क्षेत्र में मुक्तिबोध का अवदान।
3. मुक्तिबोध के साहित्यिक व सामाजिक सरोकार।
4. नयी कविता आंदोलन और मुक्तिबोध का काव्य संसार।

खण्ड- 1

1. नयी कविता आन्दोलन और मुक्तिबोध
 2. मुक्तिबोध का काव्य: रचना प्रक्रिया में यथार्थ और फैंटेसी
 3. मुक्तिबोध का वैचारिक परिप्रेक्ष्य
 4. मुक्तिबोध का काव्य- शिल्प एवं भाषा
- प्रतिनिधि कविताएँ: अंधेरे में, ब्रह्मराक्षस, भूल गलती, चाँद कर मुँह टेढ़ा है, कहने दो जो कहते हैं।

खण्ड- 2

प्रतिनिधि कहानियाँ: मुक्तिबोध- सं. रोहिणी अग्रवाल - राजकमल प्रकाशन, नई दिल्ली
ब्रह्मराक्षस का शिष्य, काठ का सपना, क्लाड ईथरली, विपात्र, समझौता

खण्ड-3

निबंध- मध्ययुगीन भक्ति आन्दोलन के विविध पहलू, तीसरा क्षण, नयी कविता का आत्मसंघर्ष, कामायनी एक फैंटेसी, वस्तु और रूप।

खण्ड-4

तीनों खण्डों पर आधारित सप्रसंग व्याख्या

पुस्तक सूची:

1. कविता के नए प्रतिमान : नामवर सिंह - राजकमल प्रकाशन, नई दिल्ली
2. नयी कविता और अस्तित्ववाद : रामविलास शर्मा - राजकमल प्रकाशन, नई दिल्ली
3. वक्त की शिनाख्त और सृजन का राग : रोहिणी अग्रवाल - वाणी प्रकाशन दिल्ली
4. मुक्तिबोध ज्ञान और संवेदना : नंदकिशोर नवल - राजकमल प्रकाशन, नई दिल्ली
5. मुक्तिबोध की काव्य प्रक्रिया : अशोक चक्रधर - मैकमिलन प्रकाशन, दिल्ली ।
6. मुक्तिबोध: प्रतिबद्ध काव्यकला के प्रतीक : चंचल चौहान - लिपि प्रकाशन, दिल्ली
7. लम्बी कविताएँ: वैचारिक सरोकार : डॉ० बलदेव वंशी - वाणी प्रकाशन, दिल्ली
8. नयी कविता : देवराज - वाणी प्रकाशन, दिल्ली
9. मुक्तिबोध की आत्मकथा : विष्णुचंद्र शर्मा - मुक्तिबोध रचनावली (1 से 5 खण्ड) - राजकमल प्रकाशन, नई दिल्ली
10. मार्क्सवाद और प्रगतिशील साहित्य : रामविलास शर्मा - वाणी प्रकाशन, दिल्ली

G. Singh

f J

Mapping Matrix of Course MA/ HIN/1/DSC4

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: shows the CO-PO mapping matrix for a course (MA/ HIN/1/DSC4) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/ HIN/1/DSC4

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

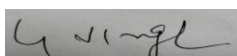
Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/ HIN/1/DSC4

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3: CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	3	3	2	3	2	3	3	3	3	3	2.75	3




MA/HIN/9/OEC1

सामान्य हिंदी

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे और परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। $15 \times 4 = 60$

पाठ्यक्रम के उद्देश्य (Course Objectives)

1. भाषा के सामान्य सिद्धांतों व हिंदी भाषा के व्यावहारिक प्रयोग का ज्ञान प्रदान करना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. भाषा के सामान्य सिद्धांतों व हिंदी भाषा के व्यावहारिक प्रयोग का ज्ञान होगा।
2. जीवनयापन के लिए भाषायी कौशल, कंप्यूटर, अनुवाद, पत्रकारिता, जनसंचार, रंगमंच, चलचित्र आदि के बारे में सैद्धांतिक व व्यावहारिक ज्ञान होगा।
3. हिंदी भाषा के विविध प्रयोग की क्षमता में वृद्धि होगी।
4. हिंदी भाषा के विविध रूप व प्रयोजनमूलकता से विद्यार्थी परिचित हो सकेंगे।

खंड-एक

हिंदी भाषा का उद्भव व विकास, स्वरूप, देवनागरी लिपि का मानक रूप, संवैधानिक स्थिति, शब्द भंडार, मोबाइल दौर में हिंदी.

खंड-दो

हिंदी भाषा का व्यावहारिक व्याकरण-मुहावरे-लोकोक्तियाँ, पर्यायवाची शब्द, समानार्थी शब्द, विलोम शब्द, वाक्यांश के लिए एक शब्द, शुद्ध-अशुद्ध शब्द, उपसर्ग-प्रत्यय, संधि-समास, शब्द शक्तियाँ.

खंड-तीन

अवबोध/अपठित पाठ्यांश, संक्षिप्त लेखन, पल्लवन, लघु निबंध, औपचारिक पत्र लेखन, कार्यालयी हिंदी और साहित्ययुक्त हिंदी, पारिभाषिक शब्दावली निर्माण.

खंड-चार

आधुनिक युग में हिंदी - कम्प्यूटर और हिंदी, हिंदी कंप्यूटिंग का महत्व, हिंदी टंकण-यूनि कोड व देवनागरी लिपि में यूनि कोड की विशेषताएँ, यूनि कोड के लाभ और इंटरनेट पर हिंदी, भूमंडलीकरण के दौर में हिंदी. हिंदी में चिट्ठाकारिता (ब्लॉगिंग), सोशल मिडिया और हिंदी, ई-गवर्नेंस और हिंदी.

अनुशंसित पुस्तकें-

1. हिंदी व्याकरण की सरल पद्धति- डॉ.बद्रीनाथ कपूर
2. सामान्य हिंदी- डॉ.राघव प्रकाश, पिकसिटी प्रकाशन, जयपुर.
3. हिंदी भाषा विकास और स्वरूप-कैलाश चन्द्र भाटिया, मोतीलाल चतुर्वेदी, प्रभात प्रकाशन, नई दिल्ली.
4. मुहावरे कहावतें एवं सामान्य हिंदी ज्ञान फ़तेह सिंह लोढ़ा, यतीन्द्र साहित्य सदन, दिल्ली.
5. सामान्य हिंदी-डॉ. हरदेव बाहरी, जैन प्रकाशन मंदिर, जयपुर.
6. चयनित हिंदी निबंध, डॉ.राघव प्रकाश, पिकसिटी प्रकाशन, जयपुर.
7. हिंदी ब्लॉगिंग: अभिव्यक्ति की नई क्रांति, अविनाश वाचस्पति, रविन्द्र प्रभात, साहित्य निकेतन बिजनौर(उ.प्र.)
8. हिंदी कंप्यूटरी (ऑनलाइन ई-बुक, लेखक- वेद प्रकाश)

Mapping Matrix of Course MA/HIN/9/OEC1

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/9/OEC1) assuming that there are 8 POs and 4 COs.

Table 1: CO-PO Matrix for the Course MA/HIN/9/OEC1

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	2	3	3	3
LO2	3	3	3	2	2	3	3	3
LO3	3	3	3	2	2	3	3	3
LO4	3	3	3	2	2	3	3	3
Average	3	3	3	2	2	3	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/9/OEC1

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3 CO-PO-PSO Mapping Matrix MA/HIN/9/OEC1

CO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	2	3	3	3	3	3	3	3	3
LO2	3	3	3	2	2	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	3	3	3	3	3	3	3
LO4	3	3	3	2	2	3	3	3	3	3	3	3	3
Average	3	3	3	2	2	3	3	3	3	3	3	3	3

MA/HIN/9/OEC2

हिन्दी भाषा और व्याकरण

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे और परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

- विद्यार्थियों को हिन्दी भाषा और व्याकरण संबंधी जानकारी देना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. हिन्दी भाषा के बारे में विद्यार्थियों को सामान्य जानकारी देना।
2. हिन्दी व्याकरण का ज्ञान उपलब्ध कराना।
3. हिन्दी वर्णमाला का परिचय देना।
4. देवनागरी लिपि के मानकीकरण संबंधी जानकारी देना।

खंड -1

हिंदी की मानक ध्वनियाँ, हिंदी वर्णमाला का परिचय, स्वरों का वर्गीकरण, व्यंजनों का वर्गीकरण

खंड -2

हिन्दी की व्याकरणिक कोटियाँ- संज्ञा, सर्वनाम, क्रिया, विशेषण, कारक, वाच्य

खंड -3

हिंदी में शब्द-संरचना : उपसर्ग, प्रत्यय, संधि एवं समास

खंड -3

देवनागरी लिपि उद्भव एवं विकास देवनागरी लिपि की सीमाएं, देवनागरी लिपि का मानकीकरण, देवनागरी लिपि की विशेषताएँ

संदर्भ सूची

1. सामान्य भाषा विज्ञान बाबू राम सकसेना ,
2. भाषा विज्ञान की भूमिका देवेन्द्र नाथ शर्मा
3. समसामयिक भाषाविज्ञान,
4. हिन्दी भाषा का इतिहास धीरेन्द्र वर्मा ,
5. हिन्दी शब्दानुशासन किशोरी दास वाजपेय ,
6. हिन्दी भाषा उद्भव और विकास, उदयनारायण तिवारी, भारती भंडार, इलाहाबाद ।
7. हिन्दी भाषा उद्भव और विकास: हरदेव बाहरी किताब महल, इलाहाबाद ।
8. देवनागरी लेखन तथा हिन्दी वर्तनी आगरा , केन्द्रीय हिन्दी संस्थान , लक्ष्मीनारायण शर्मा ,
9. देवनागरी, देवीशंकर द्विवेदी, प्रशांत प्रकाशन, कुरुक्षेत्र ।

Mapping Matrix of Course MA/HIN/9/OEC2

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/9/OEC2) assuming that there are 8 POs and 4 COs.

Table 1: CO-PO Matrix for the Course MA/HIN/9/OEC2

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	2	3	3	3
LO2	3	3	3	2	2	3	3	3
LO3	3	3	3	2	2	3	3	3
LO4	3	3	3	2	2	3	3	3
Average	3	3	3	2	2	3	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/9/OEC2

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3 CO-PO-PSO Mapping Matrix MA/HIN/9/OEC2

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	2	3	3	3	3	3	3	3	3
LO2	3	3	3	2	2	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	3	3	3	3	3	3	3
LO4	3	3	3	2	2	3	3	3	3	3	3	3	3
Average	3	3	3	2	2	3	3	3	3	3	3	3	3

द्वितीय सेमेस्टर

MA/HIN/2/CC5

भाषा विज्ञान एवं हिंदी भाषा (द्वितीय)

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

- सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
- निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे और परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

भाषा व भाषा विज्ञान के सिद्धांतों, हिंदी भाषा के विकास, विविध रूप व प्रयोजनमूलकता से परिचित करवाना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

- भाषाविज्ञान के विभिन्न अवयवों की जानकारी मिलेगी।
- भाषायी अध्ययन और साहित्य के भाषायी अध्ययन में मदद मिलेगी।
- हिंदी भाषा के विकास व उसकी बोलियों का ज्ञान होगा
- हिंदी भाषा के विविध रूप व प्रयोजनमूलकता से परिचित होंगे।

खण्ड—एक

प्राचीन भारतीय भाषाविज्ञान का इतिहास : पाणिनि पूर्व, पाणिनि कालीन एवं पाणिनि परवर्ती, शिक्षा, प्रातिशाख्य, यास्क, कात्यायन, निरुक्त, पतंजलि, भर्तृहरि, आधुनिक भाषाविज्ञान का इतिहास।

खण्ड—दो

मानक हिंदी की ध्वनियाँ, मानक हिंदी और खड़ीबोली में अंतर, हिंदी की संवैधानिक व्यवस्था, हिंदी राजभाषा के रूप में, राष्ट्रीय आंदोलन के संदर्भ में हिंदी का योगदान।

खण्ड—तीन

हिंदी की व्याकरणिक संरचना : संज्ञा, सर्वनाम, क्रिया, विशेषण, क्रियाविशेषण, लिंग, वचन, कारक, अव्यय, निपात।
हिंदी में शब्द-संरचना : उपसर्ग, प्रत्यय, संधि एवं समास।

खण्ड—चार

हिन्दी प्रचार प्रसार आन्दोलन में विभिन्न व्यक्तियों और संस्थाओं का योगदान, हिन्दीतर भारतीय भाषाओं का सामान्य परिचय – मराठी, गुजराती, बंगला, उड़िया, पंजाबी, तमिल, तेलगू, कन्नड़, असमी व मलयालम।

पुस्तक सूची –

- सामान्य भाषाविज्ञान—बाबूराम सक्सेना
- भाषाविज्ञान की भूमिका—देवेन्द्रनाथ शर्मा
- समसामयिक भाषाविज्ञान—वैशना नांरग
- हिन्दी शब्दानुशासन—किशोरीदास वाजपेयी
- आधुनिक हिंदी व्याकरण और रचना—वासुदेव नंदन प्रसाद
- हिन्दी भाषा का इतिहास—धीरेन्द्र वर्मा

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Mapping Matrix of Course MA/HIN/2/CC5

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/2/CC5) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/2/CC5

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3
LO4	3	2	3	2	3	3	3	3
Average	3	2.25	3	2.25	3	2.25	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/2/CC5

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	2
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	2.75

Table:3CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	2
LO3	3	2	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	3	3	3	3	3	3	3	3	3
Average	3	2.25	3	2.25	3	2.25	3	3	3	3	2.25	3	2.75

MA/HIN/2/CC6
भक्ति एवं रीतिकालीन काव्य

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। 2x5=10
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। 15x4=60

पाठ्यक्रम का उद्देश्य (Course Objectives)

मध्यकालीन हिंदी कविता से परिचय मुख्य उद्देश्य, इसके अतिरिक्त, रीतिकाल के अध्ययन के माध्यम से शृंगारिकता के विविध पक्षों के अध्ययन द्वारा रीतिकाल की सम्पूर्ण जानकारी प्राप्त करना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. मध्यकालीन हिंदी कविता से परिचय करवाना।
2. मध्यकालीन हिंदी कविता की आलोचनात्मक समझ का विकास करना।
3. मध्यकाल के अन्तर्गत परिगणित भक्तिकाल साहित्य के 'स्वर्णयुग' से सम्पूर्ण परिचय प्रदान करना।
4. भक्तिकाव्य के महान् नायकों के काव्य अध्ययन के माध्यम से अनुभूति, अभिव्यक्ति और वैचारिकता के उत्कर्ष को आत्मसात् करना एवं जानना।

खण्ड-एक

कबीर : कबीर वाणी (आरंभिक चालीस साखी एवं आरंभिक दस पद), संपादक पारसनाथ तिवारी, राका प्रकाशन, इलाहाबाद।

जायसी : पद्मावत, वासुदेवशरण अग्रवाल (संपादक), मानसरोवर खण्ड, नागमती वियोग खंड, गोरा-बादल खण्ड।

खण्ड-दो

सूरदास : भ्रमरगीत सार (आरंभिक 30 पद), सम्पादक आचार्य रामचन्द्र शुक्ल, लोकभारती प्रकाशन, इलाहाबाद।

तुलसीदास : कवितावली (केवल उत्तरकाण्ड)।

खण्ड-तीन

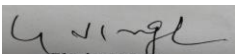
रीतिकाव्य संग्रह, संपादक विजयपाल सिंह, प्रकाशन लोकभारती, इलाहाबाद देव के आरंभिक पाँच पद, भूषण के आरंभिक पाँच पद, घनानंद के आरंभिक पाँच पद एवं बिहारी के आरंभिक बीस दोहे।

खण्ड चार

तीनों खण्डों पर आधारित सप्रसंग व्याख्या

पुस्तक सूची

1. हिंदी साहित्य का इतिहास – आ० रामचन्द्र शुक्ल
2. त्रिवेणी– आ० रामचन्द्र शुक्ल
3. हिंदी साहित्य की भूमिका – आ० हजारी प्रसाद द्विवेदी
4. कबीर– आ० हजारी प्रसाद द्विवेदी
5. रीतिकाव्य की भूमिका– नगेन्द्र
6. देव और उनकी कविता– नगेन्द्र
7. बिहारी– विश्वनाथ प्रसाद मिश्र
8. घनानन्द कवित्त– विश्वनाथ प्रसाद मिश्र



Mapping Matrix of Course MA/HIN/2/CC6

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/2/CC6) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/2/CC6

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2 shows the CO-PSO mapping matrix for a course (MA/HIN/2/CC6) assuming that there are 5 PSOs and 4COs.

Table 2: CO-PSO Matrix for the Course MA/HIN/2/CC6

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3: CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	3	3	2	3	2	3	3	3	3	3	2.75	3

MA/HIN/2/CC7

हिंदी कथेतर साहित्य

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न पुछे जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

हिंदी आत्मकथा, निबंध, जीवनी, संस्मरण व रेखाचित्र व कथेतर साहित्य जानकारी प्रदान करना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. हिंदी आत्मकथा का विकास व आलोचनात्मक समझ।
2. हिंदी जीवनी का विकास व आलोचनात्मक समझ।
3. हिंदी निबन्ध की समझ विकसित होगी।
4. हिंदी रेखाचित्र का विकास व आलोचनात्मक समझ।

खण्ड-एक

आचार्य रामचन्द्र शुक्ल : चिंतामणि (भाग-एक) से दो निबंध:- श्रद्धा एवं भक्ति, कविता क्या है।

आचार्य हजारी प्रसाद द्विवेदी : अशोक के फूल संकल्प से दो निबंध:- अशोक के फूल, मनुष्य ही साहित्य का लक्ष्य है।

खण्ड-दो

बालमुकुंद गुप्त : शिवशंभू का चिट्ठा

खण्ड-तीन

हरिवंशराय बच्चन: क्या भूलूँ क्या याद करूँ

खण्ड-चतुर्थ

तीनों खण्डों पर आधारित सप्रसंग व्याख्या

पुस्तक सूची -

1. हिंदी जीवनी साहित्य सिद्धान्त और अध्ययन- भगवान दास भारद्वाज
2. आचार्य रामचन्द्र शुक्ल- कृष्णदत्त पालीवाल एवं जय सिंह 'नीरज'
3. आचार्य रामचन्द्र शुक्ल और हिंदी आलोचना- रामविलास शर्मा
4. आलोचक रामचन्द्र शुक्ल- गुलाब राय
5. निबंध: सिद्धान्त और प्रयोग- हरिहरनाथ द्विवेदी।

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Mapping Matrix of Course MA/HIN/2/CC7

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: shows the CO-PO mapping matrix for a course (MA/HIN/2/CC7) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/2/CC7

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	2	3	2	3	2	3	3
Average	3	2.5	3	2	3	2	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/2/CC7

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3: CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	2	3	2	3	2	3	3	3	3	3	2	3
Average	3	2.5	3	2	3	2	3	3	3	3	3	2.75	3

MA/HIN/2/DSC5
कबीरदास : एक विशेष अध्ययन

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

कबीरदास जी के जीवन, साहित्य और दर्शन का परिचय करवाना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. कबीर के जीवन, साहित्य और दर्शन का परिचय।
2. कबीर के साहित्यिक अवदान की समझ।
3. कबीर के साहित्य सरोकारों व मूल्यों का बोध।
4. कबीर चिंतन की भारतीय लोकजीवन में उपस्थिति का बोध।

खण्ड-एक

कबीर ग्रंथावली, संपादक श्याम सुंदरदास, प्रकाशक नागरी प्रचारिणी सभा, काशी (वाराणसी) से सम्पूर्ण दोहे।

खण्ड-दो

कबीर ग्रंथावली, संपादक श्याम सुंदरदास, प्रकाशक नागरी प्रचारिणी सभा, काशी (वाराणसी) से आरंभिक दस रमैणी।

खण्ड-तीन

कबीर ग्रंथावली, संपादक श्याम सुंदरदास, प्रकाशक नागरी प्रचारिणी सभा, काशी (वाराणसी) से आरंभिक तीस पद।

खण्ड-चार

तीनों खण्डों पर आधारित सप्रसंग व्याख्या

पुस्तक सूची

1. हिंदी काव्य में निर्गुण धारा – पीताम्बरदत्त बडथवाल, अवध पब्लिशिंग हाउस, लखनऊ ।
2. कबीर – आचार्य हजारी प्रसाद द्विवेदी, राजकमल प्रकाशन, दिल्ली ।
3. कबीर की कविता – योगेन्द्र प्रताप सिंह
4. कबीर मीमांसा – डॉ. रामचंद्र तिवारी, लोकभारती प्रकाशन, इलाहाबाद ।
5. उत्तर भारत की संत परम्परा – परशुराम चतुर्वेदी, भारती भण्डार, इलाहाबाद ।
6. कबीर के काव्य रूप – नजीर मुहम्मद
7. कबीर साहित्य की परख – परशुराम चतुर्वेदी, भारती भण्डार, इलाहाबाद ।
8. संत कबीर – सं. रामकुमार वर्मा
9. कबीर की विचारधारा – गोविन्द त्रिगुणायत, साहित्य निकेतन, कानपुर ।
10. हिंदी की निर्गुण काव्य धारा और कबीर – जयदेव सिंह
11. कबीर : एक नई दृष्टि – रघुवंश

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Mapping Matrix of Course MA/HIN/2/DSC5
Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)
Table 1: CO-PO Matrix for the Course MA/HIN/2/DSC5

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	2	2	2	2	3	3
LO2	3	3	3	2	2	3	3	3
LO3	3	3	3	2	2	3	3	3
LO4	3	3	3	2	2	2	3	3
Average	3	3	2.75	2	2	2.5	3	3

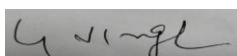
Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/2/DSC5

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	2.75	3	3	3

Table 3 CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	2	2	2	3	3	3	2	3	3	3
LO2	3	3	3	2	2	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	3	3	3	3	3	3	3
LO4	3	3	3	2	2	2	3	3	3	3	3	3	3
Average	3	3	2.75	2	2	2.5	3	3	3	2.75	3	3	3




MA/HIN/2/DSC6

सूरदास : एक विशेष अध्ययन

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न पुछे जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

सूरदास के जीवन, साहित्य, दर्शन और उनके साहित्यिक अवदान से परिचय करवाना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. सूरदास के जीवन, साहित्य और दर्शन का परिचय होगा।
2. सूरदास के साहित्यिक अवदान की समझ विकसित होगी।
3. सूरदास के साहित्य सरोकारों व मूल्यों का बोध होगा।
4. सूरदास के चिंतन की भारतीय लोकजीवन में उपस्थिति का बोध कर सकेंगे।

खण्ड—एक

सूरसागर सार, संपादक धीरेन्द्र वर्मा से विनय एवं भक्ति के पद।

खण्ड—दो

सूरसागर सार, संपादक धीरेन्द्र वर्मा से गोकुल एवं वृन्दावन लीला के पद।

खण्ड—तीन

सूरसागर सार, संपादक धीरेन्द्र वर्मा से भ्रमरगीत के पद।

खण्ड—चार

तीनों खण्डों पर आधारित सप्रसंग व्याख्या

पुस्तक सूची —

1. सूरदास — सं. हरबंसलाल शर्मा
2. सूर और उनका साहित्य — डॉ. हरबंसलाल शर्मा
3. सूर की साहित्य साधना — डॉ. भगवतस्वरूप मिश्र एवं विश्वम्भर
4. भक्ति आन्दोलन और सूरदास का काव्य — मैनेजर पाण्डेय
5. मध्ययुगीन काव्य साधना — डॉ. रामचन्द्र तिवारी
6. अष्टछाप और वल्लभ सम्प्रदाय — भाषा 1 तथा 2 — डॉ. दीनदयाल गुप्त
7. भारतीय साधना और सूर साहित्य — डॉ. मुंशी राम राय
8. सूरदास — आचार्य नन्द दुलारे वाजपेयी
9. सूरदास — आचार्य रामचन्द्र शुक्ल
10. सूर साहित्य — हजारीप्रसाद द्विवेदी
11. सूरदास — डॉ. ब्रजेश्वर वर्मा
12. सूर की काव्यमाला — मनमोहन गौतम

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Mapping Matrix of Course MA/HIN/2/DSC6

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: CO-PO Matrix for the Course MA/HIN/2/DSC6

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	2	2	2	2	3	3
LO2	3	3	3	2	2	3	3	3
LO3	3	3	3	2	2	3	3	3
LO4	3	3	3	2	2	2	3	3
Average	3	3	2.75	2	2	2.5	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/2/DSC6

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	2.75	3	3	3

Table 3 CO-PO-PSO Mapping Matrix MA/HIN/2/DSC6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	2	2	2	3	3	3	2	3	3	3
LO2	3	3	3	2	2	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	3	3	3	3	3	3	3
LO4	3	3	3	2	2	2	3	3	3	3	3	3	3
Average	3	3	2.75	2	2	2.5	3	3	3	2.75	3	3	3

MA/HIN/2/DSC7
जायसी: एक विशेष अध्ययन

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

1. जायसी के साहित्य का अध्ययन व भक्तिकालीन साहित्य के सन्दर्भ में जायसी का मूल्यांकन करना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. जायसी कबीर के जीवन, साहित्य और दर्शन का परिचय।
2. जायसी के साहित्यिक अवदान की समझ।
3. जायसी के साहित्य सरोकारों व मूल्यों का बोध।
4. जायसी चिंतन की भारतीय लोकजीवन में उपस्थिति का बोध।

खण्ड-1

जायसी और उनका युग
जायसी की काव्य कला
पद्मावत – सिंहलद्वीप- खण्ड (सं. वासुदेव शरण अग्रवाल)

खण्ड-2

पद्मावत – मानसरोदक- खण्ड (सं. वासुदेव शरण अग्रवाल)
रहस्यवाद और जायसी
जायसी काव्य में रूपक तत्व

खण्ड-3

पद्मावत – नागमती वियोग- खण्ड (सं. वासुदेव शरण अग्रवाल)
जायसी काव्य में लोकतत्व/लोक संस्कृति
सूफी सम्प्रदाय और जायसी

खण्ड- 4

तीनों खण्डों पर आधारित व्याख्या

पुस्तक सूची

1. हिन्दी साहित्य का इतिहास: आ.रामचंद्र शुक्ल, नागरी प्रचारिणी सभा, वाराणसी।
2. त्रिवेणी, आ. रामचन्द्र शुक्ल, नागरी प्रचारिणी सभा, वाराणसी।
3. हिन्दी साहित्य की भूमिका: आ. हजारी प्रसाद द्विवेदी, राजकमल प्रकाशन, नई दिल्ली।
4. जायसी ग्रन्थावली: सं. आ. रामचन्द्र शुक्ल।
5. जायसी: विजयदेव नारायण साही।
6. जायसी: एक नई दृष्टि: डॉ. रघुवंश।

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Mapping Matrix of Course MA/HIN/2/DSC7
Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: CO-PO Matrix for the Course MA/HIN/2/DSC7

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	2	2	2	2	3	3
LO2	3	3	3	2	2	3	3	3
LO3	3	3	3	2	2	3	3	3
LO4	3	3	3	2	2	2	3	3
Average	3	3	2.75	2	2	2.5	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/2/DSC7

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	2.75	3	3	3

Table 3 CO-PO-PSO Mapping Matrix MA/HIN/2/DSC7

CO	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	2	2	2	3	3	3	2	3	3	3
LO2	3	3	3	2	2	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	3	3	3	3	3	3	3
LO4	3	3	3	2	2	2	3	3	3	3	3	3	3
Average	3	3	2.75	2	2	2.5	3	3	3	2.75	3	3	3

MA/HIN/2/DSC8
तुलसीदास : एक विशेष अध्ययन

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

तुलसीदास के जीवन, साहित्य, दर्शन और उनके साहित्यिक अवदान से परिचय करवाना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. तुलसीदास के जीवन, साहित्य और दर्शन का परिचय।
2. तुलसीदास के साहित्यिक अवदान की समझ।
3. तुलसीदास के साहित्य सरोकारों व मूल्यों का बोध।
4. तुलसीदास के चिंतन की भारतीय लोकजीवन में उपस्थिति का बोध होगा।

खण्ड—एक

रामचरितमानस का सुन्दरकाण्ड, प्रकाशक गीता प्रेस, गोरखपुर

खण्ड—दो

विनय पत्रिका के निम्नलिखित पद—1,30,31,32,36,45,76,79,84,87,88,89,90,91,92,94,101,105,111,112

खण्ड—तीन

कवितावली के विभिन्न काण्डों से निम्नलिखित पद:

बालकाण्ड : 1, 2, 4 और 17

अयोध्याकाण्ड : 1, 2, 6, 7, 8, 11, 12, 19, 20, 21 और 22

सुन्दरकाण्ड : 30 और 32

उत्तरकाण्ड : 29,30,31,35,36,47,50,55,56,57,62,72,85,97 और 108

खण्ड—चार

तीनों खण्डों पर आधारित सप्रसंग व्याख्या।

पुस्तक सूची —

1. तुलसी दर्शन मीमांसा — डॉ. उदयभानु सिंह
2. तुलसी काव्य मीमांसा — डॉ. उदयभानु सिंह
3. तुलसी के भक्त्यात्मक गीत — वचनदेव कुमार
4. तुलसीदास की भाषा — देवकीनन्दन श्रीवास्तव
5. तुलसी—रसायन — भागीरथ मिश्र
6. भक्ति का विकास — मुंशी राम शर्मा
7. रामकथा :उत्पत्ति और विकास — कामिल बुल्के
8. तुलसी दर्शन — बलदेव प्रसाद मिश्र
9. गोस्वामी तुलसीदास — रामचन्द्र शुक्ल
10. तुलसीदास और उनका युग — राजपति दीक्षित
11. तुलसी की कारयित्री प्रतिभा का अध्ययन — डॉ. श्रीधर सिंह
12. तुलसी साहित्य के सांस्कृतिक आयाम — डॉ. हरिश्चन्द्र वर्मा
13. मध्यकालीन बोध का स्वरूप — हजारी प्रसाद द्विवेदी
14. भक्ति आन्दोलन और भक्ति काव्य — शिव कुमार मिश्र
15. भक्ति काव्य और समाज दर्शन — प्रेम शंकर

G. Singh

f f

Mapping Matrix of Course MA/HIN/2/DSC8

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/2/DSC8) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/2/DSC8

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	2.75	3	2	3	2	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/2/DSC8

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	2.75	3	2.75	3

Table 3 CO-PO-PSO Mapping MatrixMA/HIN/2/DSC8

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	2	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	2.75	3	2	3	2	3	3	3	2.75	3	2.75	3

हिंदी सम्भाषण एवं सम्प्रेषण कौशल

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न पुछे जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे और परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य

सम्भाषण एवं सम्प्रेषण के व्यावहारिक पहलुओं से परिचित करवाना।

पाठ्यक्रम के अपेक्षित परिणाम

1. सावर्जनिक मंचों पर अभिव्यक्ति की क्षमता विकसित होगी।
2. वैयक्तिक, सामाजिक व व्यावसायिक व्यवहार में संवाद क्षमता विकसित होगी।
3. हिंदी भाषा में अपेक्षित संप्रेषण कर पाएगा।
4. संप्रेषण की विधियों को सीखकर हिंदी भाषा में मौखिक व लिखित रूप में अपेक्षित व प्रभावी संप्रेषण करने में सक्षम होगा।

खण्ड-एक

संभाषण का अर्थ, स्वरूप एवं प्रमुख घटक

संभाषण के विभिन्न रूप-वार्तालाप, व्याख्यान, वाद-विवाद, एकालाप, अवाचिक अभिव्यक्ति, जन संबोधन।

जन सम्पर्क में वाककला की उपयोगिता

संभाषण कला के प्रमुख उपादान: भाषा ज्ञान, मानक उच्चारण, सटीक प्रस्तुति, अन्तराल ध्वनि (वाल्जूम), वेग, लहजा (एक्सेण्ट)।

खण्ड-दो

संभाषण कला के विभिन्न रूप: उदघोषणा कला (अनाउन्सेमेंट), आंखों देखा हाल (कमेन्ट्री), संचालन (एकरिंग), वाचन कला, समाचार वाचन (रेडियो, टी. वी.), मंचीय वाचन (कविता, कहानी, व्यंग्य आदि)।

वाद-विवाद प्रतियोगिता एवं समूह संवाद।

खण्ड-तीन

लोक प्रशासन, जनसम्पर्क एवं विपणन के विकास में संभाषण कला का योगदान।

संवादी भाषा (कनवर्सेशनल लैंग्वेज) के रूप में हिन्दी की भाषिक संवेदना की विवेचना।

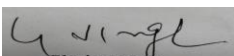
खण्ड-चार

भाषा का स्वरूप एवं विशेषताएं, भाषा और मानव समाज का सांस्कृतिक विकास, हिंदी भाषा का विकास, हिंदी भाषा के विविध रूप (राष्ट्रभाषा, राजभाषा, संपर्क भाषा)।

संप्रेषण के विविध रूप (साक्षात्कार, भाषण, संवाद, सामूहिक चर्चा)

सहायक पुस्तकें

1. भाषण कला - महेश शर्मा
2. व्यावहारिक राजभाषा कोश - दिनेश चमोला
3. प्रयोजनमूलक हिंदी - रघुनंदन प्रसाद शर्मा
4. रचनात्मक लेखन - रमेश गौतम
5. टेलीविजन लेखन - असगर वजाहत और प्रभात रंजन
6. संचार भाषा हिंदी - सूर्यप्रसाद दीक्षित
7. ब्रेक के बाद - सुधीश पचौरी




8. जनसंचार माध्यम -भाषा और साहित्य - सुधीश पचौरी
9. अच्छी हिंदी - रामचंद्र वर्मा
10. हिंदी व्याकरण - कामता प्रसाद गुरु
11. व्यावहारिक राजभाषा कोश - दिनेश चमोला
12. रचनात्मक लेखन - रमेश गौतम
13. जनसंचार माध्यम -भाषा और साहित्य - सुधीश पचौरी
14. कथा-पटकथा - मन्नु भंडारी
15. पटकथा लेखन - मनोहर श्याम जोशी

Mapping Matrix of Course MA/HIN/2/SEC1

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/2/SEC1) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/2/SEC1

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3
LO4	3	2	3	2	3	3	3	3
Average	3	2.25	3	2.25	3	2.25	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/2/SEC-II/206

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	2
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	2.75

Table:3 CO-PO-PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	2
LO3	3	2	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	3	3	3	3	3	3	3	3	3
Average	3	2.25	3	2.25	3	2.25	3	3	3	3	2.25	3	2.75

MA/HIN/9/OEC3
प्रयोजनमूलक हिंदी

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न पुछे जाएंगे। प्रत्येक प्रश्न 2 अंक का है। 2x5=10
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे और परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। 15x4=60

पाठ्यक्रम का उद्देश्य (Course Objectives)

हिंदी भाषा के विकास, विविध रूप व प्रयोजनमूलकता से परिचित करवाना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. कार्यालयी हिन्दी के सैद्धांतिक स्वरूप का ज्ञान प्रदान करना।
2. अनुवाद विज्ञान की सैद्धांतिक जानकारी और महत्त्व प्रदान करना ।
3. राजभाषा हिन्दी में अनुवाद का व्यवहारिक ज्ञान प्रदान करना।
4. कंप्यूटर प्रयोग की सैद्धांतिक-व्यावहारिक जानकारी में अनुवाद का स्थान व महत्त्व का ज्ञान प्रदान करना ।

खण्ड-एक

प्रयोजनमूलक हिन्दी – अर्थ, अवधारणा व स्वरूप
प्रयोजनमूलक हिन्दी व उसके विविध रूप
राजभाषा संबंधी संवैधानिक प्रावधान – अनु. 343 से 351 तक

खण्ड-दो

दृश्य श्रव्य माध्यमों का परिचय, पत्र लेखन – स्वरूप, प्रकार व प्रारूप, आवेदन पत्र, नियुक्ति पत्र, मांग पत्र,
सरकारी पत्राचार – स्वरूप, प्रकार, प्रारूप, परिचय, ज्ञापन, कार्यालय ।

खण्ड-तीन

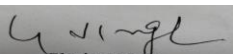
पत्रकारिता स्वरूप भेद, सम्पादक के गुण, प्रेस सम्बन्धी कानून ।
वाणिज्य व व्यवसायिक पत्र लेखन, कार्यालयी हिन्दी
वाणिज्यिक पत्र, व्यवहार में अन्तर, प्रस्तावों के पत्र प्रस्तुत करना ।

खण्ड-चार

विज्ञापन और अनुवाद की प्रक्रिया का परिचय– क्षेत्र, विस्तार और महत्त्व, भाषा और उपयुक्त विशेषण, अभिव्यक्ति की प्रभावशीलता, एक अच्छे प्रतिलेखक के गुण ।

पुस्तक सूची –

1. प्रशासनिक हिन्दी– महेशचन्द्र गुप्त, वाणी प्रकाशन, दिल्ली ।
2. प्रयोजनमूलक हिन्दी– दंगल शाल्टे, वाणी प्रकाशन, दिल्ली ।
3. प्रयोजनमूलक हिन्दी– डॉ. नरेश मिश्र, निर्मल प्रकाशन, दिल्ली ।
4. प्रयोजनमूलक हिन्दी– डॉ. नरेश मिश्र, अभिनव प्रकाशन, दिल्ली ।
5. आधुनिक विज्ञापन– प्रेमचंद पंतजलि, वाणी प्रकाशन, दिल्ली ।
6. राजभाषा हिन्दी– कैलाशचन्द्र भाटिया, वाणी प्रकाशन, दिल्ली ।
7. प्रयोजनमूलक हिन्दी और काव्यांग– डॉ. नरेश मिश्र, अभिनव प्रकाशन, दिल्ली ।





Mapping Matrix of Course MA/HIN/9/OEC3

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/9/OEC3) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/9/OEC3

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/9/OEC3

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3 CO-PO-PSO Mapping Matrix MA/HIN/9/OEC3

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	3	3	2	3	2	3	3	3	3	3	2.75	3

अध्यापन अवधि : 4 घंटे

समय : 3 घंटे

कुल अंक : 100

लिखित परीक्षा : 70 अंक

आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे और परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

1. हिंदी के स्वरूप, विकास तथा मीडिया के विविध पहलुओं से परिचय।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. हिंदी भाषा में संचार कौशलों के विकास की समझ होगी।
2. जनसंचार के सिद्धांतों व व्यवहारिक पहलुओं की समझ विकसित होगी।
3. जनसंचार के प्रिंट माध्यमों के लिए लेखन की क्षमता में अभिवृद्धि होगी।
4. जनसंचार के इलेक्ट्रॉनिक व इंटरनेट के लिए लेखन की क्षमता में अभिवृद्धि होगी।

खण्ड-एक

संचार की अवधारणा : अर्थ, परिभाषा, स्वरूप एवं महत्व - संचार के प्रकार एवं सम्प्रेषण के माध्यम, भाषा सम्प्रेषण के चरण, साक्षात्कार, भाषण कला एवं लेखन, पत्र लेखन।

खण्ड-दो

हिन्दी भाषा एवं उसकी बोलियाँ - हिन्दी भाषा का विकास, हिन्दी की बोलियाँ, देवनागरी लिपि की विशेषताएँ, हिन्दी व्याकरण (मुहावरे, लोकोक्तियाँ, समानार्थक, व विपरीतार्थक शब्द)

खण्ड-तीन

व्यवहारिक हिन्दी - हिन्दी की सांविधानिक स्थिति, राजभाषा अधिनियम, राष्ट्रपति अध्यादेश पत्र लेखन (सरकारी व अर्धसरकारी)।

खण्ड-चार

अनुवाद एवं सृजनात्मक लेखन - अनुवाद : परिभाषा एवं स्वरूप, अनुवाद : प्रकृति एवं प्रक्रिया, अनुवाद : वर्गीकरण, व्यावहारिक अनुवाद (अंग्रेजी/हिन्दी), सृजनात्मक लेखन - कविता, कहानी, नाटक, निबन्ध।

पुस्तक सूची :

1. हिन्दी भाषा: उद्गम और विकास, उदयनारायण तिवारी, भारती भंडार, इलाहाबाद, 1961।
2. हिन्दी: उदभव और विकास, हरदेव बाहरी, किताब महल, इलाहाबाद, 1965।
3. भाषा शिक्षण, रविन्द्रनाथ श्रीवास्तव, सहकारी प्रकाशन, दिल्ली, 1981।
4. भाषा और भाषाविज्ञान, नरेश मिश्र, निर्मल पब्लिकेशन्स, दिल्ली, 2001।
5. अनुवाद विज्ञान, राजमणि शर्मा, वाणी प्रकाशन, दिल्ली, 2002।
6. अनुवाद विज्ञान और सम्प्रेषण, हरिमोहन, तक्षशिला प्रकाशन, दिल्ली, 1984।
7. अनुवाद विज्ञान और आलोचना की नयी भूमिका, रविन्द्रनाथ श्रीवास्तव, केन्द्रीय हिन्दी संस्थान, आगरा, 1980।
8. भारतीय भाषाएं और हिन्दी अनुवाद: समस्या समाधान, कैलाशचन्द्र भाटिया, वाणी प्रकाशन, नयी दिल्ली।
9. भाषा और प्रौद्योगिकी, विनोद कुमार प्रसाद, वाणी प्रकाशन, नई दिल्ली।
10. व्यावहारिक हिन्दी, प्रेमचन्द पतंजलि, वाणी प्रकाशन, नई दिल्ली।
11. प्रयोजनमूलक हिन्दी, रविन्द्रनाथ श्रीवास्तव, केन्द्रीय हिन्दी संस्थान, आगरा।
12. राजभाषा हिन्दी, कैलाश चन्द्र भाटिया, वाणी प्रकाशन, नई दिल्ली।

Mapping Matrix of Course MA/HIN/9/OEC4

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/9/OEC4) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/9/OEC4

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/9/OEC4

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	2	2	3
Average	3	3	2.75	2.75	3

Table 3: CO-PO-PSO Mapping Matrix MA/HIN/9/OEC4

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	2	2	3
Average	3	3	3	2	3	2	3	3	3	3	2.75	2.75	3

तृतीय सेमेस्टर
MA/HIN/3/CC8
भारतीय काव्यशास्त्र के सिद्धांत

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। 2x5=10
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे और परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। 15x4=60

पाठ्यक्रम का उद्देश्य (Course Objectives)

भारतीय काव्यशास्त्र का महत्व और साहित्य में उसकी उपादेयता से परिचय करवाना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. भारतीय ज्ञान की परंपराओं का बोध होगा।
2. संस्कृत भाषा में साहित्य चिंतन की जानकारी प्राप्त होगी।
3. हिंदी व अन्य भारतीय भाषाओं में साहित्य चिंतन की जानकारी प्राप्त होगी।
4. साहित्य की आलोचना और मूल्यांकन की दृष्टि का विकास होगा।

खण्ड-एक

काव्य-लक्षण, काव्य-हेतु, काव्य-प्रयोजन, काव्य-भेद।

खण्ड-दो

रस सिद्धान्त : भरतसूत्र, रस का स्वरूप, रस निष्पत्ति संबंधी एवं चार आचार्यों के मत, रस के अंग (अवयव/तत्त्व), सहृदय की अवधारणा, साधारणीकरण।

खण्ड-तीन

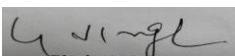
अलंकार सिद्धान्त : अलंकार-संबंधी आचार्यों के मत, अलंकार-भेद, अलंकारों का वर्गीकरण, अलंकार एवं अलंकार्य।
रीति सिद्धान्त : रीति-संबंधी वामन की स्थापनाएँ, काव्य-गुण, रीति एवं शैली।

खण्ड-चार

वक्रोक्ति सिद्धान्त : वक्रोक्ति-संबंधी कुंतक की स्थापनाएँ, वक्रोक्ति के भेद एवं उपभेद, वक्रोक्ति एवं अभिव्यंजनावाद।
ध्वनि सिद्धान्त : ध्वनि-संबंधी आनंदवर्द्धन की स्थापनाएँ, ध्वनि के भेद एवं उपभेद, ध्वनि के आधार पर काव्य भेद।
औचित्य सिद्धान्त : औचित्य-संबंधी क्षेमेन्द्र की स्थापनाएँ, औचित्य के भेद एवं उपभेद।

पुस्तक सूची -

1. काव्यशास्त्र - भगीरथ मिश्र
2. भारतीय काव्यशास्त्र- योगेन्द्र प्रताप सिंह
3. भारतीय काव्यशास्त्र- सत्यदेव चौधरी
4. रस सिद्धान्त- नगेन्द्र
5. काव्य के तत्व- देवेन्द्रनाथ शर्मा





Mapping Matrix of Course MA/HIN/3/CC8

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix) Table 1: shows the CO-PO mapping matrix for a course (MA/HIN/3/CC8) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/3/CC8

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.25	3	2.5	2.75	2.25	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/3/CC8

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3: CO-PO-PSO Mapping Matrix MA/HIN/3/CC8

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.25	3	2.5	2.75	2.25	3	3	3	3	2.25	3	3

MA/HIN/3/CC9
स्वातन्त्र्योत्तर आधुनिक हिंदी काव्य

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

स्वातन्त्र्योत्तर हिन्दी कविता के निरंतर बदलते स्वरूप का परिचय कराना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. स्वातन्त्र्योत्तर हिन्दी कविता, आधुनिक हिन्दी कविता की पृष्ठभूमि की जानकारी प्राप्त।
2. स्वातन्त्र्योत्तर हिन्दी कविता संवेदना, शिल्प, सामाजिक सरोकारों से परिचय होगा।
3. स्वातन्त्र्योत्तर हिन्दी कविता के विभिन्न कवियों के काव्य वैशिष्ट्य का बोध हो सकेगा।
4. स्वातन्त्र्योत्तर हिन्दी कविता का नवजागरण और राष्ट्रीय आंदोलन से संबंधों का बोध हो सकेगा।

खण्ड-एक

अज्ञेय : असाध्यवीणा, यह दीप अकेला, कितनी नावों में कितनी बार, पहले में सन्नाटा बुनता हूँ।

खण्ड-दो

मुक्तिबोध : अधरे में, कदम कदम पर।

खण्ड-तीन

नरेश मेहता : संशय की एक रात, समय देवता।

खण्ड-चार

तीनों खण्डों पर आधारित सप्रसंग व्याख्या

पुस्तकसूची :

1. अज्ञेय और आधुनिक रचना की समस्या- रामस्वरूप चतुर्वेदी।
2. हिन्दी साहित्य की अधुनातन प्रवृत्तियाँ- रामस्वरूप चतुर्वेदी।
3. नयी कविताएँ: एक साक्ष्य - रामस्वरूप चतुर्वेदी।

Mapping Matrix of Course MA/HIN/3/CC9
Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: CO-PO Matrix for the Course MA/HIN/3/CC9

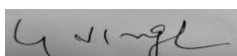
CO	PO	PO	PO	PO	PO	PO	PO	PO
	1	2	3	4	5	6	7	8
LO1	3	2	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.25	3	2.5	2.75	2.25	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)
Table 2: CO-PSO Matrix for the Course MA/HIN/3/CC9

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.5	3	3

Table 3 CO-PO-PSO Mapping Matrix MA/HIN/3/CC9

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	3	3	2	3	3	3	3	3	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.25	3	2.5	2.75	2.25	3	3	3	3	2.5	3	3




MA/HIN/3/CC10
स्वातंत्र्योत्तर हिंदी उपन्यास

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न पुछे जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम के उद्देश्य (Course Objectives)

हिन्दी उपन्यास की विकास परंपरा का ज्ञान कराना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. हिंदी उपन्यास की समझ विकसित होगी।
2. भारतीय मध्यवर्ग, किसान व अन्य वर्गों की उपन्यासों में उपस्थिति का बोध।
3. स्वतंत्रता पूर्व व स्वतंत्र भारत की नब्ज को उपन्यास साहित्य के माध्यम से विद्यार्थी चिह्नित कर सकेंगे।
4. हिंदी उपन्यासों की संरचना व शिल्प का बोध।

खण्ड-एक

अज्ञेय : शेखर: एक जीवन भाग 1-2

खण्ड-दो

यशपाल : झूठासच

खण्ड-तीन

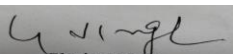
मन्नू भंडारी- आपका बंटी

खण्ड-चार

तीनों खण्डों पर आधारित सप्रसंग व्याख्या

पुस्तक सूची :

1. शेखर: एक जीवनी, लेखक - डॉ. गोपालराम, ग्रन्थ निकेतन, पटना।
2. अज्ञेय और उनका साहित्य, लेखक - डॉ. पूनमचन्दतिवारी, राजश्रीप्रकाशन, भोपाल।
3. यशपाल: व्यक्तित्व और कृतित्व, लेखक - डॉ. सरोज गुप्त, अनुराग प्रकाशन, अजमेर।
4. यशपाल के उपन्यास, लेखक- कुमारी स्नेहलता शर्मा, कौशाम्बी प्रकाशन, इलाहाबाद।
5. हिन्दी उपन्यास: नये क्षितिज, लेखक - डॉ. शशिभूषण सिंहल, प्रेम प्रकाशन मंदिर, दिल्ली





Mapping Matrix of Course MA/HIN/3/CC10

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: CO-PO Matrix for the Course MA/HIN/3/CC10

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	2	3	2	2	3	3	3
LO2	3	2	3	3	3	3	3	3
LO3	3	3	3	2	2	2	2	3
LO4	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.5	2.5	2.75	2.75	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/3/CC10

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3: CO-PO-PSO Mapping Matrix MA/HIN/3/CC10

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	2	3	2	2	3	3	3	3	3	3	3	3
LO2	3	2	3	3	3	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	2	2	3	3	3	3	3	3
LO4	3	3	3	3	3	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.5	2.5	2.75	2.75	3	3	3	3	3	3

MA/HIN/3/CC11
हिंदी साहित्यालोचन

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न पुछे जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे और परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। $15 \times 4 = 60$

पाठ्यक्रम के उद्देश्य (Course Objectives)

साहित्यशास्त्र का परिचय देना जिससे साहित्यिक समझ एवं दृष्टि विकसित होती है।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. हिंदी आलोचना के विकास का परिचय हो सकेगा।
2. हिंदी समीक्षा की आलोचनात्मक समझ विकसित होगी।
3. हिंदी आलोचना के विकास व विभिन्न आलोचकों की आलोचना दृष्टि से परिचय प्राप्त हो सकेगा।
4. साहित्यालोचना की क्षमता विकसित होगी।

खण्ड-एक

भारतेन्दु हरिश्चंद्र, बालकृष्ण भट्ट एवं महावीर प्रसाद द्विवेदी।

खण्ड-दो

आचार्य रामचन्द्र शुक्ल, आचार्य हजारी प्रसाद द्विवेदी एवं रामविलास शर्मा।

खण्ड-तीन

आचार्य नन्ददुलारे वाजपेयी, नामवर सिंह एवं नगेन्द्र।

खण्ड-चार

दिनकर, अज्ञेय, मुक्तिबोध, निर्मल वर्मा।

पुस्तक सूची :

1. हिन्दी समीक्षा स्वरूप और संदर्भ, लेखक- डॉ. रामदरश मिश्र, दि. मैकमिलन कंपनी आफ इण्डिया लिमिटेड, दिल्ली।
2. विसंरचनात्मक आलोचना: अर्थ की सर्जना, लेखक- पाण्डेय शशिभूषण, शीतांशु नेशनल पब्लिशिंग हाउस, जयपुर।
3. आचार्य रामचन्द्र शुक्ल: सिद्धान्त और साहित्य, लेखक- जयचन्द्र राय, भारतीय साहित्य मन्दिर, दिल्ली।
4. आचार्य रामचन्द्र शुक्ल और भारतीय समीक्षा, सम्पादक- सुरेशकुमार, केन्द्रीय हिन्दी संस्थान, आगरा। 5. आचार्य हजारी प्रसाद द्विवेदी: व्यक्तित्व और कृतित्व, कुमारी पी. वासवदत्ता, युगवाणी प्रकाशन, कानपुर।

Mapping Matrix of Course MA/HIN/3/CC11

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: CO-PO Matrix for the Course MA/HIN/3/CC11

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	3	3	2	3	3	3	3
LO2	3	3	3	2	3	3	3	3
LO3	3	3	3	3	3	3	3	3
LO4	3	3	3	3	3	3	3	3
Average	3	3	3	2.75	2.75	3	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/3/CC11

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3: CO-PO-PSO Mapping Matrix MA/HIN/3/CC11

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	3	3	3	3	3	3	3	3	3
LO2	3	3	3	2	3	3	3	3	3	3	3	3	3
LO3	3	3	3	3	3	3	3	3	3	3	3	3	3
LO4	3	3	3	3	3	3	3	3	3	3	3	3	3
Average	3	3	3	2.75	2.75	3	3	3	3	3	3	3	3

MA/HIN/3/DSC9

प्रेमचन्द : एक विशेष अध्ययन

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न पुछे जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

प्रेमचंद के जीवन, साहित्य, दर्शन और उनके साहित्यिक अवदान से परिचय करवाना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. प्रेमचंद के जीवन, साहित्य और दर्शन का बोध होगा।
2. प्रेमचंद के साहित्यिक अवदान की समझ विकसित होगी।
3. प्रेमचंद के कथा सरोकारों व मूल्यों का बोध होगा।
4. नवजागरण व राष्ट्रीय आंदोलन में हिंदी साहित्य के योगदान की समझ विकसित होगी।

खण्ड एक

ग़बन— प्रेमचन्द, हंस प्रकाशन, इलाहाबाद।

खण्ड दो

प्रतिनिधि कहानियाँ— प्रेमचन्द, राजकमल प्रकाशन, नई दिल्ली।

खण्ड तीन

प्रेमचन्द के श्रेष्ठ निबन्ध— सत्य प्रकाशन, लोकभारती प्रकाशन, दिल्ली।

खण्ड चार

तीनों पुस्तकों पर आधारित व्याख्या।

पुस्तक सूची—

1. प्रेमचन्द: चिन्तन और कला— इनद्रनाथ मदान, सरस्वती प्रेस, बनारस।
2. प्रेमचन्द और उनका युग— रामविलास शर्मा, राजकमल प्रकाशन, दिल्ली।
3. प्रेमचन्द और भारतीय किसान— रामवृक्ष, वाणी प्रकाशन, नई दिल्ली।
4. प्रेमचन्द और उनका साहित्य— शीला गुप्त, साहित्य भवन प्रा. लिमिटेड, इलाहाबाद।
5. प्रेमचन्द— सत्येन्द्र, राधाकृष्ण प्रकाशन, नई दिल्ली।

Mapping Matrix of Course MA/HIN/3/DSC9

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/3/DSC9) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/3/DSC9

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	3	3	3	3	2	3	3
LO4	3	3	3	2	3	3	3	3
Average	3	3	3	2.75	3	2.50	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/3/DSC9

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3:CO-PO-PSO Mapping MatrixMA/HIN/3/DSC9

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3	2	3	3	3	3	3	3	3
LO2	3	3	3	3	3	2	3	3	3	3	3	3	3
LO3	3	3	3	3	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	3	3	3	3	3	3	3	3
Average	3	3	3	2.75	3	2.50	3	3	3	3	3	3	3

MA/HIN/3/DSC10
महादेवी वर्मा : एक विशेष अध्ययन

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न चुने जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
2. निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम के उद्देश्य-

महादेवी वर्मा के साहित्य के माध्यम छायावाद युगीन हिंदी साहित्य की राष्ट्रीय व सांस्कृतिक मूल्यों की पहचान करना।

पाठ्यक्रम के अपेक्षित परिणाम

1. महादेवी युगीन परिस्थितियों का समग्र अध्ययन कर पायेंगे।
2. महादेवी वर्मा के साहित्य के माध्यम छायावाद युगीन हिंदी साहित्य की राष्ट्रीय व सांस्कृतिक मूल्यों की पहचान कर पायेंगे।
3. महादेवी वर्मा के नारी विषयक लेखन के संदर्भ में नारी-विमर्श का विश्लेषण कर पाएंगे।
4. छायावाद की दार्शनिक पृष्ठभूमि का अध्ययन कर पाएंगे।

खण्ड एक

संधिनी
मेरा परिवार

खण्ड दो

शृंखला की कड़ियाँ

खण्ड तीन

अतीत के चलचित्र

खण्ड चार

तीनों पुस्तकों पर आधारित व्याख्या।

पुस्तक सूची-

1. नवजागरण और महादेवी वर्मा का रचना कर्म : स्त्री विमर्श के स्वर- कृष्णदत्त पालीवाल।
2. महीयसी महादेवी- गंगा प्रसाद पांडेय।
3. हिन्दी का गद्य साहित्य- राम चन्द्र तिवारी।
4. गवेषणा (पत्रिका) अंक- 87, सम्पादक-शंभुनाथ सिंह।
5. महादेवी वर्मा का काव्य : कला और दर्शन- रश्मि दीक्षित, केंद्रीय हिन्दी संस्थान-1999
6. महादेवी वर्मा : काव्य, कला और दर्शन-सम्पादिका-शची रानी गुर्तू, आत्मा राम एण्ड संस, दिल्ली-1963
7. महादेवी वर्मा और उनकी संधिनी-श्याम बजाज, अशोक प्रकाशन, नई दिल्ली।

G. Singh

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Mapping Matrix of Course MA/HIN/3/DSC10

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/3/DSC10) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/3/DSC10

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	3	3	3	3	2	3	3
LO4	3	3	3	3	2	3	3	2
Average	3	3	3	3	2.75	2.50	3	2.75

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/3/DSC10

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	2
Average	3	3	2.75	3	2.75

Table 3: CO-PO-PSO Mapping Matrix MA/HIN/3/DSC10

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	3	3	3
LO3	3	3	3	3	3	2	3	3	3	3	3	3	3
LO4	3	3	3	3	2	3	3	2	3	3	3	3	2
Average	3	3	3	3	2.75	2.50	3	2.75	3	3	2.75	3	2.75

MA/HIN/1/SEC2
कंप्यूटर का हिन्दी में अनुप्रयोग

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश:

1. सम्पूर्ण पाठ्यक्रम में से 5 अनिवार्य लघु प्रश्न पूछे जाएंगे। 2x5 = 10
2. निर्धारित चार खण्डों में से दो-दो आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षार्थी को प्रत्येक खण्ड में से एक-एक प्रश्न का उत्तर देना अनिवार्य है। 15x4 = 60

पाठ्यक्रम का उद्देश्य (Course Objectives)

विद्यार्थियों को कंप्यूटर संबंधी सामान्य जानकारी देना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. विद्यार्थियों की हिंदी टंकण के प्रति जानकारी बढ़ेगी।
2. कंप्यूटर व उसके उपकरणों के प्रति ज्ञान में वृद्धि।
3. कंप्यूटर के माध्यम से विद्यार्थियों को अद्यतन जानकारी मिलेगी।
4. हिंदी भाषा के विकास में कंप्यूटर के योगदान का महत्व समझा जायेगा।

खण्ड-1

कम्प्यूटर (संगणक) प्रणाली- परिचय, उद्भव एवं विकास परिभाषा, उपकरण और प्रयोग आंकडा संसाधन, वर्तनी संशोधन

खण्ड-2

इंटरनेट का ऐतिहासिक परिचय, इंटरनेट के उपकरणों का परिचय, समय मितव्ययिता का सूत्र, वर्ल्ड वाइड वेब (WWW) का विकास, प्रचार, प्रसार डाउनलोड एवं अपलोड

खण्ड-3

हिंदी वेबसाइट्स: परिचय, पोर्टल क्या है?, पोर्टल का स्वरूप, हिंदी पोर्टल, वेबसाइट परिभाषा, हिंदी वेबसाइट्स : वर्गीकरण, भाषा, साहित्य, पत्रिकाएं, समाचार आदि

खण्ड-4

हिंदी साहित्य से संबंधित कुछ महत्वपूर्ण वेबसाइट्स और ब्लॉगपोस्ट का परिचय, सोशल साइट्स का परिचय, उपयोग और महत्व।

पुस्तक सूची

- 1 अपना कम्प्यूटर अपनी भाषा में- राजेश रजन- हिंदी बुक्स सेटर, नई दिल्ली
- 2 आधुनिक कम्प्यूटर विज्ञान- विनोद कुमार मिश्र- हिंदी बुक्स सेटर, नई दिल्ली
- 3 Basic Computer- Deepak Chakravarti & Hindi book center-
- 4 कम्प्यूटर और हिंदी- हरिमोहन-हिंदी बुक्स सेटर।।
- 5 कम्प्यूटर बेसिक शिक्षा-गुंजन शर्मा-हिंदी बुक्स सेटर।
- 6 आओ कम्प्यूटर जानें- अमित गर्ग-हिंदी बुक्स सेटर।
- 7 कम्प्यूटर बेसिक नॉलेज- कोमल कथूरिया-हिंदी बुक्स सेटर।

Mapping Matrix of Cours MA/HIN/1/SEC2

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: shows the CO-PO mapping matrix for a course (MA/HIN/1/SEC2) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/1/SEC2

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	3	3	2	3	3
LO4	3	3	3	3	2	3	3	3
Average	3	2.75	3	3	2.75	2.25	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/1/SEC2

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3: CO-PO-PSO Mapping Matrix MA/HIN/1/SEC2

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	3	3	2	3	3	3	3	2	3	3
LO4	3	3	3	3	2	3	3	3	3	3	3	3	3
Average	3	2.75	3	3	2.75	2.25	3	3	3	3	3	3	3

MA/HIN/9/OEC5

साहित्य की समझ

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश:

1. सम्पूर्ण पाठ्यक्रम में से 5 अनिवार्य लघु प्रश्न पूछे जाएंगे। 2x5 = 10
2. निर्धारित चार खण्डों में से दो-दो आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षार्थी को प्रत्येक खण्ड में से एक-एक प्रश्न का उत्तर देना अनिवार्य है। 15x4 = 60

पाठ्यक्रम का उद्देश्य (Course Objectives)

- विद्यार्थियों को साहित्य संबंधी जानकारी देना।

पाठ्यक्रम के अपेक्षित परिणाम) Course Learning Outcomes

- साहित्य के बारे में विद्यार्थियों को सामान्य जानकारी देना।
- साहित्य व समाज के संबंधों का ज्ञान उपलब्ध कराना।
- साहित्य संबंधी अवधारणाओं का परिचय देना।
- साहित्य व अन्य कलाओं का अन्तःसंबंध दिखाना।

खंड-1

साहित्य का अर्थ, भारतीय एवं पाश्चात्य साहित्य संबंधी अवधारणाएं, परिभाषा एवं स्वरूप, साहित्य का प्रयोजन

खंड-2

साहित्य और समाज साहित्य दर्शन, साहित्य और संस्कृति,

खंड-3

अस्तित्ववाद, मनोविश्लेषणवाद, मार्क्सवाद :- साहित्य और विचारधाराएं, साहित्य और इतिहास

खंड-4

साहित्य और विमर्श :- आदिवासी विमर्श, दलित विमर्श, स्त्री विमर्श

संदर्भ सूची

1. हिन्दी साहित्य का इतिहास प्रकाशन संस्थान, आचार्य रामचन्द्र शुक्ल,
2. हिन्दी साहित्य की भूमिका नई दिल्ली।, राजकमल प्रकाशन, हजारी प्रसाद द्विवेदी,
3. साहित्य के समाजशास्त्र की भूमिका नई दिल्ली।, वाणी प्रकाशन, मैनेजर पांडेय,
4. साहित्य के सिद्धांत तथा रूप नई दिल्ली।, राजकमल प्रकाशन, भगवतीचरण वर्मा,
5. आलोचना और विचारधारा नई दिल्ली।, राजकमल प्रकाशन, नामवर सिंह,
6. दलित साहित्य का सौंदर्यशास्त्र, शरणकुमार लिम्बले, वाणी प्रकाशन, नई दिल्ली।
7. साहित्य का नया सौंदर्यशास्त्र, सं. देवेन्द्र चौबे, किताब घर प्रकाशन, नई दिल्ली।

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Mapping Matrix of Course MA/HIN/9/OEC5

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/9/OEC5) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/9/OEC5

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

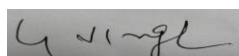
Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/9/OEC5

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3; CO-PO-PSO Mapping Matrix MA/HIN/9/OEC5

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	3	3	2	3	2	3	3	3	3	3	2.75	3




MA/HIN/9/OEC6
अनुवाद सिद्धांत

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश:

1. सम्पूर्ण पाठ्यक्रम में से 5 अनिवार्य लघु प्रश्न पूछे जाएंगे। 2x5 = 10
2. निर्धारित चार खण्डों में से दो-दो आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षार्थी को प्रत्येक खण्ड में से एक-एक प्रश्न का उत्तर देना अनिवार्य है। 15x4 = 60

पाठ्यक्रम का उद्देश्य (Course Objectives)

कार्यालयी हिन्दी के सैद्धांतिक स्वरूप का ज्ञान प्रदान करना और अनुवाद विज्ञान की सैद्धांतिक जानकारी और महत्व प्रदान करना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. अनुवाद का सैद्धांतिक और व्यवहारिक ज्ञान।
2. अनुवाद करने की योग्यता में अभिवृद्धि।
3. कम्प्यूटर युग में मशीनी अनुवाद और अनुवाद कि विभिन्न प्रविधियों का ज्ञान होगा।
4. कार्यालयी राजभाषा के प्रमुख प्रकारों की जानकारी प्राप्त करते हुए अनुवाद का व्यवहारिक ज्ञान होगा।

खंड-एक

अनुवाद-अर्थ, परिभाषा, क्षेत्र, प्रकार, प्रक्रिया, सीमाएं
अनुवाद का महत्व एवं आवश्यकता

खंड-दो

प्रशासनिक शब्दावली-केन्द्रीय हिंदी निदेशालय, रामकृष्णपुरम, नई दिल्ली द्वारा प्रकाशित।

खंड-तीन

अनुवाद: अंग्रेजी से हिंदी अनुवाद

खंड-चार

कार्यालयी अनुवाद- मूलभूत अपेक्षाएं, प्रपत्र, सरकारी-पत्र, जापन, आदेश, टिप्पणी लेखन, अधिसूचना, प्रेस नोट, प्रेस विज्ञप्ति तथा अनुवाद

सन्दर्भ पुस्तक सूची-

1. अनुवाद प्रक्रिया और स्वरूप-कैलाश चन्द्र भाटिया, तक्षशिला प्रकाशन, नई दिल्ली।
2. अनुवाद के विविध आयाम-पूरण चंद टंडन व हरीश कुमार सेठी, तक्षशिला प्रकाशन, नई दिल्ली।
3. अनुवाद सिद्धांत और प्रयोग-कैलाश चन्द्र भाटिया, तक्षशिला प्रकाशन, नई दिल्ली।
4. अनुवाद विज्ञान-राजमणि शर्मा, नई दिल्ली।
5. अनुवाद विज्ञान और सम्प्रेषण-तक्षशिला प्रकाशन, नई दिल्ली।
6. अनुवाद विज्ञान और आलोचना की नई भूमिका-रविन्द्र श्रीवास्तव, केन्द्रीय हिंदी संस्थान, नई दिल्ली।

Mapping Matrix of Course MA/HIN/9/OEC6

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/9/OEC6) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/9/OEC6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	3	3	2	3	2	3	3
LO2	3	3	3	2	3	2	3	3
LO3	3	3	3	2	3	2	3	3
LO4	3	3	3	2	3	2	3	3
Average	3	3	3	2	3	2	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/9/OEC6

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	2	3
Average	3	3	3	2.75	3

Table 3; CO-PO-PSO Mapping Matrix MA/HIN/9/OEC6

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	3	2	3	3	3	3	3	3	3
LO2	3	3	3	2	3	2	3	3	3	3	3	3	3
LO3	3	3	3	2	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	3	3	3	2	3	2	3	3	3	3	3	2.75	3

चतुर्थ-सेमेस्टर
MA/HIN/4/CC12
पाश्चात्य काव्यशास्त्र के सिद्धान्त

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश:

1. सम्पूर्ण पाठ्यक्रम में से 5 अनिवार्य लघु प्रश्न पूछे जाएंगे। 2x5 = 10
2. निर्धारित चार खण्डों में से दो-दो आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षार्थी को प्रत्येक खण्ड में से एक-एक प्रश्न का उत्तर देना अनिवार्य है। 15x4 = 60

पाठ्यक्रम का उद्देश्य (Course Objectives)

पाश्चात्य काव्यशास्त्र का परिचय देना जिससे साहित्यिक समझ एवं दृष्टि विकसित करना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. पाश्चात्य ज्ञान की परंपराओं का बोध होगा।
2. पाश्चात्य साहित्य चिंतन की जानकारी विकसित होगी।
3. पाश्चात्य साहित्य चिंतन में विभिन्न विचारधाराओं, वादों, पद्धतियों का परिचय होगा।
4. साहित्य की आलोचना और मूल्यांकन की दृष्टि का विकास होगा।

खण्ड-एक

प्लेटो : आदर्शवाद

अरस्तू : अनुकरण एवं विरेचन सिद्धान्त, त्रासदी की अवधारणा

लॉजाइनस : उदात्त सिद्धान्त

होरेस : औचित्य सिद्धान्त

खण्ड-दो

कॉलरिज : कल्पना सिद्धान्त

विलियम वर्ड्सवर्थ : कविता-संबंधी अवधारणा एवं काव्यभाषा सिद्धान्त

क्रोचे : अभिव्यंजनावाद

खण्ड-तीन

टी.एस.इलियट : परंपरा एवं वैयक्तिक प्रज्ञा का सिद्धान्त, निर्वैयक्तिकता का सिद्धान्त

आई.ए.रिचर्ड्स : मूल्य सिद्धान्त

मैथ्यू आर्नाल्ड : आलोचना-संबंधी अवधारणा

खण्ड-चार

मार्क्सवाद, मनोविश्लेषणवाद, अस्तित्ववाद, आधुनिकतावाद, उत्तरआधुनिकतावाद

पुस्तकसूची :

1. पाश्चात्य काव्यशास्त्र के सिद्धान्त – डॉ. शांतिस्वरूपगुप्त
2. पाश्चात्य काव्यशास्त्र – डॉ. सावित्री सिन्हा
3. पाश्चात्य काव्यशास्त्र के सिद्धान्त – डॉ. मैथिली प्रसाद भारद्वाज, हरियाणा साहित्य अकादमी, चण्डीगढ़।
4. पाश्चात्य काव्यशास्त्र – देवेन्द्रनाथ शर्मा, नेशनल पब्लिशिंग हाउस, नई दिल्ली।
5. पाश्चात्य काव्यशास्त्र की परम्परा – डॉ. तारकनाथ बाली, शब्दकार, दिल्ली।
6. आलोचक और आलोचना – बच्चन सिंह, विश्वविद्यालय प्रकाशन, दिल्ली।
7. प्रगतिशील हिन्दी आलोचना की रचना-प्रक्रिया – हौसिला प्रसाद सिंह, विश्वविद्यालय प्रकाशन, वाराणसी।
8. पाश्चात्य काव्यशास्त्र: अधुनातन सन्दर्भ – सत्यदेव मिश्र, लोकभारती प्रकाशन, इलाहाबाद।
9. पाश्चात्य काव्य-चिन्तन – डॉ. करुणाशंकर उपाध्याय, राधाकृष्ण प्रकाशन, दिल्ली।
10. हिन्दी आलोचना के आधार स्तम्भ – सम्पादक रामेश्वरलाल खण्डेलवाल, लोकभारती प्रकाशन, इलाहाबाद।
11. हिन्दी आलोचना की परिभाषिक शब्दावली – डॉ. अमरनाथ, राजकमल प्रकाशन, दिल्ली।

Mapping Matrix of Course MA/HIN/4/CC12
Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/4/CC12) assuming that there are 8 POs and 4 COs.

Table 1: CO-PO Matrix for the Course MA/HIN/4/CC12

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.5	3	2.5	2.75	2.25	3	3

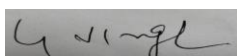
Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/4/CC12

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3 CO-PO-PSO Mapping Matrix MA/HIN/4/CC12

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO3	PSO4	PSO 5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.5	2.75	2.25	3	3	3	3	2.25	3	3




अध्यापन अवधि : 4 घंटे

समय : 3 घंटे

कुल अंक : 100

लिखित परीक्षा : 70 अंक

आंतरिक मूल्यांकन : 30 अंक

निर्देश:

1. सम्पूर्ण पाठ्यक्रम में से 5 अनिवार्य लघु प्रश्न पूछे जाएंगे। 2x5 = 10
2. निर्धारित चार खण्डों में से दो-दो आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षार्थी को प्रत्येक खण्ड में से एक-एक प्रश्न का उत्तर देना अनिवार्य है। 15x4 = 60

पाठ्यक्रम का उद्देश्य (Course Objectives)

भारतीय साहित्य के विविध आयाम इसे आधुनिकता और विश्व-दृष्टि से जोड़ते हैं, इनका अध्ययन करना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. भारतीय साहित्य की अवधारणा की समझ विकसित होगी।
2. भारतीय साहित्य में अभिव्यक्त मूल्यों से परिचय होगा।
3. भारतीय साहित्य में राष्ट्रीय एकता के सूत्रों का बोध होगा।
4. हिंदी साहित्य की हिंदी से इतर भाषाओं के साहित्य की तुलनात्मक बोध हो सकेगा।

खण्ड एक

1. भारतीय साहित्य का इतिहास
2. भारतीय साहित्य के विविध रूप
3. भारतीय साहित्य में भक्ति आंदोलन
4. आधुनिक भारतीय साहित्य का परिचय

खण्ड दो

1. भारतीय साहित्य के अध्ययन की समस्याएँ
2. भारतीयता और भारतीय साहित्य
3. भारतीय साहित्य में संस्कृति
4. भारतीय साहित्य की विशेषताएँ

खण्ड तीन-

आनन्द मठ (बंगला से उपन्यास)- बंकिमचन्द्र चटर्जी

खण्ड चार-

घासीराम कोतवाल (मराठी से अनूदित नाटक)- विजय तेंदुलकर

पुस्तक सूची-

1. बंगला साहित्य का इतिहास- सुकुमार सेन, साहित्य अकादमी, नई दिल्ली- 1970
2. भारतीय साहित्य : अध्ययन की नई दिशाएँ- प्रदीप श्रीधर, तक्षशिला प्रकाशन, नई दिल्ली- 2010
3. भारतीय साहित्य दर्शन- के एल हंस, ग्रंथम रामबाग, कानपुर-1073
4. भारतीय साहित्य की रूपरेखा-भोले पंकर व्यास, चौखम्भा प्रकाशन, वाराणसी- 2008
5. भारतीय साहित्य- मूलचन्द्र गौतम, राधाकृष्ण प्रकाशन, नई दिल्ली- 2011

Mapping Matrix of Course MA/HIN/4/CC13

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/4/CC13) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/4/CC13

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.5	3	2.5	2.75	2.25	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/4/CC13

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3: CO-PO-PSO Mapping Matrix MA/HIN/4/CC13

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	2	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.5	2.75	2.25	3	3	3	3	2.25	3	3

MA/HIN/4/CC14
हरियाणा का हिंदी साहित्य

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश:

1. सम्पूर्ण पाठ्यक्रम में से 5 अनिवार्य लघु प्रश्न पूछे जाएंगे। 2x5 = 10
2. निर्धारित चार खण्डों में से दो-दो आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षार्थी को प्रत्येक खण्ड में से एक-एक प्रश्न का उत्तर देना अनिवार्य है। 15x4 = 60

पाठ्यक्रम का उद्देश्य (Course Objectives)

बालमुकुंद गुप्त, विष्णु प्रभाकर, गोपालदास नीरज के जीवन, साहित्य, दर्शन और उनके साहित्यिक अवदान से परिचय।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. बालमुकुंद गुप्त, विष्णु प्रभाकर, गोपालदास नीरज के जीवन, साहित्य और दर्शन का बोध होगा।
2. बालमुकुंद गुप्त, विष्णु प्रभाकर, गोपालदास नीरज के हिंदी भाषा के निर्माण व साहित्यिक अवदान की समझ होगी।
3. बालमुकुंद गुप्त, विष्णु प्रभाकर, गोपालदास नीरज के पत्रकारिता, काव्य सरोकारों व मूल्यों का बोध होगा।
4. नवजागरण व राष्ट्रीय आंदोलन में बालमुकुंद गुप्त, विष्णु प्रभाकर, गोपालदास नीरज के हिंदी साहित्य में योगदान की समझ विकसित होगी।

खण्ड एक

बालमुकुन्द गुप्त निबन्धावली

खण्ड दो

अर्धनारीश्वर- विष्णु प्रभाकर

खण्ड तीन

गोपालदास नीरज

निम्नलिखित आठ कविताएँ-

1- किसके लिए ? 2- आँसू जब सम्मानित होंगे, 3- अपनी बानी प्रेम की बानी, 4- प्यार की कहानी चाहिए,
5- भावनगर से अर्थनगर तक, 6- ठाठ है फकीरी अपना, 7- चल औघट घाट पे यार जरा, 8- यह प्यासों की प्रेमसभा है।

खण्ड चार

उदयभानु हंस

निम्नलिखित आठ कविताएँ-

1- मत जियो सिर्फ अपनी खुशी के लिए ? 2- आदमी खोखले हैं पूस के बादल की तरह, 3- जिंदगी फूस की झोंपड़ी है, 4- बैठे हों जब वो पास, खुदा खैर करे, 5- जी रहे हैं लोग कैसे आज के वातावरण में, 6- कब तक यूँ बहारों में पतझड़ का चलन रहेगा, 7- भेड़ियों के ढंग, 8- मैं तुझसे प्रीत लगा बैठा।

पुस्तक सूची-

1. हरियाणा का हिन्दी साहित्य- लाल चन्द गुप्त मंगल, हरियाणा साहित्य अकादमी, पंचकुला ।
2. हरियाणा एक सांस्कृतिक अध्ययन- साधुराम शारदा, भाषा विभाग हरियाणा, पंचकुला ।
3. हरियाणा में रचित हिन्दी साहित्य- सत्यपाल गुप्त, भाषा विभाग हरियाणा, पंचकुला ।
4. 'सप्तसिन्धु' (हरियाणा साहित्य विशेषांक), भाषा विभाग, हरियाणा, पंचकुला ।

Mapping Matrix of Course MA/HIN/4/CC14

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/4/CC14) assuming that there are 8 POs and 4COs.

Table 1: CO-PO Matrix for the Course MA/HIN/4/CC14

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.5	3	2.75	2.75	2.25	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/4/CC14

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3 **CO-PO-PSO Mapping Matrix MA/HIN/4/CC14**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
MA/HIN/4/CC14.1	3	3	3	3	3	2	3	3	3	3	2	3	3
MA/HIN/4/CC14.2	3	3	3	3	3	2	3	3	3	3	2	3	3
MA/HIN/4/CC14.3	3	2	3	3	3	2	3	3	3	3	2	3	3
MA/HIN/4/CC14.4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.7	2.7	2.2	3	3	3	3	2.25	3	3

MA/HIN/4/DSC11
प्रवासी हिन्दी साहित्य

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश:

1. सम्पूर्ण पाठ्यक्रम में से 5 अनिवार्य लघु प्रश्न पूछे जाएंगे। 2x5 = 10
2. निर्धारित चार खण्डों में से दो-दो आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षार्थी को प्रत्येक खण्ड में से एक-एक प्रश्न का उत्तर देना अनिवार्य है। 15x4 = 60

पाठ्यक्रम का उद्देश्य (Course Objectives)

हिंदी के प्रवासी रचनाकारों से रूबरू होना। विस्थापन की समस्या, कारणों, प्रभावों की पड़ताल करना.

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. विश्व हिंदी साहित्य की अवधारणा की समझ विकसित होगी।
2. विश्व साहित्य की विभिन्न विधाओं के साहित्य से परिचय होगा।
3. भारतीय साहित्य के साथ तुलना की समझ विकसित होगी।
4. विश्वसाहित्य की आलोचनात्मक समझ में अभिवृद्धि होगी।

खण्ड-एक

भारत से विस्थापन का इतिहास एवं कारण, प्रवासी साहित्य की अवधारणा, स्वरूप एवं विकास।

खण्ड-दो

हिन्दी में प्रवासी लेखन का आरम्भ, प्रवासी लेखन की प्रवृत्तियाँ।

खण्ड-तीन

लाल पसीना – अभिमन्यु अनंत, राजकमल प्रकाशन, नई दिल्ली
केक्टस के दाँत – अभिमन्यु अनंत

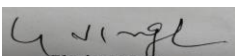
खण्ड-चार

कहानियाँ कथालंदन, सं. सूरजप्रकाश, प्रकाशन संस्थान, नई दिल्ली

1. कोख का किराया – तेजेन्द्र शर्मा
2. घर का ठूँठ – सैल अग्रवाल

पुस्तक सूची :

1. प्रवासी संसार, सम्पादक – राकेश पाण्डेय।
2. प्रवासी कहानियाँ, सम्पादक – हिमांशु जोशी, साहित्य अकादमी।
3. वर्तमान साहित्य प्रवासी साहित्य विशेषांक, सम्पादक – कुंवरपाल सिंह।
4. समकालीन कथा साहित्य : सरहदें व सरोकार, डॉ. रोहिणी अग्रवाल, आधार प्रकाशन, पंचकुला।





Mapping Matrix of Course MA/HIN/4/DSC11
Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)
Table 1: CO-PO Matrix for the Course MA/HIN/4/DSC11

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3
Average	3	2.5	3	2.75	2.75	2.25	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/4/DSC11

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	2.25	3	3

Table 3 CO-PO-PSO Mapping Matrix MA/HIN/4/DSC11

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	3	3	2	3	3	3	3	2	3	3
LO4	3	2	3	2	2	3	3	3	3	3	3	3	3
Average	3	2.5	3	2.75	2.75	2.25	3	3	3	3	2.25	3	3

MA/HIN/4/DSC12
जनसंचार माध्यम एवं हिंदी

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश:

1. सम्पूर्ण पाठ्यक्रम में से 5 अनिवार्य लघु प्रश्न पूछे जाएंगे। 2x5 = 10
2. निर्धारित चार खण्डों में से दो-दो आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षार्थी को प्रत्येक खण्ड में से एक-एक प्रश्न का उत्तर देना अनिवार्य है। 15x4 = 60

पाठ्यक्रम का उद्देश्य (Course Objectives)

हिंदी पत्रकारिता व जनसंचार विभिन्न माध्यमों के स्वरूप, विकास तथा मीडिया के विविध पहलुओं से परिचय करवाना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. हिंदी पत्रकारिता के विकास की समझ विकसित होगी।
2. जनसंचार के सिद्धांतों व व्यावहारिक पहलुओं की समझ विकसित होगी।
3. जनसंचार के प्रिंट माध्यमों के लिए लेखन की क्षमता में अभिवृद्धि होगी।
4. जनसंचार के इलेक्ट्रॉनिक व इंटरनेट के लिए लेखन की क्षमता में अभिवृद्धि विकसित होगी।

खण्ड-एक

जनसंचार- अवधारणा, स्वरूप व विकास, जनसंचार के प्रमुख सिद्धान्त और सिद्धान्तकार, सूचना प्रौद्योगिकी के विविध रूप

खण्ड-दो

प्रिंट मीडिया का स्वरूप (समाचार-पत्र एवं पत्रिकाएं आदि), प्रिंट मीडिया के लिए लेखन (संपादकीय एवं फीचर आदि), प्रिंट मीडिया की भाषा।

खण्ड-तीन

भाषा की सूचनात्मक क्षमता- सूचना निर्माण, सूचना शैली, सूचना सम्प्रेषण, वाचिक भाषा, लेखक भाषा।

खण्ड-चार

जनसंचार और हिन्दी साहित्य- जनसंचार माध्यम एवं हिन्दी, जनसंचार माध्यमों से सम्बन्धित हिन्दी साहित्य, इलेक्ट्रॉनिक संदर्भ के रूप में हिन्दी का मानकीकरण - आवश्यकता, भाषा नियोजन नीति, भाषा स्थिरता, किताबी भाषा और माध्यमों की भाषा में अन्तर।

पुस्तक सूची :

1. राजभाषा हिंदी - कैलाशचन्द्र भाटिया, वाणी प्रकाशन, दिल्ली।
2. प्रशासनिक हिंदी, महेशचन्द्र गुप्त, वाणी प्रकाशन, दिल्ली।
3. भाषा और भाषाविज्ञान, डॉ. नरेश मिश्र, निर्मल प्रकाशन, दिल्ली।
4. व्यावहारिक हिंदी और स्वरूप, वाणी प्रकाशन, दिल्ली।
5. भाषा और भाषाविज्ञान, डॉ. हरिश्चंद्र वर्मा, लक्ष्मी प्रकाशन, रोहतक।
6. भाषाविज्ञान एवं मानक हिंदी, डॉ. नरेश मिश्र, अभिनव प्रकाशन, दिल्ली।
7. आधुनिक विज्ञापन - प्रेमचन्द पातंजली, वाणी प्रकाशन, दिल्ली।
8. प्रयोजनमूलक हिंदी, दंगल शाल्टे, वाणी प्रकाशन, दिल्ली।
9. कंप्यूटर प्रोग्रामिंग एंड आपरेटिंग गाइड, शशांक जौहरी, पूर्वांचल प्रकाशन, दिल्ली।
10. कंप्यूटर :सिद्धान्त और तकनीक, राजेन्द्रकुमार, पूर्वांचल प्रकाशन, दिल्ली।

11. कंप्यूटर और हिंदी, हरिमोहन, तक्षशिला प्रकाशन, दिल्ली।
12. रेडियो और पत्रकारिता, हरिमोहन, तक्षशिला प्रकाशन, दिल्ली।
13. सैद्धांतिक एवं अनुप्रयुक्त भाषाविज्ञान, डॉ. रवीन्द्रनाथ श्रीवास्तव, साहित्यसहकार, दिल्ली।
14. पत्रकारिता के सिद्धान्त – डॉ. रमेशचन्द्र त्रिपाठी, नमन प्रकाशन, दिल्ली, 2002
15. आधुनिक पत्रकारिता – डॉ. अर्जुन तिवारी, विश्वविद्यालय प्रकाशन, वाराणसी, 1984
16. हिंदी पत्रकारिता एवं जनसंचार – डॉ. ठाकुरदत्त शर्मा 'आलोक', वाणी प्रकाशन, दिल्ली, 2000
17. संचार से जनसंचार – रूपचन्द्र गौतम, श्रीनटराज प्रकाशन, दिल्ली, 2005
18. सूचना प्रौद्योगिकी और जनमाध्यम – प्रो. हरिमोहन, तक्षशिला प्रकाशन, दिल्ली, 2002
19. इलैक्ट्रॉनिक मीडिया – पी. के. आर्य, प्रतिभा प्रतिष्ठान, दिल्ली, 2006

Mapping Matrix of Course MA/HIN/4/DSC12
Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)
Table 1: CO-PO Matrix for the Course MA/HIN/4/DSC12

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	2	3	3	3	2	3	3
LO4	3	3	3	3	2	3	3	3
Average	3	2.75	3	3	2.75	2.25	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/4/DSC12

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	2	3	3
LO3	3	3	2	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3 CO-PO-PSO Mapping Matrix MA/HIN/4/DSC12

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	2	3	3
LO3	3	2	3	3	3	2	3	3	3	3	2	3	3
LO4	3	3	3	3	2	3	3	3	3	3	3	3	3
Average	3	2.75	3	3	2.75	2.25	3	3	3	3	3	3	3

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश :

1. सम्पूर्ण पाठ्यक्रम में से पांच लघु अनिवार्य प्रश्न पुछे जाएंगे। प्रत्येक प्रश्न 2 अंक का है। $2 \times 5 = 10$
- 2- निर्धारित पाठ्यक्रम में कुल चार खण्ड हैं। प्रत्येक खण्ड से दो-दो दीर्घ प्रश्न दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा। प्रत्येक प्रश्न 15 अंक का है। चतुर्थ खण्ड में निर्धारित पाठ्यक्रम से दो-दो व्याख्या भाग दिए जाएंगे परीक्षार्थी को प्रत्येक खण्ड से एक-एक व्याख्या भाग करना अनिवार्य होगा। प्रत्येक व्याख्या के लिए 5 अंक निर्धारित है। $15 \times 4 = 60$

पाठ्यक्रम का उद्देश्य (Course Objectives)

इसमें विद्यार्थी हिंदी के प्रमुख नाटकों का अध्ययन करेंगे रंगमंच सम्बन्धी व्यावहारिक ज्ञान देना।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

- 1 रंगमंच का व्यावहारिक स्तर पर अवलोकन होगा।
- 2 नाटक के माध्यम से विद्यार्थी अभिनय की बारीकियों को भी समझेंगे।
- 3 ऐतिहासिक नाटक को पढ़ते हुए विद्यार्थियों की ऐतिहासिक दृष्टि का विकास होगा।
- 4 नाटक के माध्यम से भारतीय संस्कृति का ज्ञान प्राप्त करेंगे।

खण्ड एक

रूपक से अभिप्राय एवं भेद
चन्द्रगुप्त— जयशंकर प्रसाद

खण्ड दो

नाटक से अभिप्राय व नाटक के तत्त्व
कोणार्क— जगदीशचन्द्र माथुर

खण्ड तीन

आषाढ़ का एक दिन— मोहन राकेश
रंगमंच संबंधी संकल्पना

खण्ड चार

तीनों खण्डों पर आधारित सप्रसंग व्याख्या

पुस्तक सूची—

1. हिन्दी नाटक इतिहास के सोपान— गोविन्द चातक, तक्षशिला प्रकाशन, नई दिल्ली—2002
2. समकालीन हिन्दी नाटक और रंगमंच— जयदेव तनेजा, तक्षशिला प्रकाशन, नई दिल्ली— 2002
3. हिन्दी नाटक के बदलते आयाम— नरेन्द्र नाथ त्रिपाठी, विक्रम प्रकाशन, नई दिल्ली— 1987
4. नाटककार मोहन राकेश— सुंदर लाल कथूरिया
5. भारतीय रंगमंच का विवेचनात्मक इतिहास— लक्ष्मी नारायण लाल
6. आधुनिक हिन्दी नाटक और रंगमंच, संपादक— नेमिचन्द्र जैन

Matrix of Course MA/HIN/4/DSC13

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1: CO-PO Matrix for the Course MA/HIN/4/DSC13

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	2	2	3	3	3
LO2	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	2	3
LO4	3	3	3	3	3	3	3	3
Average	3	3	3	2.5	2.5	3	2.75	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/4/DSC13

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	3	3	3
Average	3	3	3	3	3

Table 3: CO-PO-PSO Mapping Matrix MA/HIN/4/DSC13

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	2	2	3	3	3	3	3	3	3	3
LO2	3	3	3	3	3	3	3	3	3	3	3	3	3
LO3	3	3	3	2	2	3	2	3	3	3	3	3	3
LO4	3	3	3	3	3	3	3	3	3	3	3	3	3
Average	3	3	3	2.5	2.5	3	2.75	3	3	3	3	3	3

अध्यापन अवधि : 4 घंटे
समय : 3 घंटे

कुल अंक : 100
लिखित परीक्षा : 70 अंक
आंतरिक मूल्यांकन : 30 अंक

निर्देश:

1. सम्पूर्ण पाठ्यक्रम में से 5 अनिवार्य लघु प्रश्न पूछे जाएंगे। 2x5 = 10
2. निर्धारित चार खण्डों में से दो-दो आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षार्थी को प्रत्येक खण्ड में से एक-एक प्रश्न का उत्तर देना अनिवार्य है। 15x4 = 60

पाठ्यक्रम का उद्देश्य (Course Objectives)

कार्यालयी हिन्दी के सैद्धांतिक स्वरूप का ज्ञान प्रदान करना और अनुवाद विज्ञान की सैद्धांतिक जानकारी प्रदान करना ।

पाठ्यक्रम के अपेक्षित परिणाम (Course Learning Outcomes)

1. अनुवाद का सैद्धांतिक और व्यावहारिक ज्ञान।
2. अनुवाद करने की योग्यता में अभिवृद्धि।
3. कम्प्यूटर युग में मशीनी अनुवाद और अनुवाद कि विभिन्न प्रविधियों का ज्ञान होगा ।
4. कार्यालयी राजभाषा के प्रमुख प्रकार्यों की जानकारी प्राप्त करते हुए अनुवाद का व्यावहारिक ज्ञान होगा ।

खण्ड एक

1. अनुवाद का स्वरूप
2. अनुवाद के सिद्धांत
3. अनुवाद प्रविधि
4. अनुवाद की समस्याएँ

खण्ड दो

1. अनुवाद का इतिहास
2. तकनीकी शब्दावली के प्रकार एवं विशेषताएँ
3. कम्प्यूटर और अनुवाद

खण्ड तीन

हिन्दी से अंग्रेजी में अनुवाद

खण्ड चार

अंग्रेजी से हिन्दी में अनुवाद

पुस्तक सूची-

1. अनुवाद : प्रक्रिया और स्वरूप- कैलाशचन्द्र भाटिया, तक्षशिला प्रकाशन, नई दिल्ली-2004
2. अनुवाद के विविध आयाम- पूरण चन्द टण्डन व हरीश कुमार सेठी, तक्षशिला प्रकाशन, नई दिल्ली- 2005
3. अनुवाद सिद्धांत और प्रयोग- कैलाशचन्द्र भाटिया, तक्षशिला प्रकाशन, नई दिल्ली- 2008
4. अनुवाद विज्ञान- राजमणि शर्मा, वाणी प्रकाशन, नई दिल्ली- 2002
5. अनुवाद विज्ञान और सम्प्रेषण- हरिमोहन, तक्षशिला प्रकाशन, नई दिल्ली-1994
6. अनुवाद विज्ञान और आलोचना की नई भूमिका- रवीन्द्र नाथ श्रीवास्तव, केन्द्रीय हिन्दी संस्थान आगरा-1980

Mapping Matrix of Course MA/HIN/4/DSC14

Mapping of Course Outcomes to Programme Outcomes: (CO-PO Mapping Matrix)

Table 1 shows the CO-PO mapping matrix for a course (MA/HIN/4/DSC14 assuming that there are 8 POs and 4 COs.

Table 1: CO-PO Matrix for the Course MA/HIN/4/DSC14

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
LO1	3	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3
LO3	3	3	3	3	3	2	3	3
LO4	3	3	3	2	2	3	3	3
Average	3	3	3	2.75	2.75	2.50	3	3

Mapping of Course Outcomes to Programme Specific Outcomes: (CO-PSO Mapping Matrix)

Table 2: CO-PSO Matrix for the Course MA/HIN/4/DSC14

CO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	2	3	3
LO2	3	3	3	3	3
LO3	3	3	3	3	3
LO4	3	3	2	2	3
Average	3	3	2.50	2.75	3

Table 3: CO-PO-PSO Mapping Matrix MA/HIN/4/DSC14

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
LO1	3	3	3	3	3	2	3	3	3	3	2	3	3
LO2	3	3	3	3	3	2	3	3	3	3	3	3	3
LO3	3	3	3	3	3	2	3	3	3	3	3	3	3
LO4	3	3	3	2	2	3	3	3	3	3	2	2	3
Average	3	3	3	2.75	2.75	2.50	3	3	3	3	2.50	2.75	3



CHAUDHARY DEVI LAL UNIVERSITY, SIRSA

(Established by the State Legislature Act 9 of 2003)

(Through E-mail)

No. AC-II/2022/ 1290

Dated: 08-03-22

To

The Assistant Registrar,
Secrecy Branch,
CDLU, Sirsa.

Sub:

To supply the Scheme and Syllabus of PG Diploma In Yoga.

Please refer to you letter No./Secy/22/FN-75/497 dated 03.02.2022 on the subject cited above.

The scheme and syllabus of P.G. Diploma In Yoga for 1st and 2nd semester duly approved by the Vice Chancellor is sent through email.

08/03/2022
Deputy Registrar (Academic)
For D.A.A.

Endst. No./Acad./AC-II/2022/ 1291 Dated: 08-03-22

A copy of the above is forwarded (through-email) to the following for information and further necessary action:

1. The Chairperson, Department of Physical Education, CDLU, Sirsa with the request to start the process to revise the curriculum and seek the expert guidance while preparing the curriculum as the University intends to revise the curriculum as per highest standards and want to introduce PG Diploma at CDLU campus also in 3rd phase.

08/03/22
Assistant Registrar (Academic)

CHAUHDARY DEVI LAL UNIVERISTY, SIRSA

SCHEME OF EXAMINATION FOR PG DIPLOMA IN YOGA

SESSION-2021-22

Course	Nomenclature	Max. Marks		
		Total	Theory	Internal Assessment
Semester-1				
PGDYSE-101	Fundamental of yoga 53801	100	70	30
PGDYSE-102	Hath Yoga 53802	100	70	30
PGDYSE-103	Shrimadbhagvad Geeta & Samkhyakarika 53803	100	70	30
PGDYSE-104	Human Anatomy and Physiology 53804	100	70	30
PGDYSE-151	Practical -1	100	70	30
PGDYSE-152	Practical -2 (Lesson Plan)	100	70	30
Semester-2				
PGDYSE-201	Patanjal Yoga Sutra 53811	100	70	30
PGDYSE-202	Yoga Therapy 53812	100	70	30
PGDYSE-203	Naturopathy 53813	100	70	30
PGDYSE-204	Alternative Therapy 53814	100	70	30
PGDYSE-251	Practical -1	100	70	30
PGDYSE-252	Practical -2	100	70	30

Jeet Singh

Monika
Arora