

MANOHAR MEMORIAL (PG) COLLEGE FATEHABAD

PROGRAMME OUTCOMES, PROGRAMME SPECIFIC OUTCOMES AND COURSE OUTCOMES

B.Sc. (Non Medical, Medical and Computer Science)

Program Outcomes (PO) for Under Graduate Programmes in the Faculty of Sciences

PO1	Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during course of study
PO2	Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with society at large
PO3	Problem Solving	Capability of applying knowledge to solve scientific and other problems
PO4	Individual and Team Work	Capable to learn and work effectively as an individual, and as a member or leader in diverse teams, multidisciplinary settings
PO5	Investigation of Problems	Ability of critical thinking, analytical reasoning and research-based knowledge including design of experiments, analysis and interpretation of data to provide conclusions
PO6	Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices
PO7	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
PO8	Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learning activities throughout life
PO9	Environment and Sustainability	Ability to design and develop modern systems which are environmentally sensitive and to understand the importance of sustainable development
PO10	Ethics	Apply ethical principles and professional responsibilities in scientific practices

PROGRAMME SPECIFIC OUTCOMES B.Sc. NON MEDICAL

PSO1 Students will acquire good knowledge about the fundamentals and applications of mathematical and scientific theories.

PSO2 Students will know inter disciplinary approach between all branches of Science and Technology as Chemistry, Physics and Mathematics.

PSO3 Students will become familiar with the different branches of Chemical Sciences like physical, organic, inorganic and environmental.

PSO4 This will develop analytical skills and problem-solving skills requiring application of chemical principles and mathematical techniques.

PSO5 They will able to demonstrate and solve an understanding of major concepts in all disciplines of physics

PROGRAMME SPECIFIC OUTCOMES B.Sc. MEDICAL

PSO1 Students will become familiar with the different branches of Chemical Sciences like physical, organic, inorganic and environmental.

PSO2 Students will able to demonstrate, solve and an understanding of major concepts in all disciplines of Zoology. Solve the problem and also think methodically, independently and draw a logical conclusion.

PSO3 Students will understand the evolution, history of phylum. PO-4. Create an awareness of the impact of Zoology on the environment, society, and development outside the scientific community

PSO4 Student can describe morphological & reproductive characters of plant and also identified different plant families and classification.

PSO5 They know economic importance of various plant products & artificial methods of plant propagation and can use modern Botanical techniques and decent equipments.

PROGRAMME SPECIFIC OUTCOMES B.Sc. COMPUTER SCIENCE

PSO 1: Students will demonstrate understanding of the principles and working of the hardware and software aspects of computer systems.

PSO-2 Students will design, implements, test, and evaluate a computer system, component, or algorithm to meet desired needs and to solve a computational problem.

PSO-3 This will enhance skills and adapt new computing technologies for attaining professional excellence and carrying research.

PSO4 Students will acquire good knowledge about the fundamentals and applications of mathematical and scientific theories.

PSO5 They will able to demonstrate and solve an understanding of major concepts in all disciplines of physics

SUBJECT WISE COURSE OUTCOMES

SUBJECT: MATHEMATICS

1st Semester Paper-I (BM 111) Algebra

Course Outcomes:

CO1: To learn multiplication and basic operation of matrices and congruence relations and learn basic matrix algebra and method to find solutions to system of linear equations. Also to learn eigen values and eigenvectors of matrix

CO2: To learn operations on polynomials, finding GCD of two polynomials and roots of polynomials.

1st Semester Paper-II (BM 112) Calculus

Course Outcomes:

CO1: To study functions in detail which is a fundamental structure in all sciences, and to be able to check continuity of a function.

CO2: To apply notion of derivative in mean value theorem and also in higher order derivatives which arise in all applied sciences.

1st Semester Paper-III (BM 113) Solid Geometry

Course Outcomes:

CO1: To study two dimensional and three dimensional geometry in details which are fundamental structure in all sciences.

CO2: In this course, students learn the properties of sphere, cone and cylinder in detail.

2nd Semester Paper-I (BM 121) Number Theory and Trigonometry

Course Outcomes:

CO1: In this course, students learn the properties of the set of integers in detail and they can find integer solutions to the system of equations which arises in real life problems.

CO2: Students can learn about advanced properties of Trigonometric functions, DeMoivre Theorem, Hyperbolic functions.

2nd Semester Paper-II (BM 122) Ordinary Differential Equations

Course Outcomes:

CO1: To be able to solve first degree differential equations, Langrange's method.

CO2: To find solutions of linear differential equations of higher order.

2nd Semester Paper-III (BM 123) Vector Calculus

Course Outcomes:

CO1: To learn scalar and vector product of multiple vectors.

CO2: Learn about curvilinear coordinates and vector integrations, Stokes theorem, Gauss theorem.

3rd Semester Paper-I (BM 231) Advanced Calculus

Course Outcomes:

CO1: To study functions of several variables, continuity and Differentiability of multivariate functions.

CO2: To study the notion of differential geometry, curvature and torsion.

3rd Semester Paper-II (BM 232) Partial Differential Equations

Course Outcomes:

CO1: Introduction of first order Partial Differential Equations, Charpit method.

CO2: Learn methods to solve first and higher order Partial Differential Equations.

3rd Semester Paper III (BM 233) Statics

Course Outcomes:

CO1: To learn about different forces and equilibrium of system, friction, center of gravity of bodies.

CO2: To learn concept to virtual work, central axis and null planes.

4th Semester Paper (BM 241) Sequence and Series

Course Outcomes:

CO1: to learn about topology of real numbers, open and closed sets.

CO2: To learn about real sequences, bounded sequence, infinite series, alternative series and their convergence

4th Semester Paper II (BM 242) Special Functions and Integral Transforms

Course Outcomes:

- CO1:** To learn the evaluation of Laplace transform of different types of functions, their derivatives and integrations.
- CO2:** To learn the evaluation of Inverse Laplace transform of functions, their derivatives and integrations, and to learn application of Convolution theorem.

4th Semester Paper-III (BM 243) Programming in C and Numerical Methods

Course Outcomes:

- CO1:** Students will learn about basic structure of C language, input and output functions.
- CO2:** They will learn about numerical solution of algebraic and transcendental equations.

5th Semester Paper I (BM 351) Real Analysis

Course Outcomes:

- CO1:** To learn basic techniques and examples in analysis to be well prepared for courses like Topology, Measure theory and Functional analysis.
- CO2:** To study various types of sets and relations, and concept of countable and uncountable..

5th Semester Paper II (BM352) Groups and Rings

Course Outcomes:

- CO1:** To learn fundamental properties and mathematical tools such as closure, identity, inverse and generators.
- CO2:** To study algebraic structure 'Groups' in detail which is useful in study of Rings, Modules, Algebraic topology, Analysis.

5th Semester Paper-III (BM353) Numerical Analysis

Course Outcomes:

- CO1:** To learn to apply the various numerical techniques for solving real life problems.
- CO2:** The problems which cannot be solved by usual formulae and methods can be solved approximately by using numerical techniques.

6th Semester Paper-I (BM 361) Real and Complex Analysis

Course Outcomes:

- CO1:** To learn basic algebraic properties of complex numbers and limit and continuity of complex functions.
- CO2:** To learn analytic functions and the C-R equations as its necessary and sufficient condition.

6th Semester Paper II (BM 362) Linear Algebra

Course Outcomes:

- CO1:** To learn fundamental properties and mathematical tools such as closure, identity, inverse and generators in vector space.

CO2: To study Linear Transformations in detail which is useful in study of Rings, Modules, algebraic topology, Inner product spaces and Gram-Schmidt process of orthogonalization. .

6th Semester Paper- III (BM 363) Dynamics

Course Outcomes:

CO1: To learn about motion along a plane curve, simple harmonic motion, relative motion

CO2: To get knowledge about Central orbits, Kepler's laws of planetary motion

SUBJECT: PHYSICS

1st Semester Paper-I

Course Outcomes:

CO1: This subject will be an introduction to the pursuit of physics. Students will get to know the importance to concepts such as generalized coordinates & constrained motion. They'll be able to state the conservation principle involving momentum angular momentum & energy.

CO2: From this course students will be able to differentiate between different types of magnetic materials & their properties.

1st Semester Paper-II

Course Outcomes: After completing this course, students will be able to develop a basis for future learning & work experience in field of physics.

2nd Semester Paper-I

Course Outcomes:

CO1: Kinetic theory of gases: Students shall be familiar with the fundamental principles of general theory of relativity. They'll get to know relativity concepts like length contraction & dilation.

CO2: Students will be able to know about significance of electrical components & its working principle & would be able to analyse topically the relationship between various physical quantities.

2nd Semester Paper-II

Course Outcomes:

Students will be able to develop analytical thinking that makes them versatile & adaptable to do work in technical field.

3rd Semester Paper-I

Course Outcomes:

CO1: Students will develop basic understanding of Fortran programming language, its stages, compilation process & fundamentals of convertibility from one number system to another.

CO2: Student will get knowledge of principal & theories about behavior of light & its related phenomena in optics.

3rd Semester Paper-II

Course Outcomes:

Students will get to know about different trades of physics like classical, magnetisms, quantum and will be able to apply this knowledge to analyze a variety of physical phenomenon.

4th Semester Paper I

Course Outcomes:

CO1: Statistical Mechanics: Students would able to distinguish between 3 types of statistics. They'll be able to distribute diptyches in different cells by knowing their possible move of microstate & microstate.

CO2: Students will understand thenomenes like refraction, diffraction futelkence etc. They'll be able to know about resoliring power of different instruments in options.

4th Semester Paper II

Course Outcomes:

CO1: Students will be able to solve numerical problems by learning a variety of experimental & computational techniques.

5th Semester Paper I

Course Outcomes:

CO1: Students will get basic knowledge for their higher studies & research in field of science and technology. Students will be able to conduct independent research & can work in a technical position.

CO2: Student will get to know about the origin of elementary theories starting from their hypothesis to nuclear properties & their energy. They'll understand various type of nuclear reactions, their q values.

5th Semester Paper II

Course Outcomes:

Students will get basic knowledge for their higher studies & research in field of science and technology. Students will be able to conduct independent research & can work in a technical position.

6th Semester Paper-I

Course Outcomes:

CO1: Solid state physics: Students will able to explain about crystal planes, reciprocal lattice, concepts of Brillion zones & diffraction of X-Rays by crystalline materials.

CO2: Students will be able to describe theories exploring the structure of atoms & the origin of observed spectra & its dependence on externally applied electric & Magnetic field.

6th Semester Paper-II

Course Outcomes:

Students will be able to understand how major advancements are taking place in physics or how major concepts are developing & changing over times.

SUBJECT: CHEMISTRY

1st Semester Paper-I (CHEM-101) Inorganic Chemistry-I

Course Outcomes:

CO1: States the postulates of quantum mechanics and Schrodinger equation to explain the structure of hydrogen atom.

CO2: To study and explain the Radial and angular nodes and their significance in describing shapes of s,p and d orbitals.

1st Semester Paper-II (CHEM-102) Physical Chemistry-I

Course Outcomes:

CO1: To learn about Role of temperature and pressure to establish the state of gases and describe the Concept of critical temperature, pressure and volume of real gases

CO2: To understand the Maxwell distribution law and various parameters associated with collisions ideal gas molecules

1st Semester Paper-III (CHEM-103) Organic Chemistry-I

Course Outcomes:

CO1: Have sound knowledge of the basic organic chemistry like electron displacement effects with suitable examples.

CO2: Get information about the types of structural isomerism and stereoisomers, optical isomerism, and different nomenclature like D/L, R/S, cis/trans, E/Z etc. of various organic compounds. Also gain knowledge of different conformations of cyclohexane and get knowledge of wedge & dash, Newman projections etc.

2nd Semester Paper-IV (CHEM-201) Inorganic Chemistry-II

Course Outcomes:

CO1: To know the concept and able to explain types and effect of hydrogen bonding and van der waals forces on properties of substances.

CO2: To learn about the various theories of metallic bonding with reference to conductors, insulators and semiconductors and their applications.

2nd Semester Paper-V (CHEM-202) Physical Chemistry-II

Course Outcomes:

- CO1:** To have the knowledge about the concepts of rates of chemical reactions and its applications in derivation of reactions of various orders and half-life
- CO2:** To be able to explain about the physical and magnetic properties associated with various molecular substances

2nd Semester Paper-VI (CHEM-203) Organic Chemistry-II

Course Outcomes:

- CO1:** Know about Huckel's rule of aromaticity and various methods of preparation of aromatic Hydrocarbons.
- CO2:** Get knowledge about the mechanism of S_N1 and S_N2 reactions and other various chemical reactions of aryl and aryl halides.

1st Year Paper-VII (CHEM-204) (Chemistry Practical-I)

Course Outcomes:

- CO1:** To gain knowledge about Preparation of standard solutions used in the lab.
- CO2:** Know about Redox, iodometric titrations and complexometric titrations.
- CO3:** To study the concept of surface tension and its determination by various methods.
- CO4:** To know about viscosity and its measurements by using Ostwald's viscometer.

3rd Semester Paper-VIII (CHEM-301) Inorganic Chemistry-III

Course Outcomes:

- CO1:** Have good knowledge about d-block elements particularly of transition elements.
- CO2:** To study the comparison between 3d elements with 4d and 5d elements with reference to ionic radii, oxidation state, magnetic properties and spectral properties some compounds of transition elements.

3rd Semester Paper-IX (CHEM-302) Physical Chemistry-III

Course Outcomes:

- CO1:** To know about the laws and concepts of chemical thermodynamics and their applications in thermochemical calculations.
- CO2:** To have knowledge about electrolytic concentration cells with and without transference and their EMF calculation, applications of the concept to determine liquid junction potential, pH determination using potentiometry and potentiometric titrations.

3rd Semester Paper-X (CHEM-303) Organic Chemistry-III

Course Outcomes:

- CO1:** Know about the preparation of aliphatic, aromatic aldehydes and ketones and various important name reactions of aldehydes and ketones.

CO2: Get knowledge about the acidity of α -hydrogens of diethyl malonate, ethyl acetoacetate and the synthesis and Keto-enol tautomerism of ethyl acetoacetate.

4th Semester Paper-XI (CHEM-401) Inorganic Chemistry-IV

Course Outcomes:

CO1: To explain the factors responsible for the stability of coordination complexes and various substitution reactions of square planar complexes with reference to trans effect.

CO2: To study the magnetic properties of transition metal complexes and various types of magnetic materials and their magnetic susceptibility.

4th Semester Paper XII (CHEM-402) Physical Chemistry-IV

Course Outcomes:

CO1: To know about dual characteristic of matter and extend this fact to obtain postulates of quantum mechanics and quantum-mechanical operators, apply Schrödinger equation to determine the physical observables for particle in a box.

CO2: To understand the need of statistical mechanics and Maxwell-Boltzmann distribution, partition function and its significance.

4th Semester Paper-XIII (CHEM-403) Organic Chemistry-IV

Course Outcomes:

CO1: Get knowledge aromatic behaviour and basicity of simple heterocyclic compounds.

CO2: Knowledge about condensed five and six-membered heterocyclic rings, basicity of pyridine, piperidine and pyrrole and the preparation and reactions of indole, quinoline and isoquinoline.

2nd Year Paper-XIV (CHEM-404) (Chemistry Practical -II)

Course Outcomes:

CO1: To verify the Beer's Lambert law using potassium permanganate and potassium dichromate and also quantitation of these analytes.

CO2: To prepare simple coordination complexes viz. Cuprous chloride, tetra-ammine cupric sulphate, chrome alum, potassium trioxalatochromate(III) and Nickel Hexamine chloride.

5th Semester Paper-XV (CHEM-501) Inorganic Chemistry-V

Course Outcomes:

CO1: To know about basic concepts of bioinorganic chemistry with reference to metal ions present in biological systems.

CO2: To study the biochemistry of dioxygen carriers especially hemoglobin and myoglobin.

5th Semester Paper XVI (CHEM-502) Physical Chemistry-V

Course Outcomes:

CO1: To have sound knowledge about the concepts of dual nature of matter and its applications

to obtain Schrödinger wave equation and angular momentum.

CO2: To solve Schrödinger equation for a particle present in various systems viz., two and three-dimensional boxes, harmonic oscillator and rigid rotator..

5th Semester Paper-XVII (CHEM-503) Organic Chemistry-V

Course Outcomes:

CO1: Have knowledge of various absorption laws (Beer-Lambert law), molar absorptivity, analysis UV spectra and application of UV spectroscopy in structure elucidation.

CO2: Able To describe absorptions of various functional groups and applications of IR spectroscopy.

6th Semester Paper-XVIII (CHEM-601) Inorganic Chemistry-VI

Course Outcomes:

CO1: To know about principles and various types of chromatography techniques

CO2: To have sound knowledge of the concept of ESR spectra of various molecules.

6th Semester Paper-XIX (CHEM-602) Physical Chemistry-VI

Course Outcomes:

CO1: To have knowledge about solutions and colligative properties and their application in determining molar mass of solute.

CO2: To have good knowledge about fundamental concepts of phase equilibrium and their applications in studying one and two-component systems including eutectics.

6th Semester Paper-XX (CHEM-603) Organic Chemistry-VI

Course Outcomes:

CO1: To have knowledge about classification, structures and important reactions of carbohydrates and amino acids.

CO2: Have sound knowledge about Structural and functional classification of proteins.

3rd Year Paper-XXI (CHEM-604) (Chemistry Practical- III)

Course Outcomes:

CO1: To analyze the given inorganic mixture qualitatively for various cations and anions present in them.

CO2: Able to determine R_f values.

CO3: Identification of organic compounds.

CO4: Able to perform thin layer chromatography to separate various components present in the Mixture, determination of hardness of water.

SUBJECT: ZOOLOGY

1st Semester Paper-I

Course Outcomes:

After completing this course students will be able to describe the general characteristics, classification, reproduction and economic importance of phylum Protozoa, Porifera, Coelenterate, Platyhelminthes and Aschelminthes.

1st Semester Paper-II

Course Outcomes:

After completing this course students will be able to identify the parasitic diseases and their causal organisms.

2nd Semester Paper-I

Course Outcomes:

After completing this course students will be able to discuss the structure of animal cell and its organelles, analyze the morphology of chromosome organization and explain the cell-division and its significance.

2nd Semester Paper-II

Course Outcomes:

After completing this course students will be able to describe the general characteristics, classification, reproduction and economic importance of phylum Annelida, arthropoda, mollusca and echinodermata.

3rd Semester Paper-I

Course Outcomes:

After completing this course students will be able to describe biodiversity and economic importance of insects

3rd Semester Paper-II

Course Outcomes:

After completing this course students will be able to Define the basic terms in genetics, discuss the linkage groups, gene frequency and explain the concept of mutation.

4th Semester Paper I

Course Outcomes:

After completing this course students will be able to classify the chordates along with studies on various physiological functions and comparative anatomy of organs of chordate with example.

4th Semester Paper II

Course Outcomes:

After completing this course students will be able to define the basic terms in biochemistry, explain the structure, functions and reactions of the various biomolecules.

5th Semester Paper I

Course Outcomes:

After completing this course students will be able to describe the general characteristics, classification, structure, functions and biology of amphibians, reptiles, birds and mammals.

5th Semester Paper II**Course Outcomes:**

After completing this course students will be able to explain the physiological processes in mammals, the anatomy of various systems and the reproductive cycles with hormonal control.

6th Semester Paper-I**Course Outcomes:**

After completing this course students will be able to learn the different aspects of developmental biology and also gain knowledge about human evolution and various concepts about the origin of species.

6th Semester Paper II**Course Outcomes:**

After completing these course students will be able to learn details about taxonomy and biology of fishes and various aquaculture techniques. Discuss the life cycle and importance of major parasites.

SUBJECT: BOTANY**1st Semester Paper-I****Course Outcomes:**

After completing this course students will be able to describe the general characteristics, classification, reproduction and economic importance of Virus, Bacteria, Mycoplasma, Cyanobacteria, Algae, Fungi and Lichens.

1st Semester Paper-II**Course Outcomes:**

After completing this course students will be able to discuss the structure of plant cell and its organelles, analyze the morphology of chromosome organization and explain the cell-division and its significance.

2nd Semester Paper-I**Course Outcomes:**

After completing this course students will be able to General characteristics, the classification, morphology, anatomy, life cycle & economic importance of Bryophytes and Pteridophytes.

2nd Semester Paper-II**Course Outcomes:**

After completing this course students will be able to Genetic organization of an organism, its replication, expression and concept of mutation.

3rd Semester Paper-I

Course Outcomes:

After completing these course students will able to Evolution, general characteristics, classification, morphology, anatomy and reproduction of Gymnosperms

3rd Semester Paper-II

Course Outcomes:

After completing these course students will able to Differentiation of tissue system and their organizations in root, stem and leaf

4th Semester Paper I

Course Outcomes:

After completing this course students will able to Origin, classification and diversity of Angiosperms from Dicots to monocots, .Principles and rules of botanical nomenclature

4th Semester Paper II

Course Outcomes:

After completing this course, students will able to Morphology and modification of plants, Various parts of flower

5th Semester Paper I

Course Outcomes:

After completing these course students will able to understand plant water relation and role of mineral nutrients, summarize the cycle of respiration and photosynthesis.

5th Semester Paper II

Course Outcomes:

After completing these course students will able to Define and explain about ecology branches and its significance, summarize the biotic and abiotic factors & describe the types of ecosystem.

6th Semester Paper-I

Course Outcomes:

After completing this course students will able to The basic of Enzymes and Origin, distribution, botanical description and brief idea of cultivation and economic importance of various plants

6th Semester Paper II

Course Outcomes:

After completing this course students will able to technique of plant tissue culture and its application, the tools and techniques in genetic-engineering.

SUBJECT: COMPUTER SCIENCE

1st Semester Paper-I

Course Outcomes:

After completing this course, students are going to be able to learning the essential of programming constructs they will easily switch to the other language in future ready to work with textual information characters and strings

1st Semester Paper-II

Course Outcomes:

After completing this course, students are going to be able to understand and examine the structure of varied number systems and its application in digital design. The power to know, analyze and style various combinational circuits.

2nd Semester Paper-I

Course Outcomes:

After completing this course, students are going to be able to create, polish, and share documents in Word; to research and visualize data in Excel; to make, collaborate, and effectively present ideas in point .

2nd Semester Paper-II

Course Outcomes:

After completing this course, students are going to be able to analyze a number of the planning issues in terms of speed, technology, cost, performance. Use appropriate tools to style verify and test the CPU architecture. The power to know, analyze and style various sequential circuits.

3rd Semester Paper-I

Course Outcomes:

After completing this course, students are going to be able to describe how arrays, records, linked structures, stacks, queues, trees, and graphs are represented in memory and employed by algorithms

3rd Semester Paper-II

Course Outcomes:

After completing this course, students are going to be ready to develop and evaluate system requirements. Work effectively during a team environment. Explain the necessity for and value of a formalized step-by-step approach to the analysis, design, and implementation of computer information systems.

4th Semester Paper I

Course Outcomes:

After completing this course, students are going to be able to understand the essential components of a computer operating system, and therefore the interactions among the varied components. They can understand the policies for scheduling, deadlocks, memory management and page replacement policies for dynamic memory management.

4th Semester Paper II

Course Outcomes:

After completing this course, students are going to be able to:

- Students list the visual programming concepts.
- Distinguish and compose events and methods.
- They can develop basic desktop application. e.g. calculator

5th Semester Paper I

Course Outcomes:

After completing this course, students are going to be ready to understand the concept of classes, objects, data-abstraction, polymorphism, data-hiding and inheritance. They also learn how to handle the exception in the program during run time program.

5th Semester Paper II

Course Outcomes:

After completing this course, students are going to be able to:

Find basic concepts of knowledge and files, DBMS functions and components.

Develop an honest database design and normalization techniques to normalize a database and style databases for various applications

6th Semester Paper-I

Course Outcomes:

After completing this course, students are going to be able to develop an understanding of various components of computer networks, various protocols, modern technologies and their applications

6th Semester Paper II

Course Outcomes:

After completing this course, students are going to be able to:

Retrieve update, delete, alter, drop, grant & truncate a large amount of record from a database. By learning SQL they can easily create a database and manage the data. By learning the RDBMS they can process the large amount of data.

PROGRAM AND COURSE OUTCOMES

B. Com. (General)

Programme outcomes:-

To Provide well versed and trained human resource to meet the requirements of the industry in the field like MNC's, Accounting, Taxation, Banking, Insurance and stock marketing as well as research. The students will be ready for employment in functional areas like accounting, taxation, banking, insurance and corporate law. An attitude for working effectively and efficiently in a business environment is developed. Learners will gain knowledge of various disciplines of commerce, business, accounting, economics, and finance, auditing and marketing

Programme Specific outcome:-

After successful completion of B.Com degree a student should be well acquainted with knowledge and set of skills to meet the challenges of industry with an ease. Understanding and applying mathematical tools and techniques for research in field of commerce Students also acquire skills to work as tax consultant, audit assistant and other financial supporting services. Students have choices to pursue professional courses such as CA, M.COM, MBA, CMA, ICWA, CS, etc Students are able to play roles of businessmen, entrepreneur, managers, consultant, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making

Course Outcomes:-

B.Com 1 st Semester	
BC-1.1English	On successful completion of this subject, the learners would acquire the knowledge of grammar, oral skills, reading, writing and study skills.
BC-1.2Financial Accounting	The students will be capable of understanding and preparation of final accounts of companies and the relevant and the relevant accounting standards.
BC-1.3Business law	To introduce the students to basic legal terms and their usage in business.
BC-1.4Micro Economics	On successful completion of this subject would give students an insight into the dynamics of microeconomics.
BC-1.5Business mathematics	To have a knowledge of Elementary Mathematics, basics of integration and its uses in the areas of mathematics.

B.Com 2nd Semester	
BC-2.1 Proficiency in english	The students would be able to understand the concepts of reading and writing skills, basic grammar and used it in relation to business communication.
BC-2.2 Corporate Accounting	To enable the students to understand the concept company sources of finance, procedure of raising finance and final accounts.
BC-2.3 Corporate law	The students shall become aware about current laws relating to Company.
BC-2.4 Macro economics	On successful completion of this subject would give students an insight into the dynamics of macroeconomics.
BC-2.5 Introduction to Comp. App.	To equip the students with basic knowledge of use of technology in office tools. To equip the students about the network structure and protocols.
BC-2.6 Commerce practical and viva voce	To judge the overall practical and theoretical subject knowledge of students by external examiner.
BC-2.7 EVS	The students shall become aware about basic concepts of environments as well as current changes in environmental issues.
B.Com 3rd Semester	
BC-301 Corporate Accounting I	On successful completion of this subject, the learners would acquire the knowledge of issue of shares and debenture, final accounting of companies etc.
BC-302 Business Statistics-I	The students shall become aware about basics of statistics as well as methods to analysis of univariate and bivariate data.
BC-303 Company law	The students shall become aware about current laws relating to Corporate world.
BC-304 Principle of Marketing I	The students shall become aware about basics of marketing.
BC-305 Business law –I	The students shall become aware about legislative framework governing business world as well as aware about current laws relating to business world.

BC-306(ii)Advertising-I	On successful completion of this subject, the learner understand the role of advertising for the success of brands and its importance within the marketing function of a company as well as to understand actual execution of ad plan.
B.Com 4th Semester	
BC-401Corporate Accounting-II	On successful completion of this subject, the learners would acquire the knowledge of accounts of holding company, banking company, insurance company etc.
BC-402Advanced Statistics	The students shall become aware about different test like Z-test, T- test, Chi- square test etc.
BC-403Auditing	After successful completion of the course, students should be in a position to understand the fundamental nature of auditing and its implications on the society.
BC-404Investment Management	Students will be able to use time value of money methodology as well as able to determine the cost of capital.
BC-405Business Law-II	The students shall become aware about current laws relating to business world.
BC-406(ii)Management of Sales force-II	After successful completion of the course, students should be in a position to understand effective sales compensation plan, identify the key factors in establishing and maintain high morale in the sales force as well as know the distinction between the skills required for selling and sales management.
B.Com 5th Semester	
BC-501Management Accounting	Understanding application of practice tools and methods in management accounting. It will help to recognize commonly used financial statements, their components and how information from business transactions flows into these statements.
BC-502Entrepreneurship Development	After successful completion of the course, students should be in a position to understand how entrepreneurship and innovation minors will be able to sell themselves and their ideas as well as will develop and cultivate endurance.
BC-503Income tax-I	After successful completion of the course, students should be in a position to understand basic provisions of direct tax laws and its

	interpretations. Computation procedure of taxable income and filing of return.
BC-504 Cost Accounting	Students will understand cost classification of cost, cost centre, cost per unit and preparation of actual and estimated cost sheet.
BC-505 IFS	After successful completion of the course, students should be in a position to understand the Indian financial system and its functioning.
BC-506(iii) Service Marketing	After successful completion of the course, students should be in a position to understand the difficulties of marketing service products and on the differences with marketing goods.
B.Com 6th Semester	
BC-601 Financial Management	The students will be capable of applying and handling the accounting treatment of partnership accounting in relation to amalgamation as well conversion of firm into a company.
BC-602 Business Policy and Strategic Management	After successful completion of the course, students should be in a position to understand the major theories, background work, concepts and research output in the field of strategic management.
BC-603 Income- Tax-II	After successful completion of the subject, students should be in a position to understand basic provisions of Assessment of individual, HUF and Company as well as penalties provisions.
BC-604 Accounting and Reporting Standards	After successful completion of the course, students should be in a position to understand the international financial reporting stands and their application to the companies who use them.
BC-605 Disaster Management	After successful completion of the course, students should be in a position to understand the basic conceptual understanding of disasters and its relationship with development as well as to gain understand approaches of DRR and the relationship between vulnerability, disasters, disaster prevention and risk reduction.
BC-606(iii) Marketing Research	After successful completion of the course, students should be in a position to understand the basics concepts related to marketing research, research process and interpret development of marketing research.