# R.S.D. COLLEGE

**FEROZEPUR CITY (152002)**

# Programme Outcomes (POs)

**and**

# Course Outcomes (COs)

Session 2020-2021

# R.S.D. COLLEGE

**FEROZEPUR CITY (152002)**

## FACULTY OF SCIENCES

# Programme Outcomes (POs)

**and**

# Course Outcomes (COs)

# DEPARTMENT OF PHYSICS

## Course Outcomes of B.Sc. (physics)

| Course | Outcomes<br>After completion of these course, students should be able to; |
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| **SEMESTER-I** | |
| **Paper: A (Mechanics-I)** | CO 1: Students will learn about different coordinate systems: Cartesian and spherical polar Coordinate systems and their practical applications to find various physical quantities.<br>CO 2: Students will know how to reduce a two body problem into one body problem.<br>CO 3: Students will be able to understand motion of a body under central forces.<br>CO 4: Students will understand elastic collisions in lab and C.M systems and Rutherford Scattering. |
| **Paper: B (Vibrations and Waves-I)**. | CO 1: Students will learn about the simple Harmonic Motion, free, damped and forced oscillators.<br>CO 2: Students will understand the concept of Coupled oscillators. |
| **Paper:C(Electricityand Magnetism-I)** | CO 1: Students will learn about the basic ideas of vector calculus and their physical significance.<br>CO 2: Students will understand the concept of Electric field and potential difference due to different<br>types of distribution of charges.<br>CO 3: Students will know about the Polarization , Dielectric materials. |
| **SEMESTER-II** | |
| **Paper: A (Mechanics-II)** | CO 1: Students will become familiar with the concept of inertial and non-inertial frames.<br>CO 2: Students will appreciate the concept of precession and its applications as elementary gyroscope.<br>CO 3: Students will be able to appreciate the effect of non-inertial frames in natural phenomenon e.g. variation of acceleration due to gravity with latitude, coriolis force and its applications.<br>CO 4: Students will be able to understand the special theory of relativity, Michelson Morley Experiment.<br>CO 5: Further, they will have an idea about the concept of Minkowski space |

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| | and four vector formulism. |
| **Paper:B (Vibration sand Waves-II)**. | CO 1: They will learn about the concept of impedance matching for propagation of wave through<br>different media.<br>CO 2: Reflection and transmission of EM waves at a boundary of two dielectric media for normal and oblique incidence. Reflection of EM waves from the surface of a conductor at normal incidence. |
| **Paper:C(Electricityand Magnetism-II)** | CO 1: Students will learn about magnetic properties of the material and their behaviour in the magnetic field.<br>CO2: They will learn about biot Savart's Law and its applications, Ampere'sCircuital law and its applications, Hall effect and its applications.<br>CO3: Students will be able to understand the Self inductance, mutual inductance and reciprocity theorem.<br>CO 4: Students will understand about coupling of electrical circuits and their basic concepts.<br>CO 5: Students will know about the fundamentals of E.M Waves and response of different media to E.M Waves.<br>CO 6: Students will understand the concept of magnetic field and potential difference due to different<br>types of distribution of charges. |
| **SEMESTER-III** | |
| **Paper: A (Statistical and Thermodynamical Physics-I)** | CO 1: Students will gain knowledge about the basic laws of statistical physics and its scope.<br>CO 2: Concept of microstate, macrostate and Phase space will be introducedto the students.<br>CO 3: They will learn about the basic approaches of Maxwell Boltzmann, Bose Einstein and Fermi<br>Dirac statistics. |
| **Paper:B ( Optics -I)** | CO 1: Students will learn about diffraction, interference of light by division of amplitude and wave front.<br>CO 2: Students will study the applications of interference of light in non-reflecting thin films and<br>optical devices. |

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| | CO 3: Concept of polarization and methods to polarize light will be introduced to them.<br>CO 4: They will learn about construction and application of Nicol prism, Quarter and Half wave<br>plate. |
| **Paper:C (**Quantum Mechanics-I**)** | CO 1: Students will learn about the formalism of Wave mechanics, Normalization and Probability<br>interpretation of wave function.<br>CO 2: They will study about the concept of wave particle duality.<br>CO 3: The concept of Uncertainty Principle and its applications will be introduced to the students.<br>CO 4: Students will be introduced to operator formalism and fundamental postulates of wave<br>mechanics.<br>CO 5: Students will study about Schrodinger equation for free as well for particle subjected to<br>forces. Moreover, they will learn to apply Schrodinger equation to various problems of<br>Physics.<br>CO 6: Students will gain knowledge about X rays, different methods of production of X rays and<br>their interaction with material. |
| **SEMESTER-IV** | |
| **Paper:A(Statistical andThermodynamical Physics-II)** | CO 1: Students will learn about the concept of entropy and its applications.<br>CO 2: Students will study the carnot cycle , Joule-Thomson effect, Maxwell's thermodynamical relations and applications. |
| **Paper –B (Optics-II)** | CO1: Students will understand the fundamentals of Laser. They will be given knowledge about the<br>basic condition required for the laser action.<br>CO 2: They will learn about the principle, Construction and working of different lasers: Ruby laser,<br>Nd:YAG laser, He-Ne and Carbon dioxide laser. Further, they will study about the practical<br>applications of lasers. Concept of Holography will be introduced to them.<br>CO3: Students will understand the Optical fibres , Optical fibre based communication system and their Medical applications |
| **Paper:C (Quantum Mechanics-II)** | CO 1: Students will understand the one electron atomic spectra, concept of Zeeman effect, Spin |

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| | orbit coupling, Lande's-g factor will be introduced to them.<br>CO 2: Students will study about the spectra of many electron systems e.g. of Helium and Alkaline Earth Spectra. |
| **SEMESTER-V** | |
| **Paper:A( CondensedMatter Physics-I)** | CO 1: Students will learn about the basics of crystal structure and symmetries operation in two and<br>three dimensional crystals.<br>CO 2: Experimental methods for crystal structure studies will be introduced to the students.<br>CO 3: Students will be able to understand various reciprocal lattice, construction of Brillouin Zone<br>in two and three dimensions. |
| **Paper:B(Electronics-I)** | CO 1: Students will study about the diodes and its applications like rectification,clipping,switch<br>CO 2: Students will learn about transistors ,feedback in them and applications such as amplifiers,oscillators. |
| **Paper: C (Nuclear Physics-I)** | CO 1: Students will learn about the constituents of nucleus and various properties of nucleus.<br>CO 2: They will be explained different Nuclear models- Liquid drop model and shell model.<br>CO 3: Students will be introduced to various ways of interaction of gamma rays with matter. Photoelectric effect, Compton effect and pair production processes will be explained to them. |
| **SEMESTER-VI** | |
| **Paper:A( CondensedMatter Physics-II)** | CO 1: Concept of Phonons will be introduced to the students. Moreover, they will be able to<br>calculate the density of modes of vibrations.<br>CO 2: Students will learn about the basic concepts of band theory and differentiate between<br>conductors, semi-conductors and insulator using Kronig-Penny model. |
| **Paper:B(Electronics-II)** | CO1:Students will further learn about the 555timer and its applications as a stable and monostable multivibrator<br>CO2:Students will learn about the basic concepts of digital electronics such as K-Maps.<br>CO3:Students will learn about propagation of waves and modulation and |

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| | demodulation. |
| **Paper: C**<br>**(Nuclear Physics-II)** | CO 1: Students will be introduced with the various modes of decay of radioactive nuclides and the<br>laws governing the radioactive decay<br>CO 2: Students will be introduced to various types of Particle detectors ,accelerators used for detecting and accelerating the charge particles. |

# DEPARTMENT OF CHEMISTRY

## Course Outcomes of B.Sc. (Chemistry)

| Course | Outcomes<br>After completion of these course, students should be able to**;** |
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| **SEMESTER-I & II** | |
| **Paper: A (Inorganic Chemistry)** | CO1: This course imparts essential knowledge regarding Quantum mechanical approach to atomic structure, periodic properties, and chemistof noble gases, s-block elements and overall idea of chemical bonding.<br>CO2: Students get a thorough knowledge on over all inorganic chemistry. They learn role of elements in chemistry and their uses.<br>CO3: Students learn modern theories of chemical bonding like VSEPR theory, Valence bond theory and Molecular orbital theory.<br>CO4: Students will learn about properties of all the groups P-block elemen |
| **Paper: B (Organic Chemistry)** | CO1: This course make students capable of understanding and learning nomenclature, structure and bonding and classification of organic compounds and basic concepts of organic chemistry like–reaction mechanism, intermediates and attacking reagents etc.<br>CO2: Students learn preparation and properties of organic compounds like hydrocarbons, alkanes and cycloalkanes, alkenes, cycloalkenes, alkynes an dienes.<br>CO3: students will get to know about stereochemistry, conformations, configurations and isomerism.<br>CO4: students will get to know about aromaticity and aromatic compound also they will learn the synthesis and properties of arenes, alkyl halide and aryl halide. |
| **Paper: C (Physical chemistry)** | CO 1: This course enables the students to learn about the mathematical concepts and evaluation of analytical data, gaseous state of matter<br>CO2: Students will learn about chemical kinetics and various concepts tha are related with chemical kinetics.<br>CO3: students will get the complete idea of thermodynamics and thermochemistry. |

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| | CO4: This course enables the students to get an idea of colloidal state, also about solutions, dilute solutions and colligative properties. |
| **Paper: Practicals** | CO 1: Course develops the skills to determine physical constants like melting points and boiling points.<br>CO2: Develops skill of volumetric titrations of acid and base<br>CO3: Develops skill regarding systematic qualitative analysis of inorganic mixtures containing two acidic and two basic radicals by semi micro method of analysis.<br>CO4: Students learn and perform experiments related to physical chemistry i.e. Surface tension, viscosity Chemical Kinetics and Thermodynamics. |
| **SEMESTER-III & IV** | |
| **Paper: A (Inorganic Chemistry)** | CO1: Advanced Theories on coordination Chemistry, Structure, Bonding and Stereochemistry of important Coordination Compounds.<br>CO 2: chemistry of transition elements involving first, second and third transition series.<br>CO3:Non-Aqueous solvents, and concept of redox reactions.<br>CO 4: Chemistry of Lanthanides and Actinides.<br>CO5: Concept of acid and base |
| **Paper: B (Organic Chemistry)** | CO1: Students will learn about the synthesis of various organic compounds like alcohols, phenols, aldehydes and ketones.<br>CO2: Synthesis and properties of important class of organic compound like carboxylic acid and their derivatives, ethers, fats, oils and detergents.<br>CO3: Students will learn about the organic compounds containing nitrogen and other heterocyclic compounds |
| **Paper: C (Physical chemistry)** | CO1: Basic concepts and Laws of Thermodynamics, chemical equilibrium and liquid state of matter.<br>CO2: Students will get complete idea of electrochemistry and electrochemical and electrolytic cells.<br>CO3: Idea of Distribution law, liquid-liquid mixture and phase equilibrium |
| **Paper: Practical** | CO1: Techniques of Thin Layer Chromatography, thermo chemistry.<br>CO2: Quantitative estimations of different ionic species using different branches of Volumetric and Gravimetric Analysis.<br>CO3: Qualitative analysis of organic compounds with synthesis of their derivatives and physical constant determinations. |
| **SEMESTER-V & VI** | |

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| **Paper: A (Inorganic chemistry)** | CO1: Crystal Field Splitting in coordination complexes, their stability, color and magnetic properties and use of magnetic moments for interpretationof their structures and thermodynamic and kinetic aspects of metal complexes.<br>CO 2: Electronic transitions, selection rules and Term symbols.<br>CO3: Thorough knowledge of Organometallic chemistry.<br>CO4: Complete idea of bioinorganic chemistry.<br>CO5: Synthesis and properties of silicones and phosphazenes and HSAB concept. |
| **Paper: B (Organic Chemistry)** | CO1: Different spectroscopic methods of analysis which includes UV, IR & NMR techniques.<br>CO 2: Study of Carbohydrates, Polymers, Organometalic compounds, Amino acids, Proteins, RNA and DNA.<br>CO3: Synthesis of different organic compounds via enolate ions. |
| **Paper: C(Physical chemistry)** | CO 1: Elementary idea of quantum mechanics and photochemistry.<br>CO2: Students will learn about solid state of matter.<br>CO3: Students will be introduced with the various branches of physical spectroscopy like rotational, vibrational, electronic and brief idea of raman spectroscopy. |
| **Paper: Practical** | CO 1: Synthesis of organic and inorganic compounds<br>CO2: Column chromatography<br>CO 3: Various physical chemistry experiments related to conductometry<br>CO4: Rast method, Distribution Law and Adsorption Isotherm. |

## Course Outcomes M.Sc. (Chemistry)

| Course | **Outcomes**<br>After completion of these course, students should be able to**;** |
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| **SEMESTER-I** | |
| Inorganic chemistry<br><br>Organic chemistry | Explain the fundamentals of atomic structures with respect to quantum mechanical approach in detail by understanding wave mechanics in three dimensions and able to discuss about the advanced concepts of chemical kinetics. |

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| Physical chemistry<br>Biology for chemists<br><br>Mathematics for chemists<br><br>Computers for chemists | The chemical basis for biological phenomena and cellular structure. nucleic acid structure – building blocks of both DNA and RNA, secondary structures, tertiary structures and higher order packaging of genomic DNA.<br>Understand matrix algebra. They can draw different kind of curves. students will learn about permutation and probability theory and their application.<br><br>An ability to apply knowledge of computing and mathematics appropriate tothe discipline. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs. |
| **SEMESTER-II** | |
| Inorganic chemistry<br><br>Organic chemistry<br><br>Physical chemistry<br><br>Group theory and spectroscopy | • Illustrate the principles behind the Metal Ligand equilibria in solution with respect to the formation, their Kinetic and thermal stability, and determinations, crystal field theory of transition metal complexes in octahedral and tetrahedral geometry.<br>• Predict and account for the most commonly encountered reaction mechanisms in organic chemistry including aromatic substitution reaction, addition reactions, elimination reactions and rearrangements as well as basics of amino acids and peptides.<br>• Understand concepts of partial molar properties, concept of fugacity and their determination methods including Debye-Huckel theory to strong electrolytes and also learn the thermodynamics of electrified interface.<br>• Recognize symmetry elements in a molecule; State the point group a molecule belongs to. Understand the role of symmetry in electronic spectroscopy, selection rules. Develop skills in numeracy and problem solving. The subject specific skill is the acquisition of a theoretical framework which underlies much of spectroscopy. |
| **SEMESTER-III** | |
| ORGANOMETAL LICCHEMISTRY | • Have the core idea about advanced organic chemistry principles and theories to develop research oriented skills in applied organic chemistry.<br>• Understand the concept and definitions of Aliphatic nucleophilic and electrophilic substitution reactions, fundamentals of free-radicals, pericyclic |

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| HETEROCYCLIC CHEMISTR<br><br>ORGANIC SPECTROSCOPY<br><br>Environmental chemistry | chemistry.<br><br>• Encompass achieved advanced knowledge about the interactions of electromagnetic radiation and matter and their applications in organic spectroscopy to elucidate the structure of the organic compounds.<br>• Demonstrate knowledge of chemical and biochemical principles of fundamental environmental processes in air, water, and soil. 2. Recognize different types of toxic substances & responses and analyze toxicological information |
| **SEMESTER-IV** | |
| ORGANIC SYNTHESIS<br><br>CHEMISTRY OF NATURAL PRODUCTS<br><br>Biophysical chemistry<br><br>Photochemistry | Understand the concept and definitions of Aliphatic nucleophilic and electrophilic substitution reactions, fundamentals of free-radicals, pericyclic chemistry.<br><br>In depth knowledge about organic chemical reactions with a focus on principles for effective synthetic strategies.<br><br>Membrane structures – component molecules, supramolecular arrays, structure and function of proteins associated with membranes. transport mechanisms across membranes. biosignaling – mechanisms for amplification of signals, components of signal transduction networks, types of signal transducers, mechanisms for activation and regulation of signal transducers. biosynthetic pathways – steps in biosynthesis of lipids, amino acids and nucleic acids, regulation of pathways, structure and function of biosynthetic enzymes, mechanisms of action of biosynthetic enzymes<br><br>Describe the interaction of excited states with their surroundings, and apply theoretical methods for treating excited states. Explain and discuss theories for photoinduced electron transfer and excitation energy transfer, and apply these methods in quantitative calculations. |

# Department of Botany

## Program Outcomes: B.Sc. (Botany)

| Course | Outcomes<br>After completion of these course, students should be able to**;** |
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| **SEMESTER-I** | |
| **Paper – BOT-A**<br>**Plant Diversity** | **CO-1** Understand the diversity among Algae and Fungi.<br>**CO-2** Know the systematic, morphology and structure, life cycle pattern, useful and harmful activities of Algae and Fungi.<br>**CO-3** Know the Economic Importance of Algae and Fungi. |
| **Paper – BOT-B**<br>**Cell Biology** | **CO-1** Understand the basic structural unit of life i.e. Cell and its organelles.<br>**CO-2** Learn biochemical nature of nucleic acids, their role in living systems, experimental evidences to prove DNA as a genetic material.<br>**CO-3** Understand the process of synthesis of proteins and role of genetic code in polypeptide formation. |
| **SEMESTER-II** | |
| **Paper – BOT-A**<br>**Plant Diversity-II** | **CO-1** Know about how different life forms have evolved from simpler to complex ones**.**<br>**CO-2** Understand the morphological diversity and economic importance of the Bryophytes and Pteridophytes.<br>**CO-3** Know the taxonomic position, occurrence, thallus structure, reproduction of Bryophytes and Pteridophytes. |
| **Paper – BOT-B**<br>**Genetics** | **CO-1** Understand various aspects of hereditary trends observed in successive generations.<br>**CO-2** Understand the different types of genetic interaction, incomplete dominance, codominance, inter allelic genetic interactions, multiple alleles and |

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| | quantitative inheritance etc<br>**CO-3** Know about the structural and functional differentiation of plants. |
| **SEMESTER-III** | |
| **Paper – BOT-A Diversity of seed plants and their systematic -I** | **CO-1** Know the scope of Paleobotany, types of fossils, its role in global economy and geological time scale and also to understand the various fossil genera representing different fossil groups.<br>**CO-2** Understand the diversity of Gymnosperms in India.<br>**CO-3** Know the evolutionary trends and affinities of living gymnosperms with respect to external and internal feature |
| **Paper-BOT Structure, Development and Reproduction in Flowering plants-I** | **CO-1** Understand the basic body plan and diversity in flowering plant forms**.**<br>**CO-2** Know the vegetative and reproductive morphology of plants.<br>**CO-3** Familiarize with plants bearing the enclosed seeds. |
| **SEMESTER-IV** | |
| **Paper – BOT-A Diversity of seed plants and their systematic -II** | **CO-1** Understand the Phylogeny of angiosperms and the general range of variations in the group of angiosperms.<br>**CO-2** Trace the history of development of systems of classification emphasizing angiospermic taxa.<br>**CO-3** Learn about the characters and floral variations among biologically important families of angiosperms.<br>**CO-4** Understand various rules, principles and recommendations of plant nomenclature produces in plant identification. |
| **Paper – BOT-B Structure, Development and Reproduction in** | **CO-1** Understand the scope & importance of Anatomy, various tissue systems and the normal & anomalous secondary growth in plants and their causes.<br>**CO-2 K**now the methods of pollination and fertilization.<br>**CO-3** Gain knowledge of Vegetative and Reproductive morphology of |

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| **Flowering plants-II** | Angiosperms. |
| **SEMESTER-V** | |
| **Paper – BOT-A**<br>**Plant Physiology-I** | **CO-1** Know importance and scope of plant physiology.<br>**CO-2** Understand the plants and plant cells in relation to water.<br>**CO-3** Learn about the movement of sap and absorption of water in plant body. |
| **Paper – BOT-B**<br>**Plant Ecology** | **CO-1** Understand the basic concepts of ecology.<br>**CO-2** Understand plant communities and ecological adaptations in plants.<br>**CO-3** Learn about various present day problems such as Pollution, Global warming and climate change. |
| **SEMESTER-VI** | |
| **Paper – BOT-A**<br>**Plant Physiology-II** | **CO-1** Understand the process of photosynthesis in higher plants with particular emphasis on light and dark reactions, C3 and C4 pathways.<br>**CO-2** Understand the respiration in higher plants with particular emphasis on aerobic and anaerobic respiration.<br>**CO-3** Learn the basic concepts in tissue culture.<br>**CO-4** Understand the various plant movements. |
| **Paper – BOT-B**<br>**Economic Botany** | **CO-1** Understand the role of plants and plant products in human welfare.<br>**CO-2** Gain knowledge about chemical contents of the various plant products of economic use.<br>**CO-3** Know about the utility of plant resources. |

# DEPARTMENT OF ZOOLOGY

## Course Outcomes of B.Sc. (Zoology)

| Course | Outcomes<br>After completion of these course, students should be able to**;** |
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| **SEMESTER-I & II** | |
| **Paper name: Biodiversity: Non chordates and Cell Biology .**<br>**Paper code: ZOO 101 & 102** | **CO 1:** The Zoological study of different phylum of chordates and non-chordates will enable students to gain knowledge of general classification of animals.<br>**CO 2:** General characters and peculiarities of the Kingdom Animalia and their involvement in the environment will help students understand the concepts better.<br>**CO 3:** The knowledge of biodiversity is essential for the processes that support all life on earth and will inculcate in them the importance of every surviving animal on the earth and necessity of their presence for the survival of the ecosystem.<br>**CO4:** The study of cell Biology helps the students to understand the principles and applications of various types of biological equipments<br>**CO 5:** Helps them to recognize the basic structure of a eukaryotic cell and functions of various organelles like plasma membrane, mitochondria etc.<br>**CO 6**: It also comprehends eukaryotic cell cycle and cell division and the role of protooncogenes and tumor suppressor genes in cancer; mechanism and significance of apoptosis. |
| **Paper Name: Ecology**<br>**Paper code: ZOO 201& 202** | **CO 1:** The concept of Ecology provides the essential basis for nature conservation and maintaining a mosaic of habitats ensuring the survival of a rich variety of species.<br>**CO 2:** It will enable the students to have an idea about the various pollutions in the ecosystem that are disturbing the balance of the nature.<br>**CO 3:** The concept of sustainable development teaches the students to learn the optimum uses of the non-renewable resources of the earth<br>**CO 4:** to apply methodologies for the use of renewable resources in the survival of the mankind and making predictions about future climate change. |
| **Semester – III & IV** | |
| **Paper name: Biodiversity: Chordates & Evolution**<br>**Paper code: 301 & 401** | **CO 1:** The Zoological study of different phylum of chordates and non-chordates will enable students to gain knowledge of general classification of animals.<br>**CO 2:** General characters and peculiarities of the Kingdom Animalia and their involvement in the environment will help students understand the concepts better.<br>**CO 3:** Identify major evolutionary transitions over time, and explain the tools |

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| | and evidences that support current hypotheses of the history of life on earth.<br>**CO 4:** Also, Comprehend the various theories of evolution and the mechanisms by which evolution occurs.<br>**CO 5:** Recognize the significance of reproductive isolation in reducing gene flow between populations, biological and morphological species concepts<br>**CO 6:** Distinguish between prezygotic and postzygotic barriers to reproduction along with review in the events in human evolution |
| **Paper Name: Biochemistry and Animal physiology**<br>**Paper code: 302 & 402** | **CO 1**: Understand how life works in a fundamental way--immense and indispensable daily life activities.<br>**CO 2:** Its application used in clinical diagnosis, manufacture of various biological products, treatment of diseases, in nutrition, agriculture, etc.<br>**CO 3:** Understand the metabolic processes by which energy is produced in cells and carbohydrates are synthesized and their biological roles.<br>**CO 4:** Researches in this field will provide different job-oriented courses which will be beneficial to the students |
| **SEMESTER- V & VI** | |
| **Paper Name: Developmental Biology and reproduction.**<br>**Paper Code: ZOO 501** | **CO 1:** Understanding the molecular, genetic, cellular and integrative aspects of building an organism.<br>**CO 2:** It also gives the knowledge of normal developmental processes can aid in the understanding of developmental abnormalities and other fatal conditions like cancer. |
| **Paper Name: Medical zoology and Parasitology**<br>**Paper Code: ZOO 502A & 602A** | **CO 1:** The study of harmful microbes helps the students to know about the mode of infection of those pathogens.<br>**CO 2:** Moreover, the control measures and the prophylactic measures will give a clear idea about how to manage the diseases<br>**CO 3:** To design new medicines in combating the infections caused by harmful microbes. |
| **Paper Name: Genetics**<br>**Paper Code: ZOO 601** | **CO 1**: Allelic and non-allelic gene interaction will help the students to gain knowledge in the life processes and will provide them scope in researches.<br>**CO 2:** Comprehensive, detailed understanding of the chemical basis of heredity<br>**CO 3:** Comprehensive and detailed understanding of genetic methodology and how quantification of heritable traits in families and populations provides insight into cellular and molecular mechanisms.<br>**CO 4:** Understanding of how genetic concepts affect broad societal issues including health and disease, food and natural resources, environmental sustainability, etc.<br>**CO 5:** Understanding the role of genetic mechanisms in evolution.<br>**CO 6:** The knowledge required to to design, execute, and analyse the results of genetic experimentation in animal and plant model systems.<br>**CO 7:** The ability to recognize the experimental rationale of genetic studies as they are described in peer-reviewed research articles and grant proposals to federal and other funding agencies. |
| **Visits and Field Trips:** | **CO 1:** Field Excursion conducted is very much beneficial to the students. |

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| | **CO 2:** The visit to National Park or Sanctuary or Biosphere Reserve help the students to learn the various conservation strategies, both in-situ as well as ex-situ, for animals and plants.<br>**CO 3:** This study provides them the idea about the status of different animals on the ecosystem and also the need of conservation of the threatened or endangered species. |
| **Practical:** | **CO 1:** The demonstrations of animal dissections will benefit the students to have an idea of the internal anatomy of the animal which will provide them a sound knowledge about the internal environment of the living animals. |

# R.S.D. COLLEGE

**FEROZEPUR CITY (152002)**

# FACULTY OF COMPUTER APPLICATIONS

## Programme Outcomes (POs)

**and**

## Course Outcomes (COs)

# DEPARTMENT OF COMPUTER APPLICATIONS

## Course Outcomes of BCA

| Course | **Outcomes**<br>After completion of these course, students should be able to**;** |
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| SEMESTER-I | |
| Paper Code- BCA-16-102Fundamentals of Mathematical Statistics | CO-1: Students will learn how to calculate and apply measure of location and measure of dispersion –grouped and ungrouped data cases.<br>CO-2: Students will be able to compute and interpret the result of bivariate and multivariate regression and correlation analysis.<br>CO-3: Students will recognize and appreciate the connection between theory and applications.<br>CO-4: Students will be able to communicate key statistical concept to non statisticians<br>CO-5: Students will be familiar with a variety of examples where mathematics or statistics helps accurately explain abstract or physical **phenomena .** |
| Paper Code- BCA-16-103<br>Paper Name-Computer Fundamentals and Computing Software | CO-1: Understand the fundamental hardware components that make up a computer's hardware and the role of each of these components<br>CO-2: Understand the difference between an operating system and an application program, and what each is used for in a computer<br>CO-3: Describe the organization and operation of a computer processor, primary and secondary memory and peripheral devices and to give computer specifications.<br>CO-4: Understanding the concept of input and output devices of Computers and how it works.<br>CO-5: Provide hands-on use of Microsoft Office 2010 applications Word, Excel and PowerPoint. Completion of the assignments will result in MS Office applications knowledge and skills. |
| Paper Code-BCA-16-104<br>Paper Name- Problem Solving Through C | CO-1. Students learn how build an algorithm for problems<br>CO-2. Students learn basics of logic development using C-language<br>CO-3. Enable students to create pictorial representations of the program<br>CO-4. Enhance students programming concepts<br>CO-5. Students learn basics of file handling. |
| Paper Code-BCA-16-105<br>Paper Name-Lab Based on Computer Fundamentals and Computing Software | CO-1.To introduce Basic Unix general purpose Commands<br>CO-2.To creates documents using MS Word Word Processing Package.<br>CO-3.To creates attractive presentations using MS Power Point.<br>CO-4.Completion of the assignments will result in MS Office applications knowledge and skills.<br>CO-5. Student will be able to compose, format and edit a word document. |
| Paper Code-BCA-16-106<br>Paper Name- Lab Based on | CO-1.Develops basic understanding of computers, the concept of algorithm and algorithmic thinking. |

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| Through C | CO-2. Develops the ability to analyze a problem, develop an algorithm to solve it.<br>CO-3.Develops the use of the C programming language to implement various<br>algorithms<br>CO-4. Develops the basic concepts and terminology of programming in general.<br>CO-5. Introduces the more advanced features of the C language . |
| SEMESTER-II | |
| Paper Code-BCA-16-202<br>Paper Name-Computer Organization | CO-1. TO inculcate the skills of computer components and their connectivity<br><br>CO-2. Presenting the students the skill of buses and architectures |
| Paper Code-BCA-16-203<br>Paper Name-Fundamental of Web Programming | CO-1 To enhance the students with the skills of website designing<br>CO-2 To prepare the students with the connection of front end and back end. |
| Paper Code-BCA-16-204<br>Paper Name-Object Oriented Programming using C++ | CO-1. Software Development capablility in c++<br>CO-2. GO handy with object oriented concepts and<br>File handling |
| SEMESTER-III | |
| Paper Code-BCA-16-303<br>Paper Name-Information System Design And Implementation | CO-1.The key modeling concepts applicable to both structured approaches to systems development are examined.<br>CO-2. An understanding suited to the needs of a business analyst, information systems selector or managerial consultant.<br>CO-3. Understand and apply key principles of good user interface design.<br>CO-4. Explain needs for software specifications also they can classify Different types of software requirements and their gathering techniques.<br>CO-5.Justify role of SDLC in Software Project Development and they can evaluate importance of Software Engineering |
| Paper Code-BCA-16-305<br>Paper Name-Data Structures | CO-1 To know the strategies for data storage, fetching, manipulation and analysis capability<br>CO-2 Students can further explore the ideas for stat storage and retrieval |
| Paper Code-BCA-16-306<br>Paper Name-Lab Based on Computer Numerical Methods | CO-1.Apply numerical methods to find our solution of algebraic equations using different methods under different conditions, and numerical solution of system of algebraic equations.<br>CO-2.Apply various interpolation methods and finite difference concepts<br>CO-3.Work<br>numerically on the<br>different methods through the theory of finite differences.<br>CO-4.To learn important theorems, different formulae and practical applications of these statistical and optimization methods in the field of Computer Sciences and Applications. |

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| | CO-5.Apply Mathematical Modeling and Solving Mathematical Problems with help of C language. |
| Paper Code- BCA-16-307<br>Paper Name-Data Structures | CO-1 To impart the technical and practical skills for implementation of data. |
| SEMESTER-IV | |
| Paper Code- BCA-16-403<br>Paper Name-Software Project Management | CO-1. Students can manage the project by using techniques available<br>CO-2.Go for Managers and team leaders<br>CO-3. Project builders can be developed |
| Paper Code-BCA-16-404<br>Paper Name-Operating System Concept and Linux | CO-1.Students can work with the core processors<br>CO_2 To go for the operating system development<br>CO-3Work in the scheduling techniques and deadlock handling mechanisms |
| Paper Code- BCA-16-406<br>Paper Name-Database Management System | CO-1 Students can handle the database very easily<br>CO-2 understanding the power of database when connected with the front end |
| SEMESTER-V | |
| BCA-16-501<br>Paper Name- Computer Networks | CO-1: Study the basic taxonomy and terminology of the computer networking and enumerate the layers of OSI model and TCP/IP model.<br>CO-2: Study Physical layer design issues, its functions andprotocols.<br>CO-3: Study Session layer design issues, Transport layer services, and protocols.<br>CO-4: Acquire knowledge of Application layer and Presentation layer paradigms and protocols.<br>CO-5: Gain core knowledge of Network layer routing protocols and IP addressing.<br>CO-6: Study data link layer concepts, design issues, and protocols. |
| Paper Code-<br>BCA-16-502<br>Paper Name-<br>Discrete Mathematical Structure | CO-1 : Students learn about topics such as logic and proofs, sets and functions, probability, recursion<br>CO-2 : graph theory, matrices, Boolean algebra and other important discrete math concepts. |
| Paper Code-<br>BCA-16-<br>503<br>Paper Name-<br>Java Programming | CO-1: Students learn OOPs concepts develop Programs in Java using these concepts like Classes, Objects, Inheritance, and Polymorphism etc.<br>CO-2: Learning implementation of Interfaces, Packages, Multithreading and Applet Programming |
| Paper Code- BCA-16-504Paper Name- Web | CO-1: Learning PHP and developing forms using PHP<br>CO-2: Overall Objective to learning Website Development. |

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| Application Development using PHP | |
| Paper Code- BCA-16-505 Paper Name- Lab based on BCA-16-503 | CO-1 To impart the technical and practical skills for implementation of data. |
| Paper Code-BCA-16-506 Paper Name- Lab basedon BCA-16-504 | CO-1: To impart the technical and practical skills for implementation of data. |
| **Semester-VI** | |
| Paper Code-BCA-16-601 Paper Name-E Commerce | CO-1.to inculcate employment skills by teaching e commerce as a subject<br>CO-2To facilitate the students regarding development for the with Online business, shopping applications. |
| Paper CodeBCA-16-603 Paper Name-Computer Graphics and Multimedia | CO-1. To help the students in their career opportunities in graphics, multimedia, games development<br>CO-2 Help the students for cartooning presentations 2D or 3D. |
| Paper Code-BCA-16-602 Paper Name-ApplicationDevelopment using VB.N | CO-1 To present the students with the application or software development in .Net and database linking advantages<br>CO-2 To present testing and designing future ahead |
| Paper Code-BCA-16-605 Paper Name-Major Project and Seminar | CO-1 To prepare the students for the project development and the seminar presentations for building up their career opportunities.<br>CO-2 Job opportunities in project development. |
| Paper Code-BCA-16-604 Paper Name- Lab based on BCA-16-603 | CO-1: To impart the technical and practical skills forimplementationof data. |

## Course Outcomes of M. Sc (IT)

| Course | **Outcomes**<br>After completion of these course, students should be able to**;** |
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| SEMESTER-I | |
| Paper Code-MS-66 Paper Name- Linux Administration AndProgramming | CO-1.Enable students to Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security.<br>CO-2.Students will be able to develop shell scripts to perform more complex tasks.<br>CO-3.Students can effectively use the UNIX/Linux system to accomplish |

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| | typical<br>personal, office, technical, and software development tasks.<br>CO-4. Enable students to Monitor system performance and network activities.<br>CO-5.Student.effectively use software development tools including libraries, preprocessors, compilers, linkers, and make files. |
| Paper Code-MS-61<br>Paper Name-Software Engineering | CO-1 To present in detail the steps for the software development<br>CO-2To present the students various testing strategies for the software<br>CO-3 TO inculcate the designing process with various models |
| Paper Code-MS-62<br>Paper Name-Computer Algorithms | CO-1.Analyse the asymptotic performance of algorithms.<br>CO-2.Write rigorous correctness proofs for algorithms.<br>CO-3.Demonstrate a familiarity with major algorithms and data structures.<br>CO-4.Apply important algorithmic design paradigms and methods of analysis.<br>CO-5.Synthesize efficient algorithms in common engineering design situations. |
| Paper Code-MS-42<br>Paper Name-Operating System Concepts | CO-1.To understand the general architecture of computers.<br>CO-2.To understand the contrast and compare differing structures foroperating systems.<br>CO-3.Understand and analyze theory and implementation of processes resources control physical and virtual memory scheduling I/O and files.<br>CO-4.General understanding of structure of modern computers<br>CO-5.Purpose,structure and functions of operating systems |
| Paper Code-MS-63<br>Paper Name-Minor Project Based On Linux Administration And Programming | CO-1.To familiarize the students with the Operating System.<br>CO-2.To demonstrate the process, memory, file and directory management issues<br>under the UNIX/ LINUX operating<br>system CO-3.To introduce LINUX basic<br>commands<br>CO-4.To make students how to make simple programs in LINUX and administrative task of LINUX |
| **Paper Code-MS-64**<br>**Paper Name-Minor Project Based On Computer Algorithms** | CO-1.Ability to choose appropriate algorithm design techniques for solving<br>problems.<br>CO-2. Ability to understand how the choice of data structures and the algorithm<br>design<br>CO-3. Methods impact the performance of programs. To clear up troubles the<br>usage of set of rules design methods including the |

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| | CO-4. Grasping approach, divide and overcome, dynamic programming,<br>backtracking and department and certain.<br>CO-5.To understand the variations among tractable and intractable problems. |
| **Semester-II** | |
| **Paper Code- MS-65**<br>**Paper Name- E Commerce and Emerging Trends** | CO-1. Students can explore the electronic based applications for the self employment purpose<br>CO-2 can go with advertisement developments, shopping sites. |
| **Paper Code- MS-45**<br>**Advance Java and Network Programming** | CO-1 Students can go for the networking programming and java programming<br>based applications.<br>CO-2 fruitful opportunities for the networking based apps. |
| **Paper Code- MS-60 MS-**<br>**Paper Name-Advance DBMS and MYSQL** | CO-1.TO have a fruitful career in database connectivity<br>CO-2 .To facilitate with the students for the management capability in database |
| **Paper Code- MS-67**<br>**Paper Name-Artificial Intelligence** | CO-1 Job opportunities in machine learning, sensors, robotics, expert system<br>CO-2 Image Processing, Pattern Recognitions are the key topics to choose. |
| **Paper Code- MS-27**<br>**SEMINAR** | CO-1: Students will be able to show competence in working with a methodology, structuring their oral work, and synthesizing information. |
| **Paper Code- MS-56**<br>**Minor project based on MS-45 & MS-60** | CO1: Acquire skills to develop the software project. CO2: Understand the software development life cycle. |
| **Paper Code- MS-68**<br>**Minor project based on MS-67** | CO1: Acquire skills to develop the software project. CO2: Understand the software development life cycle. |
| **Semester-III** | |
| **Paper Code-MS-32**<br>**Paper Name-.NET Framework and C#** | CO-1. To inculcate the students for the software development using .NET<br>CO-2. To improve the website designing skills with >NET and C# |
| **Paper Code- MS-69**<br>**Paper Name- Theory of Computation** | CO-1.Demonstrate advanced knowledge of formal computation and its relationship<br>to languages<br>CO-2.Distinguish different computing languages and classify their respective types |

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| | CO-3.Recognise and comprehend formal reasoning about languages<br>CO-4.Show a competent understanding of the basic concepts of complexity theory |
| **Paper Code-MS-39**<br>**Paper Name- Computer Graphics** | CO-1.Critical understanding of the theory of 2D and 3D transformations, projection<br>and viewing<br>CO-2. Ability to find & combine relevant sources and synthesise designs<br>CO-3. Detailed knowledge of the graphics pipeline<br>CO-4. Detailed knowledge of shading and texture mapping algorithms<br>CO-5. Broad knowledge of 3D modelling and rendering techniques |
| **Paper Code-MS-14**<br>**Paper Name-System Approach to Management And Optimization Techniques** | CO-1 To prepare the students for the Optimized solutions<br>CO-2 Improving the students for Managerial Approaches |
| **Paper Code-MS-33**<br>**Paper Name-Minor Project Based on .NET Framework and C#** | CO-1 To inculcate the website designing concepts using .NET and C#<br>CO_2 To prepare the students for connectivity<br>CO-3 To prepare the students with the software developmen |
| **Paper Code-MS-59**<br>**Paper Name-Minor Project Based on Computer Graphics** | C0-1.Ability to understand, design and implement scene graphs<br>CO-2. Practical skills in graphics programming including sc<br>CO-3.General critical analysis, evaluation and synthesis of ideas for the design of their project<br>CO-4. Representation of, planning for, and solution of problems |
| **Paper Code- MS-27**<br>**SEMINAR** | CO-1: Students will be able to show competence in working with a methodology, structuring their oral work, and synthesizing information. |
| **Semester-IV** | |
| **Major project** | Outcome: Internship for the software Carrier. The best outcome is student can place in asoftware company as software engineer, website developer, and System analyst. |

## Course Outcomes –B.Voc(Software Development)

| Course | **Outcomes**<br>After completion of these course, students should be able to**;** |
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| SEMESTER-I | |
| **Paper Code-**<br>***GEN-102**<br>**Paper Name-**<br>**Fundamentals of Information Technology I** | CO-1: Understand the fundamental hardware components that make up a computer's hardware and the role of each of these components<br>CO-2: Understand the difference between an operating system and an application program, and what each is used for in a computer<br>CO-3: Describe the organization and operation of a computer processor, primary and secondary memory and peripheral devices and to give computer specifications.<br>CO-4:Understanding the concept of input and output devices of Computers and how it works. |
| **Paper Code-**<br>**SD 103**<br>**Paper Name-**<br>**Logic Development Techniques** | CO-1. Students learn how build an algorithm for problems<br>CO-2. Students learn basics of logic development using C-language<br>CO-3. Enable students to create pictorial representations of the program<br>CO-4. Enhance students programming concepts |
| **Paper Code-**<br>**SD 104**<br>**Paper Name-**<br>**Fundamentals of Information Technology II** | C0-1: Provide hands-on use of Microsoft Office 2010 applications Word, Excel, Access and PowerPoint. Completion of the assignments will resultin MS Office applications knowledge and skills. |
| **Paper Code-**<br>**SD 105**<br>**Paper Name-**<br>**Internet Application** | CO-1: Understanding basics of HTML<br>CO-2: Learning fundamentals of JavaScript's and JavaScript objects<br>CO-3: Learning PHP and developing forms using PHP<br>CO-4: Overall Objective to learning Website Development. |
| **Semester-II** | |
| **Paper Code-SD 108**<br>**Paper Name- Relational Database Management System** | CO-1 Students can handle the database very easily<br>CO-2 understanding the power of database when connected with the front end |
| **Paper Code- SD 109**<br>**Paper Name- RDBMS using MYSL** | CO-1. To have a fruitful career in database connectivity.<br>CO-2. To facilitate with the students for the management capability in database. |
| **Paper Code- SD 110**<br>**Paper Name Programming in C Language** | CO-1. Students learn how build an algorithm for problems<br>CO-2. Students learn basics of logic development using C-language<br>CO-3. Enable students to create pictorial representations of the program<br>CO-4. Enhance students programming concepts |

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| | CO-5. Students learn basics of file handling. |
| **Paper Code- SD 111**<br>**Paper Name-PC maintenance and trouble shooting** | CO-1: Students will be able to identify the essential components of a computer;<br>CO-2: Students will be able to describe the function of the essential components of a computer;<br>CO-3: Students will be able to recommend hardware;<br>CO-4: Students will be able to develop a computer system proposal/presentation for a client;<br>CO-5: Students will be able to troubleshoot hardware components;<br>CO-6: Students will be able to assemble a computer with essential components; |
| **Paper Code- **SIT-201**<br>**Paper Name- Summer Industrial Training** | CO-1: Student is able to construct the company profile by compiling the brief history, management structure, products / services offered, key achievements and market performance for his / her organization of internship.<br>CO-2: For his / her organization of internship, the student is able to assess its Strengths, Weaknesses, Opportunities and Threats (SWOT).<br>CO-3: Student is able to determine the challenges and future potential for his / her internship organization in particular and the sector in general.<br>CO-4: Student is able to test the theoretical learning in practical situations by accomplishing the tasks assigned during the internship period. |
| **Semester-III** | |
| Paper Code- SD 202<br>Paper Name- Mathematical Tools for Computer Science | CO-1: An ability to apply knowledge of computing and mathematics appropriate to the discipline<br>CO-2: An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution<br>CO-3: An ability to design, implement, and evaluate a computer-basedsystem, process, component, or program to meet desired needs<br>CO-4: An ability to function effectively on teams to accomplish a common goal.<br>CO-5: An understanding of professional, ethical, legal, security and social issues and responsibilities |
| **Paper Code-SD 203**<br>**Paper Name-Object Oriented using C++** | CO-1. Software Development capablility in c++<br>CO-2. GO handy with object oriented concepts and File handling |
| **Paper Code-SD 204**<br>**Paper Name-Data Structures using C++** | CO-1 To impart the technical and practical skills for implementation of data.<br>CO-2: To know the strategies for data storage, fetching, manipulation and analysis capability<br>CO-3: Students can further explore the ideas for stat storage and retrieval |
| **Paper Code- SD 205** | CO-1: Study the basic taxonomy and terminology of the computer |

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| **Paper Name-**<br>**Data Communication and Networks** | networking and enumerate the layers of OSI model and TCP/IP model.<br>CO-2: Study Physical layer design issues, its functions andprotocols.<br>CO-3: Study Session layer design issues, Transport layer services, and protocols.<br>CO-4: Acquire knowledge of Application layer and Presentation layer paradigms and protocols.<br>CO-5: Gain core knowledge of Network layer routing protocols and IP addressing.<br>CO-6: Study data link layer concepts, design issues, and protocols. |
| **Semester-IV** | |
| **Paper Code-SD 208**<br>**Paper Name-Operating System** | CO-1.Students can work with the core processors<br>CO_2 To go for the operating system development<br>CO-3Work in the scheduling techniques and deadlock handling mechanisms |
| **Paper Code-SD 209**<br>**Paper Name-Web Programming** | CO-1: Understanding basics of HTML<br>CO-2: Learning fundamentals of JavaScript's and JavaScript objects<br>CO-3: Learning PHP and developing forms using PHP<br>CO-4: Overall Objective to learning Website Development. |
| **Paper Code- SD 210**<br>**Paper Name-Java Programming** | CO-1: Students learn OOPs concepts develop Programs in Java using these concepts like Classes, Objects, Inheritance, and Polymorphism etc.<br>CO-2: Learning implementation of Interfaces, Packages, Multithreading and Applet Programming |
| **Paper Code- SD 211**<br>**Paper Name-Computer Based Accounting** | CO-1: Learning Accounting Principles, Concepts and Conventions<br>CO-2: Learning double entry system<br>CO-3: Learning development of Finals Accounts, Computerized Final Accounts<br>CO-4: Learning use of Accounting Package Tally |
| **Paper Code- **SIT- 401**<br>**Paper Name- Summer Industrial Training** | CO-1: Student is able to construct the company profile by compiling the brief history, management structure, products / services offered, key achievements and market performance for his / her organization of internship.<br>CO-2: For his / her organization of internship, the student is able to assess its Strengths, Weaknesses, Opportunities and Threats (SWOT).<br>CO-3: Student is able to determine the challenges and future potential for his / her internship organization in particular and the sector in general.<br>CO-4: Student is able to test the theoretical learning in practical situations by accomplishing the tasks assigned during the internship period. |
| **Semester-V** | |
| **Paper Code- *GEN 501** | CO-1: Students will learn how to calculate and apply measure of location and measure of dispersion –grouped and ungrouped data cases |

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| **Paper Name-**<br>**Critical Thinking and Elementary Studies** | CO-2: Students will be able to compute and interpret the result of bivariate and multivariate regression and correlation analysis<br>CO-3: Students will recognize and appreciate the connection between theory and applications<br>CO-4: Students will be able to communicate key statistical concept to non statisticians |
| **Paper Code-SD 302**<br>**Paper Name-Software Engineering and Quality Assurance** | CO-1. Students can manage the project by using techniques available<br>CO-2.Go for Managers and team leaders<br>CO-3. Project builders can be developed |
| **Paper Code- SD 304**<br>**Paper Name-ASP.NET using C#** | CO-1: Help students to explain how to create dynamic Web pages by using ASP.NET.<br>CO-2: To configure an ASP.NET application by using .config files<br>CO-3: To create a user interface on an ASP.NET page by using standard Web server controls.<br>CO-4: To create a user control and a custom server control and add them toan ASP.NET page.<br>CO-5: Able to create your own Website enhanced by using Master pages and Themes.<br>CO-6: To find and eliminate bugs in an ASP.NET application.<br>Display dynamic data from a data source by using ADO.Net and data binding.<br>Maintaining State management throughout the Application. |
| **Paper Code- SD 305**<br>**Paper Name-**<br>**Linux Operating System** | CO-1: Learning Linux basics<br>CO-2: Understanding I/O Redirection and Piping, Process Managementand Vi editor<br>CO-3: Learning Shell Programming<br>CO-4: Understanding System Administration activities. |
| **Semester-V** | |
| **Paper Code- *GEN501**<br>**Paper Name- Critical Thinkingand Elementary Studies** | CO-1. Students will learn how to calculate and apply measure of location and measure of dispersion –grouped and ungrouped data casesCO-2. Students will be able to compute and interpret the result of bivariate and multivariate regression and correlation analysis<br>CO-3. Students will recognize and appreciate the connection between theory and applications |

| Course | Outcomes |
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| **Paper Code-SD 308**<br>**Paper Name-E-Commerce**<br>business, shopping applications. | CO-1.to inculcate employment skills by teaching e commerce as a subject<br>CO-2To facilitate the students regarding development for the with Online |
| **Paper Code-SD 309**<br>**Paper Name-Emerging Technologies in Computing** | CO-1: To analyze, design, implement, and evaluate a computer-based system, process,component, or program to meet desired needs.<br>CO-2: To identify problems and formulate solutions for systems and organizations while reconciling conflicting objectives and finding compromises.<br>CO-3: To communicate effectively with a range of audiences.<br>CO-4: To work effectively as part of a team to develop and deliver quality software artifacts. |
| **Paper code- SD 310**<br>**Paper name- Network management** | CO-1: Study the basic taxonomy and terminology of the computer networking and enumerate the layers ofOSI model and TCP/IP model.<br>CO-2: Study Physical layer design issues, its functions andprotocols.<br>CO-3: Study Session layer design issues, Transport layer services, andprotocols.<br>CO-4: Acquire knowledge of Application layer and Presentation layer paradigms and protocols.<br>CO-5: Gain core knowledge of Network layer routing protocols and IPaddressing.<br>CO-6: Study data link layer concepts, design issues, and protocols. |
| **Paper code- SD 311**<br>**Paper name- PHP Programming** | CO-1: Learning PHP and developing forms using PHP<br>CO-2: Overall Objective to learning Website Development. |
| **Paper code- SIT 601**<br>**Paper name- Summer training** | CO-1: Student is able to construct the company profile by compiling the brief history, management structure,products / services offered, key achievements and market performance for his / her organization of internship.<br>CO-2: For his / her organization of internship, the student is able to assess its Strengths, Weaknesses, Opportunities and Threats (SWOT).<br>CO-3: Student is able to determine the challenges and future potential for his / her internship organization in particular and the |

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| | sector in general.<br>CO-4: Student is able to test the theoretical learning in practical situations by accomplishing the tasks assignedduring the internship period. |

| **Course Outcomes PGDCA** | |
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| **Course** | **Outcome** |
| **Paper Code-PGD-1101**<br>**Paper Name- Computer Fundamentals** | CO-1: Understand the fundamental hardware components that make up acomputer's hardware and the role of each of these components<br>CO-2: Understanding the concept of input and output devices of Computersand how it works.<br>CO-3: Describe the organization and operation of a computer processor, primary and secondary memory, and peripheral devices and to give computers specifications.<br>C0-4: Provide hands-on use of Microsoft Office 2010 applications Word, Excel, Access and PowerPoint. Completion of the assignments will resultin MS Office applications knowledge and skills.<br>CO-5: Understand the difference between an operating system and an application program, and what each is used for in a computer. |
| **Paper Code-PGD-1102**<br>**Paper Name-Computer Programming Using C** | CO-1:Students learn how build an algorithm for problems<br>CO-2: Students learn basics of logic development using C-language CO-3: Enable students to create pictorial representations of the program<br>CO-4: Enhance students programming concepts and learn basics of file handling. |
| **Paper Code-PGD-1103** | CO-1: The key goal is to prepare students for a professional career in the field of data |

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| **Paper Name-Data Base Management System** | administration and database design.<br>CO-2: To get acquaint students with good knowledge of DBMS. During the course, students will learn about database design and database handling activities.<br>CO-3: Learn how to develop a detailed specification for an information system that can fulfill these requirements. |

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| | CO-4: Understand that the successful systems analyst needs to have a broad understanding of organizations, organizational culture, organizational change, organizational operations, and business processes. |
| **Paper Code-PGD-1104**<br>**Paper Name-Data Communication and Networks** | CO-1: Study the basic taxonomy and terminology of the computer networking and enumerate the layers of OSI model and TCP/IP model.<br>CO-2: Study Physical layer design issues, its functions andprotocols.<br>CO-3: Study Session layer design issues, Transport layer services, and protocols.<br>CO-4: Acquire knowledge of Application layer and Presentation layer paradigms and protocols.<br>CO-5: Gain core knowledge of Network layer routing protocols and IP addressing.<br>CO-6: Study data link layer concepts, design issues, and protocols. |
| **Paper Code-PGD-PR-1105**<br>**Paper Name-Lab I Based on PGD-1102 AND PGD-1101** | CO-1: Develops the ability to analyze a problem, develop an algorithm to solve it.CO-2:Develops the use of the C programming language to implement various algorithms<br>CO-3: Develops the basic concepts and terminology of programming in general.<br>CO-4: Completion of the assignments will result in MS Office applications knowledge and skills.<br>CO-5: To introduce Basic Unix general purpose Commands. |
| **Paper Code-PGD-PR-1106**<br>**Paper Name-Lab Based on PGD-1103** | CO-1: Knowledge & Understanding : Databases and their design & development<br>CO-2: Intellectual Cognitive/ analytical skills: Normalization ofDatabases.<br>CO-3: Practical Skills: Using SQL and PL/SQL.<br>CO-4: Transferable skills: Usage of DBMS design and administration.<br>CO-5: Gather data to analyze and specify the requirements of asystem. |

| **Course** | Outcomes<br>PO-1: Students can go for logic development using various languageslike C, Java<br>PO-2: Develop Database Management and Website Development SkillsPO-3: Basic Understanding of Computer Based accounting |
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| **PGDCA SEMESTER-II** | |

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| **Paper Code-PGD-2101 Paper Name-Object Oriented Concepts usingJAVA** | CO-1: Students learn OOPs concepts develop Programs in Java programming using these concepts like Classes, Objects, Inheritance and Polymorphism etc.CO-2: Learning implementation of Interfaces, Packages, Multithreadingand Applet Programming |
| **Paper Code-PGD-2102Paper Name-Web Technologies** | CO-1: Understanding basics of HTML<br>CO-2: Learning fundamentals of JavaScript's and JavaScript objects<br>CO-3: Learning PHP and developing forms using PHP<br>CO-4: Overall Objective to learning Website Development. |
| **Paper Code-PGD-2103Paper Name-Software Engineering** | CO-1: Learning Software Engineering Fundamentals and SoftwareProcess Models<br>CO-2: Understanding Software Project Management, Software ProjectEstimation and Risk Management<br>CO-3: Learning Software Design Process and various Structured Analysis and Design tools<br>CO-4: Learning various types of Software Testing processes and assuring Software Quality and Maintenance |
| **Paper Code-PGD-2104 Paper Name-ComputerBased Accounting** | CO-1: Learning Accounting Principles, Concepts and Conventions<br>CO-2: Learning double entry system<br>CO-3: Learning development of Finals Accounts, Computerized FinalAccounts<br>CO-4: Learning use of Accounting Package Tally |
| **Paper Code-PGD-PR-2105 Paper Name- Lab 3 (Practical based on PGD-2101)** | CO-1: development of JAVA programs using concepts learned in PGD-2101 |
| **Paper Code-PGD-PR-2106 Paper Name-Lab 4 (Practical based on PGD-2102)** | CO-1: development of Web Applications using HTML, JavaScript andPHP using concepts learned in PGD-2102 |
| **Paper Code-PGD-2107Paper Name-Project Work** | CO-1: Developing Major Project on any database application using anydatabase development tool is to be developed/ Development of a Website using Database Connectivity |
| **B.Sc.(Computer Applications)** | |
| **Semester-I** | |
| **Paper Code-CA01Paper Name-Fundamentals of IT** | CO-1: Learning Basic Computer fundamentals and Use of Programming Fundamentals<br>CO-2: Understanding Number System and Character Codes, Operating System using DOS and Windows |
| **Paper Code- CA02 Paper Name-Application Software** | CO-1: Learning Word Processing using Microsoft Word and concepts of Working with spreadsheets using MicrosoftExcel<br>CO-2: Learning Presentation Software e.g. Microsoft PowerPoint<br>CO-3: Learning concepts of working with Databases |

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| **Paper Code- PCA01 Paper Name- PracticalBased on CA01 and CA02** | CO-1: Learning Practical use of computers<br>CO-2: Learning MS Word, MS Excel, MS PowerPoint and DatabaseCreation |
| **Semester-II** | |
| **Paper Code- CA03 Paper Name- C Programming Language** | CO-1: Learning history of C, Basic structure of C and Fundamentals ofC Language<br>CO-2: Learning Control Constructs, Preprocessors, Functions<br>CO-3: Learning Arrays,Strings, Pointers, Structures in C<br>CO-4: Learning File Handling in C |
| **Paper Code- CA04 Paper Name- Operating System Concepts** | CO-1: Learning various types of Operating Systems<br>CO-2: Learning process management<br>CO-3: Learning Deadlock Handling<br>CO-4:Learning Memory Management techniques, File system and |
| | Device Management |
| **Paper Code- PCA02 Paper Name- PracticalBased on CA03** | CO-1: development of C programs using concepts learned in CA03 |
| **Semester-III** | |
| **Paper Code- CA05 Paper Name- Programming in C++** | CO-1: Learning Object Oriented Concepts and C++ basics<br>CO-2: Learning implementation of Classes, Objects, Constructors andDestructors, Functions, Arrays in C++<br>CO-3: Learning Inheritance, Polymorphism, Console I/O operations<br>CO-4 : Learning File Handling in C++ |
| **Paper Code- CA06 Paper Name- Web Designing** | CO-1: Learning basic Web terminology and various concepts underHTML like lists, tables, images, links, frames, CSS etc.<br>CO-2: Understanding basic concepts and built-in objects in JavaScript<br>CO-3: Creating WebPages using Dreamweaver |
| **Paper Code- PCA03 Paper Name- Practical Based on CA05 andCA06** | CO-1: development of C++ programs using concepts learned in CA05CO-2: Creating WebPages using HTML, JavaScript<br>CO-3: Creating WebPages in Dreamweaver |
| **Semester-IV** | |
| **Paper Code- CA07 Paper Name- Data Structure** | CO-1: Learning basic concepts of Data Structure<br>CO-2: Learning various operations on different Data Structures like Arrays, Linked Lists, Stacks, Queues, Trees and Graphs.<br>CO-3: Understanding various types of Searching techniques<br>CO-4: Understanding various types of Sorting techniques |
| **Paper Code- CA08 Paper Name- Java Programming** | CO-1: Students learn OOPs concepts develop Programs in Java using these concepts like Classes, Objects, Inheritance, and Polymorphism etc.<br>CO-2: Learning implementation of Interfaces, Packages, Multithreading<br>and Applet Programming |
| **Paper Code- PCA04 Paper Name- PracticalBased on** | CO-1: development of Java programs using concepts learned in CA07CO-2: development of C++ programs for operations on various Data Structures learned in CA08 |

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| **CA07 and CA08** | |
| **Semester-V** | |
| **Paper Code- CA09 Paper Name- Programming with VB .NET** | CO-1: Understanding Visual Studio .NET IDECO-2: Understanding Basics of VB .Net<br>CO-3: Learning Procedures, Arrays, Strings and Designing Menus in VB .Net<br>CO-4: Working with Data and ADO .NET |
| **Paper Code- CA10 Paper Name- Database Management using Oracle** | CO-1: Learning Basic Database Concepts<br>CO-2: Understanding DDL, DML, DCL,TCL commands under SQL<br>CO-3: Managing Privileges, Learning various Functions, Joins, and SETOperators in SQL<br>CO-4: Leaning PL/SQL Basics, Cursor Management, ExceptionHandling and Exceptions in PL/SQL |
| **Paper Code- PCA05 Paper Name- PracticalBased on CA09 and CA10** | CO-1: development of VB .Net programs using concepts learned inCA09<br>CO-2: Managing database using SQL and PL/SQL learnt in Ca10 |
| **Semester-VI** | |
| **Paper Code- CA11 Paper Name- Computer Networks** | CO-1: Understanding Computer Networks and its applications CO-2: Understanding Data Communication, Network Devices<br>CO-3: Understanding Network Models |

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| **B.A.(Computer Science)** | |
| **Semester-I** | |
| **Paper Code- CS01Paper Name- Computer Fundamentals** | CO-1: Learning Basic Computer fundamentals and Use of Programming Fundamentals<br>CO-2: Understanding Number System and Character Codes, Operating System using DOS and Windows |
| **Paper Code- CS02 Paper Name- PC Software** | CO-1: Learning Word Processing using Microsoft Word and concepts of Working with spreadsheets using MicrosoftExcel<br>CO-2: Learning Presentation Software e.g. Microsoft PowerPoint<br>CO-3: Learning concepts of working with Databases |
| **Paper Code- PCS01 Paper Name-Practical Based on Paper CS01** | CO-1: Learning Practical use of computers<br>CO-2: Learning MS Word, MS Excel, MS PowerPoint and DatabaseCreation |

| Semester-II | |
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| **Paper Code- CS03 Paper Name- Operating System Concepts** | CO-1: Learning various types of Operating Systems<br>CO-2: Learning process management<br>CO-3: Learning Deadlock Handling<br>CO-4:Learning Memory Management techniques, File system and Device Management |
| **Paper Code- CS04 Paper Name- C Programming Language** | CO-1: Learning history of C, Basic structure of C and Fundamentals ofC Language<br>CO-2: Learning Control Constructs, Preprocessors, Functions<br>CO-3: Learning Arrays,Strings, Pointers, Structures in C<br>CO-4: Learning File Handling in C |

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| **Paper Code- PCS02 Paper Name- PracticalBased on Paper - CS04** | CO-1: development of C programs using concepts learned in CS04 |
| **Semester-III** | |
| **Paper Code- CS05 Paper Name- Computer Organization** | CO-1. TO inculcate the skills of computer components and their connectivity<br>CO-2. Presenting the students the skill of buses and architectures |
| **Paper Code- CS06 Paper Name- Object Oriented Programming using(C++)** | CO-1: Learning Object Oriented Concepts and C++ basics<br>CO-2: Learning implementation of Classes, Objects, Constructors andDestructors, Functions, Arrays in C++<br>CO-3: Learning Inheritance, Polymorphism, Console I/O operations<br>CO-4 : Learning File Handling in C++ |
| **Paper Code- PCS03 Paper Name- Practical Based on Paper CS06** | CO-1: development of C++ programs using concepts learned in CS06 |
| **Semester-IV** | |
| **Paper Code- CS07 Paper Name- Database Concepts** | CO-1: Learning Basic Database Concepts<br>CO-2: Understanding DDL, DML, DCL,TCL commands under SQL<br>CO-3: Managing Privileges, Learning various Functions, Joins, and SETOperators in SQL<br>CO-4: Leaning PL/SQL Basics, Cursor Management, Exception Handling and Exceptions in PL/SQL |
| **Paper Code- CS08 Paper Name- Data Structures** | CO-1: Learning basic concepts of Data Structure<br>CO-2: Learning various operations on different Data Structures like Arrays, Linked Lists, Stacks, Queues, Trees and Graphs.<br>CO-3: Understanding various types of Searching techniques |

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| | CO-4: Understanding various types of Sorting techniques |
| **Paper Code- PCS04 Paper Name- PracticalBased on Paper CS08** | CO-1: development of C++ programs for operations on various Data Structures learned in CS08 |
| **Semester-V** | |
| **Paper Code- CS09 Paper Name- Project Management** | CO-1: Students can manage the project by using techniques available<br>CO-2: Go for Managers and team leaders<br>CO-3: Project builders can be developed |
| **Paper Code- CS10 Paper Name- Relational Database Management** | CO-1: To have a broad understanding of database conceptsand database management system software<br>CO-2: To have a high-level understanding of major DBMS components and their function<br>CO-3: To be able to model an application's data requirementsusing conceptual modeling tools like ER diagrams and design database schemas based on the conceptual model.<br>CO-4: To be able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS.<br>CO-5: To be able to program a data-intensive application using DBMS APIs. |
| **Paper Code- PCS05 Paper Name- PracticalBased on Paper CS10** | CO-1: Managing database using SQL and PL/SQL learnt in CS10 |
| **Semester-VI** | |
| **Paper Code- CS11 Paper Name- E-Commerce** | CO-1: To inculcate employment skills by teaching e commerce as a subject<br>CO-2: To facilitate the students regarding development for the with Online business, shopping applications. |
| **Paper Code- CS12 Paper Name- Web Programming** | CO-1: Learning basic Web terminology and various concepts underHTML like lists, tables, images, links, frames, CSS etc.<br>CO-2: Understanding basic concepts and built-in objects in JavaScript<br>CO-3: Creating WebPages using Dreamweaver |
| **Paper Code- PCS06 Paper Name- PracticalBased on Paper CS12** | CO-1: Practical implementation of basic concepts and built-in objects in JavaScript<br>CO-2: Creating WebPages using Dreamweaver |

| Semester-I | |
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| **Paper Code- A Paper Name- Computer Fundamentals** | CO-1: Learning Basic Computer fundamentals and Use of Programming Fundamentals<br>CO-2: Understanding Number System and Character Codes, Operating System using DOS and Windows |
| **Paper Code- C**<br>**Paper Name-Practical Based on A** | CO-1: Learning Practical use of computers<br>CO-2: Learning MS Word, MS Excel, MS PowerPoint and DatabaseCreation |
| **Semester-II** | |
| **Paper Code- B**<br>**Paper Name- Computer Programming using C** | CO-1: Learning history of C, Basic structure of C and Fundamentals ofC Language<br>CO-2: Learning Control Constructs, Preprocessors, Functions<br>CO-3: Learning Arrays,Strings, Pointers, Structures in C<br>CO-4: Learning File Handling in C |

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| | Device Management |
| **Paper Code- D**<br>**Paper Name-**<br>**Practicalon Paper-B** | CO-1: development of C programs using concepts learned in Paper-B |
| **Semester-III** | |
| **Paper Code- A**<br>**Paper Name-**<br>**Computer Programming using C++** | CO-1: Learning Object Oriented Concepts and C++ basics<br>CO-2: Learning implementation of Classes, Objects, Constructors andDestructors, Functions, Arrays in C++<br>CO-3: Learning Inheritance, Polymorphism, Console I/O operations<br>CO-4 : Learning File Handling in C++ |
| **Paper Code- C**<br>**Paper Name-**<br>**Practical**<br>**on Paper-A** | CO-1: development of C++ programs using concepts learned in Paper-A<br>CO-2: Creating WebPages using HTML, JavaScript<br>CO-3: Creating WebPages in Dreamweaver |
| **Semester-IV** | |
| **Paper Code- B**<br>**Paper Name-**<br>**Data Networks and Web Based Applications** | CO-1: Understanding Computer Networks and its applications CO-2: Understanding Data Communication, Network Devices<br>CO-3: Understanding Network Models<br>CO-4: Learning basic Web terminology and various concepts underHTML like lists, tables, images, links, frames, CSS etc.<br>CO-5: Understanding basic concepts and built-in objects in JavaScript<br>CO-6: Creating WebPages using Dreamweaver |
| **Paper Code- D**<br>**Paper Name-**<br>**Practicalon Paper-B** | CO-1: development of programs using concepts learned in Paper-B |
| **Semester-V** | |

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| **Paper Code- A**<br>**Paper Name-**<br>**Database System and VB.NET** | CO-1: Learning Basic Database Concepts<br>CO-2: Understanding DDL, DML, DCL,TCL commands under SQL<br>CO-3: Managing Privileges, Learning various Functions, Joins, and SETOperators in SQL<br>CO-4: Understanding Visual Studio .NET<br>IDECO-5: Understanding Basics of VB<br>.Net<br>CO-6: Learning Procedures, Arrays, Strings and Designing Menus in VB<br>.Net<br>CO-7: Working with Data and ADO .NET |
| **Paper Code-C**<br>**Paper Name-**<br>**Practical on Paper-C** | CO-1: development of VB .Net programs using concepts learned inCA09<br>CO-2: Managing database using SQL and PL/SQL learnt in Ca10 |
| **Semester-VI** | |
| **Paper Code- B**<br>**Paper Name- Linux Administration** | CO-1: Learning Linux basics<br>CO-2: Understanding I/O Redirection and Piping, Process Managementand Vi editor<br>CO-3: Learning Shell Programming<br>CO-4: Understanding System Administration activities |
| **Paper Code- PCA06**<br>**Paper Name-Minor Project Based on VB.Net, Linux** | CO-1: Practically executing Linux commandsCO-2: Development of simple shell programs<br>CO-3: development of VB .Net programs using concepts learned |

# R.S.D. COLLEGE

**FEROZEPUR CITY (152002)**

## FACULTY OF ARTS & LANGUAGES

# Programme Outcomes (POs)

**and**

# Course Outcomes (COs)

# DEPARTMENT OF ECONOMICS

## Course Outcomes of B.A.

| Course | **Outcomes**<br>After completion of these course, students should be able to**;** |
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| SEMESTER<br>-I | |
| **Microeconomics** | CO 1- Understanding about classical and modern economists.<br>CO 2- Understanding about the difference between Sciences and Social Sciences.<br>CO 3- Analyze various micro concepts of Economics like Demand, Supply,production, Rent, Wages, Interest, Profit etc.<br>CO 4- Awareness about different markets such as Monopoly, Perfect Competition, Monopolistic Competition, Oligopoly.<br>CO 5- Apply the knowledge in understanding the actual market situations. |
| Semester II | |
| **Macroeconomics** | CO 1- Differentiate between Micro and Macro Economics.<br>CO 2- Understanding about the Consumption Function, National Income,Per capita Income, Unemployment, Inflation and many more concepts.<br>CO 3- Understanding about the various policies and its implementation in economy.<br>CO 4- Able to interpret the economic position of an economy by analyzing the available data.<br>CO 5- Understanding of inflation, how it effects the economy.<br>CO 5- Apply the knowledge in understanding the actual market situations. |
| **Semester II** | |
| **Public Finance and International Economics** | CO 1- Differentiate between Public and private finance and their usage.<br>CO 2- Understanding about theories of public finance and how it effects economic decisions.<br>CO 3- Analyzing the relevance of taxes in an economy and role of the Government in smooth functioning of an economy.<br>CO 4- Understanding of International Trade, trade barriers, Balance of Payments, Balance of Trade, disequilibrium in terms of Trade etc.<br>CO 5- Analyzing the current economic relations of Indian Economy with respect to other countries. |
| **Semester IV** | |

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| Quantitative Methods | CO 1- Understanding the various terms of mathematics and their applications.<br>CO 2- Understanding about matrices, differentiation and its application in business economics.<br>CO 3- Understanding of mathematics and statistics simultaneously.<br>CO 4- Understand about the Calculations of Mean, Median, Measure of Dispersion and Skewness.<br>CO 5- Describing the components of time series, apply time series analysis in business scenarios, illustrate the different types of index numbers, and calculate index numbers. |
| **Semester V** | |
| Development Economics | CO 1- Differentiate between National Income and real national Income, Per capita Income and Real per capita Income.<br>CO 2- Differentiate between Growth and development. |
| | CO 3- Understanding the various growth models given by different economists and their relevance in economy.<br>CO 4- Able to understand about how growth can be promoted in an economy.<br>CO 5- Understanding about the relevance of planning in an economy. |
| **Semester VI** | |
| Indian Economy | CO 1- Understanding Indian Economy before and after Independence.<br>CO 2- Understanding and analyzing the worth of LPG in present context.<br>CO 3- Analyzing the difference between Planning Commission and NITI Aayog and its effects on Indian Economy.<br>CO 4- Relevance of planning in an economy.<br>CO 5- Understanding of basic structure of an economy and contribution of different sectors in economy. |

## DEPARTMENT OF HISTORY

## Course Outcomes of B.A. (history)

| **Course** | **Outcomes**<br>After completion of this course students should be able to; |
|---|---|
| **Semester-I** | |
| **History of India upto 1200 A.D.** | CO-1. Understand the major sources of Ancient Indian history.<br>CO-2.Understand the salient features of Indus valley civilization.<br>CO-3.Understand the vedic culture ,society ,economy ,polity and religion.<br>CO-4.Evaluate the features of Buddhism and Jainism.<br>CO-5.Visualize the administration of Mauryas and the Dhamma of Ashoka.<br>CO-6.Identify the achievements of Gupta Empire and their cultural and scientific developments.<br>CO-7.Know about the Pallava ,Chola and Pandya |

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| | dynasties.CO-8.Understand about the origion of Rajputs.<br>CO-9.Understand the important ancient historical places on map of India and extent of Mauryan Empire. |
| **Semester-II** | |
| **History of India 1200-1750 A.D.** | CO-1. Understand the foundation of the Delhi sultanate and the Sultanate administration.<br>CO-2.Recognise the Socio, economic and religious conditions under Vijayanagar Empire.<br>CO-3. Identify the condition of India under the Mughal Empire.<br>CO-4. Explain the Administration and decline of Mughals.<br>CO-5.Analyse the rise of the Marathas and the contribution of Shiva ji.<br>CO-6.Understand the important historical places of medieval India on map of India. |
| **Semester-III** | |
| | CO-2.Evaluate the various causes of revolt of 1857 and its results.<br>CO-3.Understand the British agrarian policies and deindustrialization.<br>CO-4.Understand about the Socio-religious reform movements in 19th century.<br>CO-5. State the role of moderates and extremists in the freedom movement.CO-6.Discuss the making of new constitution.<br>CO-7.Understand the important historical places of Modern India on map of India. |
| **Semester-IV** | |
| History of Punjab 1469-1849A.D. | CO-1. Understand the foundation of sikh religion.<br>CO-2. Evaluate the life and teachings of Guru Nanak Dev ji.<br>CO-3. Understand the contribution all guru in spread of Sikhism.<br>CO-4. Explain the region of Maharaja Ranjit Singh.<br>CO-5. Understand the role of Banda Bahadur in history of Punjab andMisil period history.<br>CO-6 Understand the important historical places of Punjab on the map of Punjab |
| Semester-V | |

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| History of Punjab<br>1849-1966 | CO-1 Explain the British administration after the annexation of Punjab<br>CO-2 Understand the British agrarian policies.<br>CO-3 Understand the introduction of modern education.<br>CO-4 Learn about the socio-religious activities.<br>CO-5 Explain the growth of political consciousness.<br>CO-6 Understand the formation of Punjabi suba and reorganization act1966.<br>CO-7 Understand about the historical places of Punjab. |
| **Semester-VI** | |
| World History 18th to 20th century | CO-1Understand the rise of modern world.<br>CO-2 Evaluate the American revolution and French revolution.<br>CO-3 Discuss the rise of new type of imperialism in the world.<br>CO-4 Understand the division of Europe into two parts and World War-I.<br>CO-5 Evaluate the World War-II and modernization of China and Japan.CO-6 Identify World Historical places on map of World.<br>CO-7 Discuss the role of napoleon in the world political system.<br>CO-8 Understand the major events of unification Italy and Germany. |

## DEPARTMENT OF PHYSICAL-EDUCATION

## Course Outcomes of B.A. (physical-education)

| **Course** | **Outcomes**<br>After completion of this course students should be able to; |
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| **Semester-I** | |
| **Physical Education paper code- 0138** | CO-1.Know About pre and post independence development of physical eduction in India.<br>CO-2.Comprehensive knowledge about ancient Olympic games & modern Olympic games, Common wealth and Asian games.<br>CO-3.Complete knowledge about the various schemes in sports and their function.<br>CO-4.Improved knowledge of rules and regulation of handball. |
| **Semester-II** | |
| **Physical Education paper code- 0138** | CO-1.Comprehensive knowledge about anatomy and physiology of muscular system.<br>CO-2.Learn about the importance of warming-up and cooling down in sports and its significance. |

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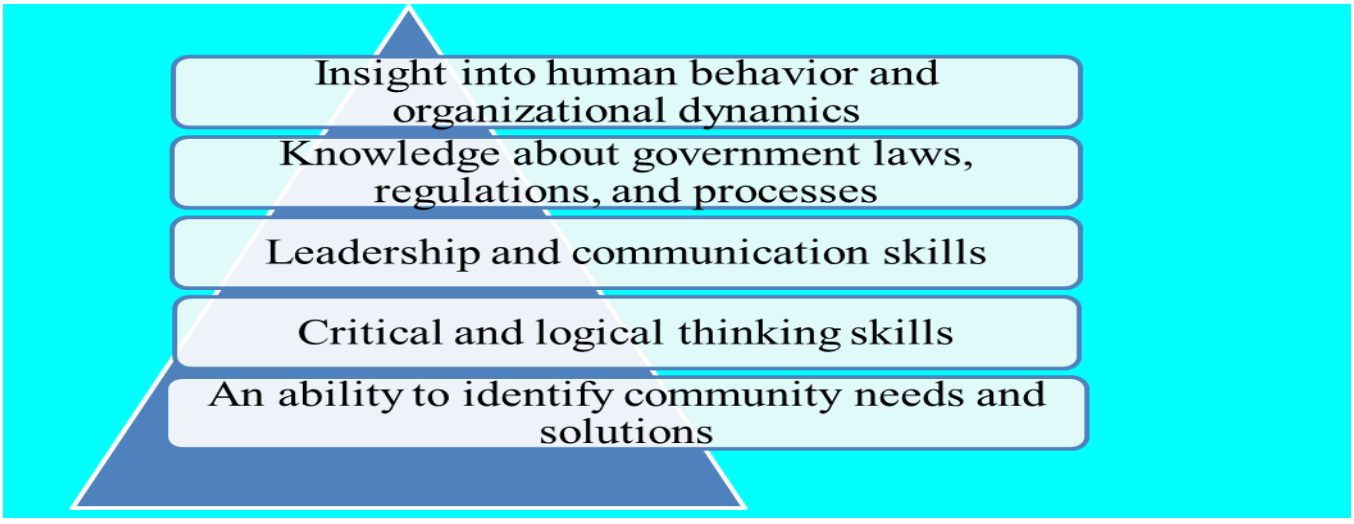
| | CO-3.Learn about components of physical fitness.<br>CO-4.Complete knowledge about the importance of health education in our daily life<br>CO-5.Understand the biological basis of physical education. |
| **Semester-III** | |
| **Physical Education paper code- 0338** | CO-1.Able to know psychological characteristics and identify problem of adolescence.<br>CO-2.To know about importance of motivation in physical education and sports.<br>CO-3.Learn about various factors affecting the development of personality.<br>CO-4.Learn about measurement and layout of field.<br>CO-5.Learn basic fundamentals of softball. |
| **Semester-IV** | |
| **Physical Education paper code- 0338** | CO-1.Comprehensive Knowledge about anatomy and physiology of different human organ like circulatory, respiratory and digestive system.<br>CO-2.Know about the basic fundamental about tennis.<br>CO-3.Know about the importance of yoga.<br>CO-4.Know about basic of common sports injuries and their remedies.<br>CO-5.Know about the problem of disable person and their physical activities. |
| **Semester-V** | |
| **Physical Education paper code- 0535** | CO-1.Knowledge about various theories of play and significant in physical education and sports.<br>CO-2.Understanding the meaning, importance and conduct of intramural and extramural competition.<br>CO-3.Know about draw of fixtures of various tournaments.<br>CO-4.Understanding the meaning of physical deformities and their remedies.<br>CO-5.Learn about effects of massage on skin, blood circulation, nervous system and muscles. |
| **Semester-VI** | |
| **Physical Education paper code- 0535** | CO-1. Structural and functional knowledge about, nervous system, excretory system and endocrine system.<br>CO-2. Know about effects of physical exercises on muscular, respiratory and circulatory systems of the body.<br>CO-3..Knowledge about career options in physical education.<br>CO-4.Learn about qualification and characteristics of a coach. |

# DEPARTMENT OF POLITICAL SCENCE

## Course Outcomes of B.A. (political science)

There are a variety of career opportunities available for Political Science students.




| Course | Outcomes<br>After completion of this course students should be able to; |
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| **Semester-I** | |

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|---|---|
| Fundamentals of Sociology | Student will be able to explain social facts and society relatesconcepts.<br>Student will be able to define and explain social concepts, social facts and express empirical observations with sociology concepts.Student will be able to define and explain main characteristics of social institutions.<br>Student will be able to convey the historical development ofsociology.<br>It also provides a foundation for the other more derailed andspecialized course in sociology. |
| **Semester-II** | |
| **Social Stratification** | Student will be able to explain the basic concepts and theories of social stratification and inequality.<br>Student will be able to identify stratification systems of different historical eras.<br>Student will be able to classify the social stratification theories and define their basic features.<br>Student will be able to analyse the social mobility and social class relations in modern industrial and/or post-industrial societies.<br>Student will be able to identify the reasons for social inequalities in industrial and/or post-industrial societies.<br>Student will be able to discuss the hierarchical differentiations |
| | manifested by social inequalities.<br>Student will be able to compare different forms of social inequalities such as social class, gender, "race" and ethnicity.<br>Student will be able to develop a theoretical and methodological framework for analysing social inequalities. |
| **Semester-III** | |
| **Social Structure & Social Change** | Student will be able to know how social structure is composed ofsocial institutions and pattern of institutionalized relationships.<br>Student will also understand social structure as present in the social networks that connect us, and in the interactions that fill our everyday lives.<br>Student will be able to explain the meaning and types of socialchange.<br>Student will be able to describe the forms of social changes. Student will be able to understand the process of social change.Student will be able to explain human development, social development sustainable development. |
| **Semester-IV** | |

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| Social Institutions | Student will be able to describe the issues and challenges related tocaste, religion and gender in India and outline the challenges of the health and education sector in India.<br>Student will be able to explain the role of religion and caste in contemporary Indian society in the context of political and social movements.Discuss the role of media in contemporary India.<br>Student will be able to examine the transformations in social institutions like caste, religion,family, marriage and gender in thecontext of modernisation in India.<br>Student will be able to analyse the intersection of social, political and economic factors and its impact on class and caste realities. Explainhow the sociopolitical context impacts education Student will be ableto evaluate the elements of continuity and change pertaining to class,caste and religion in India. Assess the role of the media in contemporary society.<br>This course provides a brief account of the classical approaches to the study of family and kinship. It exposes the students to the distinctaspects of these three interrelated institutions in the Indian context. Finally, it discusses some contemporary issues that pose challenge<br>to the normative model of these institutions.and the public healthsector. |
| **Semester-V** | |
| Society in India | The course introduces the students with the concept of tribal, ruraland urban society.<br>Student will be able to develop an understanding about classificationof tribal people, rural people and urban people . |
| | Student will be able to define socio culture profile: Ethic and cultural diversity.<br>Student will be able to learn about tribal, rural and urban : society,family, marriage, kinship and languages.<br>Student will be able to know the problems faced by the tribal, ruraland urban people, their social mobility and change.<br>Student will be able to learn about tribal movement, panchayati rajsystem, slums and voluntary associations. |
| **Semester-VI** | |

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| Disorganization and Emerging Problem | Student will be able to understand the meaning, causes, consequences and forms of social disorganization.<br>Student will be able to learn about the theories explaining the disorganization situations.<br>Student will be able to comprehend the concept of crime and theexisting theories of punishment.<br>Student will be able to elaborate on Caste, Minorities, and Problemsin Modern India.<br>Student will be able to discuss Dowry death and legislation. Student will be able to elaborate Poverty and poverty elevationprogrammers.<br>Student will be able to explain unemployment, types and remedies.<br>Student will be able to describe child and woman labour problem and legislation.<br>Student will be able to understand violence against women, meaningand provision for remedies. |

# DEPARTMENT OF PUBLIC ADMINISTRATION

## Course Outcomes of B.A. (Public administration)

| Course | Outcomes<br>After completion of this course students should be able to; |
|---|---|
| Semester-I | |
| Paper: Administrative Theory | CO-1. The students enable to understand nature, basic concepts and principles of public administeration.<br>CO-2. The students enable to trace the evolution of Public Administration and its relationship with other social sciences.<br>CO-3. To discuss the Governmental organization types and forms and Importance.<br>CO-4. Discuss the Chief Executives of World ,its types and functions CO-5. To understand the Line and staff agencies , Centralisation and Decentralisation and their importance.<br>CO-6. Explain the management techniques like, Leadership, Supervision, Co- ordination, Communication and Decision Making etc. |
| Semester-II | |
| Paper:<br>Indian Administration | Co-1. Understanding the Federal Nature of Indian Administration.<br>CO-2.Evaluating the structure of government at the Central Level.<br>CO-3.Understanding the working of Indian Parliament.<br>CO-4. Evaluating the structure of government at the state Level.<br>CO-5. Explaining the Indian Federalism through Centre-State administrative, Legislative and Financial relations<br>CO-6. Detailed study of High Court and Supreme Court in India.<br>CO-7. Explaining working of Central Secretariat, State Secretariat and District Administration. |
| Semester-III | |

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| Paper:<br>Personnel Administration (with Special Reference India) | Co-1. Discuss the Nature Scope of Personnel administration.<br>CO-2. Evaluate the mechanism of Civil Services in India and CharacteristicsBureaucracy in India.<br>CO-3. Recruitment methods of Higher civil services in India and their Problems.<br>CO-4. Role and Function of UPSC and SPSC in India.<br>CO-5 Training and Promotion of Methods of Higher Civil Service in India.CO-6. Discuss Administrative Tribunals their advantages and disadvantages.<br>CO-7. Corruption in India, Ethics in Administration and measures to improve the moral among employees. |
| Semester-IV | |
| Paper:<br>Financial Administration (With Special Reference to India) | CO-1. To give the student an in-depth understanding of various aspects of Public Finance and Financial administration.<br>CO-2. Discuss the preparation, passing and execution of Budgeting India.<br>CO-3. To understand the composition and function of Finance Ministry and Finance Commission and Center-state financial relations.<br>CO-4. To explain the working of the Comptroller and Auditor General of India.<br>CO-5. To Understand how Parliament Controls over Public Finance.<br>CO-6. Explains the Concepts of Deficit Financing, Fiscal Deficit, Public Debtand Public Expenditure.<br>CO-7. To understand the Composition, Functions and Role of Public Accounts Committee and Estimates Committee. |
| Semester-V | |
| local Government (With Special Reference To Punjab) | CO-1. to give the student an understanding of the concept, significance and evolution of local government in India..<br>CO-2. It acquaint students with the pattern and working of divisional and district administration.<br>CO-3. Discuss the types, structure, functions, finances and personnel of rural local governments<br>CO-4 Discuss the types, structure, functions, finances and personnel of urban local governments<br>CO-5. Explains the concept of state control over local bodies, provincialisation and rural-urban relationship with reference to Punjab. |
| Semester-VI | |
| Paper:<br>Development Administration (With Special Reference To Punjab) | CO-1.To give the student an in-depth understanding about the concept & significance of development administration.<br>CO-2. Discuss the features of developed & developing countries,<br>CO-3. Analyse the planning machinery at Centre, State level and District Level.<br>CO-4. Explains the emergence of India as a welfare state.<br>CO-5. Understanding about the concept, forms, role and problems of public |

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| | enterprises<br>CO-6. To study the working of Role of State Administration in Primary and Secondary Education and Role of the Ministry of Health and Family Welfare.<br>CO-7. Administration of Rural Development and Role of Voluntary Sector in<br>Development |

B.A (Political Science) B.A.B.ED Integrated (Political Science)
Programme Outcomes: Political Scien

**B.A(Political Science) B.A.B.ED Integrated(Political Science)**

| Course: | Outcomes: |
|---|---|
| B.A<br><br>B.A.B.ED Integrated | A Bachelor degree in Political Science can lead to powerful careers in local and State Governments, law, International organizations, Non-Profit organizations, Campaign Management, Journalism, Research, University and College Education, Communication and Data analysis and Bureaucracy. |
| FIRST SEMESTER<br>Paper:Political Theory-l<br><br>B.A-0033<br><br>BABED-POLO11 | CO-1. Students enable to understand the nature and scope of Political theory.<br>CO-2. Students enable to understand the various traditional and modern theories of political science.<br>CO-3.Assessing the theories of State (Origin, Nature, Functions): Social Contract Theory with special Reference to Hobbes, Locke, Rousseau.<br>CO-4. Evaluating the theories of the State: Liberal and Neo-liberal Theory, Marxist theory and Gandhian theory.<br>CO-5. Analyzing the concept of Sovereignty of the State. Discussing Monistic Theory, Pluralistic Theory, Doctrine of Popular Sovereignty |
| SECOND SEMESTER<br><br>Paper:-Political Theory-ll<br><br>Sub-code:<br>1.B.A-0135<br><br>2.BABED-POLO21 | CO-1. To learn the origin of the concepts such as Power, Authority and Legitimacy.<br>CO-2. Accessing the concepts of Rights , Duties and their Relationship.<br>CO-3.Understanding basic concepts of Liberty, Equality and Justice.<br>CO-4. Analyzing the Concept of Democracy: Nature,Features and Critique.<br>CO-5. Examining the theory of Democracy: Elite & Marxist.] |
| THIRD SEMESTER<br>Paper:Indian Government & Politics | CO-1.Introducing the Indian Constitution with a focus on the role of the Constituent Assembly and examining the essence of The Preamble.<br>CO- 2. Examining the Fundamental Rights and Duties of Indian citizens with a study of the significance and status of Directive Principles.<br>CO-3.Assessing the nature of Indian Federalism with focus on Union-State Relations. |

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| Sub-code<br><br>1.B.A-0234<br>2.BABED-POLO32 | CO 4- Critically analyzing the important institutions of the Indian Union: The Executive: President; Prime Minister, Governor, Chief Minister and Council of Ministers; The legislature: Rajya Sabha, Lok Sabha, Speaker, State Legislature, The Judiciary: Supreme Court and the High Court.<br>CO-5. Students enable to know the salient features of Indian Constitution. |
| FOURTH SEMESTER<br><br>Paper:Indian Politics<br>Sub-code:<br><br>1. B.A-0334<br>2.BABEDPOLO42 | CO-1.Students enable to evaluate the evolution, functioning and Consequences of political parties & pressure groups in India.<br>CO-2.Critically evaluating the Indian Party system–its development and looking at the ideology of dominant national & regional parties.<br>CO-3 Evaluating the role of various forces on Indian politics: Religion, language, Caste, Regionalism.<br>CO-4 Evaluating the Electoral Process in India with focus on the Election Commission: Composition, Functions and Role.<br>CO-5.Examining Indian Foreign Policy: Basic Principles,Its determinants, Non alignment& its relevance<br>CO-6.(B.A.B.ED). Students enable to Understand the meaning of the E-Governance in India: Advantages and Disadvantages of E-governance. |
| FIFTH SEMESTER<br><br>Paper :Comparative PoliticalSystems(UK&USA<br>Sub-code<br>1.B.A-0426<br><br>2.BABEDPOLO53 | CO-1.Tracing the evolution of Comparative Politics as a discipline and drawing a distinction between Comparative Politics and Comparative Government.<br>CO-2.Investigating the nature and scope of Comparative Politics.<br>CO-3.Exploring the Constitution of UK: salient features; the executive–the Crown, Prime Minister and cabinet; the legislature: House of Lords, House Commons, speaker and Committees; Party System in UK.<br>CO-4. Exploring the US Constitution: salient features; the executive: President, Legislature: Senate, House of Representative, Speaker. Judiciary: The composition and role of the Supreme Court, Bill of Rights, Party System.<br>CO-5. Making a comparative analysis of the following institutions of UK and USA: Legislature, Executive and party systems. |
| SIXTH SEMESTER<br>Paper:-International Politics: Theory & Practice<br>Sub-code<br>1.B.A.0532<br>2.BABED-POLO63 | CO-1. Students enable to understand the evolution, scope and significance of international relations.<br>CO-2.Approaches and methods to study the discipline through Political realism & idealism.<br>CO-3.Students enable to demonstrate an understanding of: contemporary international system; and the key actors which shaped the international Politics i.e. National power, Balance of Power & Collective Security.<br>CO-4. Studying the developments in third world countries in post-world war II era like NAM: Relevance, ASEAN, SAFTA and SAARC, NIEO.<br>Co-5. Evaluating Bi-polar world order during cold war, Uni-polar world order & multi-polar world order after cold war |

## Department of Sociology

## Programme Outcomes & Program Specific Outcomes

**PROGRAMME OUTCOMES**

A Bachelor degree in sociology can lead to powerful careers in local and State Governments, law, International organizations, Non-Profit organizations, Campaign Management, Journalism, Research, University and College Education, Communication and Data analysis and Bureaucracy.

- The program seeks to introduce students to the major concepts of sociology and perspectives of sociology in such a way that even those who come from other disciplines and without any previous exposure to sociology could develop an interest in the subject and follow it.

- The program would enable the students to understand, critically analyze and interpret all aspects of human social behaviour, including the behaviour of individuals as well as the social dyna

| **Department of Mathematics** | After successful completion of three year degree program in Bachelor of Arts and B.Sc (N.M)student should be able to; |
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| **Programme Outcomes** | PO-1. Students gain knowledge in foundational areas of mathematics. It develops mathematical thinking. Students will be able to apply mathematical knowledge and be able to solve mathematical problems using technology. |
| **Programme Specific Outcomes** | |
| **Programme Specific Outcomes** | PSO-1. Aware the student about basic facts about mathematics.<br>PSO-2. Provide knowledge of conventions such as notations, terminology and recognize basic, geometrical figures and graphical displays.<br>PSO-3. Aware the student of history of mathematics and hence of itspast, present and future role as part of our culture.<br>PSO-4. A student should get a relational understanding of mathematical conceptsand should be able to follow the concepts of mathematical reasoning.<br>PSO-5. Enable the student to select and useappropriate mathematical formulae ortechniques for application area of mathematics |
| **Course Outcomes- B.A. and B.Sc (Mathematics)** | |
| **Semester-I** | |
| **Course** | **Outcomes**<br>After completion of these courses students should be able to; |

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| **Paper- I:**<br>**Plane**<br>**Geometry I** | CO-1 students will be able to learn about transformation of axis.<br>CO-2 Students will able to understand the tracing of different equations of conic section their polar equation , equation of tangent and normal.<br>CO-3 Understand the concept of pair of straight line.<br>CO-4Understand all the concepts to implement in real life<br>CO-5. Students will differentiate exponential , logarithmic , trigonometric and inverse trigonometric functions |
| **Paper-II :**<br>**Calculus I** | CO-1Students got to know about different properties of real no.<br>CO-2 Understand the concept of limit and continuity .<br>CO-3 Learn about hyperbolic functions and derivates.<br>CO-4 Student got to know about successive differentiation.<br>CO-5 Learn to use Leibnitz theorem to find higher order derivatives of product functions. |
| **Paper-III:**<br>**Trigonometry and Matrices** | CO-1 Students will able to learn about the polar representation of complex no ,D' Moivre's theorem and their application .<br>CO-2 Understand the concept of summation of series mainly Gregory 's series.<br>CO-3 Students will able to know about different kind of matrices, learn to calculate the row rank , column rank .<br>CO-4 Understand the theorems on consistency of system of linear homogeneous and non homogeneous equations.<br>CO-5 Understand to calculate Eigen values, Eigen function , characteristics equation |
| **Semester-II** | |
| **Paper-I**<br>**Solid Geometry** | CO-1.understand the concept of transformation of axis.<br>CO-2. To understand the geometrical concept of sphere and cylinder.<br>CO-3 To understand radical plane , radical axis of cone.<br>CO-4 student learn to find the different geometric figures. |
| **paper II**<br>**CALCULUS II** | CO-1Evaluate an indefinite integeral using integeration by parts .<br>CO-2Understand the concept of concavity, convexity ,point of inflection, multiple points and asymptote.<br>CO-3Student learn how to set up definite integeral to calculate the length ofcurve, area and volume<br>CO-4 Student can learn to trace a curve |
| **Paper III**<br>**Theory of equations** | CO-1.learned how to use fundamental theorem of algebra in real life.<br>CO-2.learned basic concept of Descarte's rule of sign.<br>CO-3. Learned how to solve cubic and B iquadratic equations using cardon's , descarte's and ferrari's method |

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| **Semester-III** |

| Course | Outcomes<br>After completion of these courses students should be able to; |
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| **Paper-I**<br>**Advance calculus I** | CO-1. The student is expected to learn about the basic principles of multi-variable calculus with proofs.<br>CO-2. To have full knowledge of calculus involving the fundamental toolssuch as continuity and differentiability.<br>CO-3. Students are able to find maxima , minima and saddle point of function.<br>CO-4. Students are able to effectively communicate mathematics: reading, writing, listening, and speaking. Students make effective use of the library, conduct research and make oral and written presentations of their findings.<br>CO-5. To gain knowledge about vector differentiation , Gradient , Divergence, curl and their application in real life. |
| **paper II-Differential Equation** | CO-1.Determine the solution of Orthogonal trajectories of differential equation.<br>CO-2.Acquire the idea of claurit equation for solving differential equation, singular solution .<br>CO-3.Understand the order ,degree and various standard forms of differential equations. |
| **Paper III**<br><br>**STATISTICS** | CO-1. An ability to construct free-body diagrams and to calculate the reactionsnecessary to ensure static equilibrium.<br>CO-2. An understanding of the analysis of distributed loads.<br>CO-3. A knowledge of internal forces and moments in members<br>CO-4 Understand the concept of friction . |

| **Semester-IV** |
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| **Paper-1 Advance calculus II** | CO-1. Determine if a geometric series is convergent or divergent.CO-2. Find the sum of a convergent geometric series.<br>CO-3. Determine if an infinite series is convergent or divergent by selectingthe appropriate test from the following: (a) test for divergence; (b) integral test; (c) p-series test; (d) the comparison tests; (e) alternating series test; (f) absolute convergence test; (g) ratio test; and (h) root test.<br>CO-4. Determine if an infinite series converges absolutely or conditionally<br>CO-5 Understand the concept of sequential continuity and uniform continuity. |
| **Paper II-Differential equation** | CO-1.Determine the solution of power series of differential equation.CO-2.Acquire the idea of lagrange's method for solving the first order linear partial differential equation.<br>CO-3.Understand the order ,degree and various standard forms ofdifferential equations.<br>CO-4.To know about the laplace transform. |
| **Paper III** | CO-1. Learned how to study simple harmonic motion.<br>CO-2. Learned how to trace curvilinear motion of particles in a plane.CO-3. Learn concept of work,power and energy. |

| **Semester-V** | |
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| **Course** | **Outcomes**<br>After completion of these courses students should be able to; |
| **Paper--I Analysis-I** | CO-1. Knowledge of continuity and uniform continuity.<br>CO-2. Concept ,application and calculation of Riemann IntegralsCO-3.Understanding of Beta and Gamma functions<br>CO-4. Determination of Improper integrals and its applications |
| **Paper-II Algebra** | CO-1 Understand the concept of Groups , Rings , their properties.<br>CO-2 Got knowledge about special kind of groups and rings and about homomorphism , isomorphism etc. |

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| **Paper- III**<br>**Probability** | CO-1.A good understanding of elementary probability theory and its real lifeapplications.<br>CO-2. Concept of random events, their expected values and its application inlottery market.<br>CO-3. Introduction of fundamental discrete distribution, their pmf, cmf, moments,etc.<br>CO-4. Introduction of fundamental continuous distribution, pdf, cdf, moments,probability curve, area under probability curves etc.<br>CO-5.Identify the application of selected probability distribution to different reallife situations. |

| **Semester-VI** | |
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| **Paper I - Analysis-II** | CO-1. Students will have the knowledge of convergenceof sequence and series of functions.<br>CO-2. Solve the problems related to Double and Triple Integrals andits application.<br>CO-3.Solve various problems related to Area and Volume<br>CO-4. Understanding of basic notions vector analysis, gradient of scalarfield, paths and line integrals. |
| | CO-5. Concept of convergence of power series. |
| **Paper II – linear Algebra** | CO-1 Student will learn about vector space , linear transformation .<br>CO-2 Student will understand diagonalizable operator , Cayley-Hamilton theorem and minimal polynomial. |
| **Paper III-NumericalAnalysis** | CO-1Apply numerical methods to find out solution of algebraic equations using different methods under various condition and solutions of system ofalgebraic equations.<br>CO-2.Apply various interpolation methods and finite difference methods.CO-3. Work out numerical differentiation and integration when routine methods are not applicable.<br>CO-4. Work numerically on ordinary differential equations using differentmethods through theory of finite differences<br>CO-5. Work numerically on partial differential equations using differentmethods through theory of finite differences.<br>CO-6. Analyse and evaluate the accuracy of common numerical methods. |

## DEPARTMENT OF MUSIC-VOCAL

### Course Outcomes of B.A. (Music-Vocal)

# Programme Outcomes: Music -Vocal

| MUSIC (vocal) Semester-I | |
|---|---|
| THEORY (3 Hours duration) 45Marks<br>PRACTICAL (20 minute's dura-tion) 45 Marks<br>(i) Choice & Viva : 35 Marks<br>(ii) Harmonium : 05 Marks<br>(iii) Tabla : 05 Marks<br>Internal Assessment (Theory + Practical) (05+05) 10 Marks<br>Total : 100 Marks | Co-1 students can write notation of any drut and vilambit of any ragas with help Bhatkhande Notation System in Modern Period.<br>Co-2 student can learn about Elementary knowledge of Raga<br>Co-3 student can learn 9 Jaties of Ragas of the Present Raga Sys-tem of North Indian Music.<br><br>Co-4 students can learn the basic Musical terms Shruti, Swara (Shudh & Vikrit), Saptak, Alankar which are very important in music Co-5 students will be motivated with Life sketch and contribution ofPandit V.N. Bhatkhande.<br>Co-6 students can learn about Sangeet shashtar and its different types .<br>Co-7 students can learn about the origin of of Tanpura and Tabla..<br>Co-7 student can learn about slow khayal and drut khayal .<br>Co-8 student can learn in detailed how to describe Taans andAlhaiya of<br>Bilawal, Bhoopali<br>Co-9 student can learn Teentala, Dadra (Single & Double) |
| MUSIC (vocal) Semester-II | |
| THEORY (3 Hours duration) 45Marks<br>PRACTICAL (20 minutes dura-tion) 45 Marks<br>(i) Choice & Viva : 35 Marks(ii)<br>(iii)<br>Harmonium :<br>Tabla :<br>05 Marks<br>05 Marks<br>Internal Assessment (Theory + Practical) (05 + 05) : 10 Marks | Co-1 students can learn 10 thaats of Bhat khande Thaat Paddhati<br>Co-2 students can learn about AAHAT naad ANAHAT naad.<br>Co-3 students about Various developments (in brief) in the History of North Indian Music of Modern Period.<br>Co-4 students can learn Elementary knowledge of the following Musical terms<br>Matra, Avartan, Sam, Tali, Khali, Vibhag, Aroh,<br>AvarohCo-5 students can learn about the Gun Dosh of<br>Gayak.<br>Co-6 students can learn about Laya & Taal which is most important in Music<br>Co-7 students will be inspired with Brief life sketch and contribu-tions of : Pt. Vishnu Digambar Paluskar<br>Co-8 students can learn about the raga<br>Yaman, Kafi with Alap and Taans. |

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| | Co-9 student can learn about notation of Talas:- Ektal, Kehrwa. |
| MUSIC (vocal) Semester-III | |
| Paper-A: THEORY (3 Hours du-ration) : 45 marks<br>(Duration 45 minutes 06 prac-tical+ 02 Theory periods per week)<br>Paper-B: Practical (20 minutes duration) : 45 marks<br>(i) Viva : 35 marks<br>(ii) Harmonium : 05 marks<br>(iii) Tabla : 05 marks<br>Internal Assessment (Theory + Practical) (05 +05) : 10 marks<br>Total : 100 marks | Co-1 students can learn about 3 Gram<br>Co-2 students can learn about vocal practice of Kanth.<br>Co-3 studnets can learn about different singing styles of Gharana.<br>Co-4 students can learn about Historical development of North In-dian music from 13-15th Century.<br>C0-5 students can learn various form of Alap<br>Co-6 students can learn sangeetak kiriya of following: - Upaj, Mukhda, Bol-Baant, Khatka, Murki, Kan.<br>Co-7 students can learn about of Lakshans of Ragas in Modern Pe-riod.<br>Co-8 students will be inspired with the life sketches of the great masters of Music and their contributions.<br>(i) Ustad Alladiya Khan<br>(ii) Pt. Bhimsen Joshi<br>(iii) Sh. Krishan Rao Shankar Pandit<br>Co-09 students can learn the notation of<br>drut khyal ragas :-Malkauns, Bhairav with Alap and Taans<br>Co-10 students can learn notation of Tala :- Jhaptala, Chartala and Keherva (Single & Double)<br>Co-11 students can learn about non detailed Ragas: Chandrakauns, Kalingda. |
| MUSIC (vocal) Semester-IV | |
| PAPER-A: THEORY (Duration 45<br>minutes, 02 Theory periods per week)<br>Paper-A: THEORY (3 Hours du-ration) : 45 marks<br>(Duration 45 minutes 06 prac-tical+ 02 Theory periods per week)<br><br><br>Paper-B: Practical (20 minutes duration) : 45 marks<br>(i) Viva : 35 marks<br>(ii) Harmonium : 05 marks<br>(iii) Tabla : 05 marks<br>Internal Assessment (Theory + Practical) (05 +05) : 10 marks<br><br>Total : 100 marks | CO-1 students can understand Historical development of North Indian Music during 15th to 17th Century.<br>Co-2 students can understand Murchhana Raga system<br>Co-3.students can learn how to write Notation of any raga or any song.<br>CO-4 Student can learn importance of Tanpura and Sahayak Nada which can listen with proper practice of<br>Naad.<br>Co-5 students can learn 15 Varieties of Gamak of sharan deva Granth.<br>Co-6 student can learn how to use following :- Meend, Bol-Alap, andolan, boltana, Badhat in ragas.<br>CO-7 students motivate with life sketches of great masters of mu-sic and their contributions:<br>i) Ustad Amir Khan Sahib<br>ii) Ustad Faiyaz Khan Sahib<br>iii) Pt. Onkar Nath Thakur<br>CO-8 students can learn how to write<br>Notations of drut khayal of Bihag and |

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| | Bhimplasi and vilambit khyal also .<br>Co-9 students can learn about ekgun or dogun of Talas: Roopak, Tilwada<br>Co-10 student can learn viva of Ragas :- Non detailed: Maru Bihag, patdeep |
| MUSIC (vocal) Semester-V | |
| Paper-A: THEORY (3 Hours du-ration) : 45 marks<br>(Duration 45 minutes 06 prac-tical+ 02 Theory periods per week)<br>Paper-B: Practical (20 minutes duration) : 45 marks<br>(i) Viva : 35 marks<br>(ii) Harmonium : 05 marks<br>(iii) Tabla : 05 marks<br>Internal Assessment (Theory + Practical) (05 +05) : 10 marks<br>Total : 100 marks | Co-1 students can learn about different shaillies of semi claasical Tappa, Dharupad, Tarana.<br>Co-2 students can learn how to divide ragas according to 8 pehar .<br>Co-3 students can learn Raganga Paddhti<br>Co-4 students can learn Historical Development to North Indian Music from Pre Historic to 4th Century.<br>Co-5 students can learn in detailed about the following:-<br>1. Manch- Pradarshan<br>2. Professions in Music<br>3. Lok Sangeet of Punjab<br>Co-6 students will be inspired with life sketches in brief of the fol-lowing: -<br>1. Pt. Kumar Gandharv<br>2. Smt. Gangu Bai Hangal<br>3. Ustad Bade Gulam Ali Khan Sahib<br>C0-7 students will be able to write and sing<br>Vilambit / Drut khyal in the prescribed Ragas with Alaps and Taans : -Vrindavani<br>Sarang, Jaunpuri.<br>Co-8 students can learn about Ekgun & Dugun of :- Jhumra, Sultala<br>Co-9 .students can learn about the viva of Non-detailed Ragas:Des, Asavari. |
| MUSIC (vocal) Semester-VI | |
| Paper-A: THEORY (3 Hours du-ration) : 45 marks<br>(Duration 45 minutes 06 prac-tical+ 02 Theory periods per week)<br>Paper-B: Practical (20 minutes duration) : 45 marks<br>(iv) Viva : 35 marks<br>(v) Harmonium : 05 marks<br>(vi) Tabla : 05 marks<br>Internal Assessment (Theory + Practical) (05 +05) : 10 marks<br>Total : 100 mark | Co-1 students can learn about the History of Indian Music i.e. from 4th to 13th Century.<br>Co-2 students can learn about semi classical . Gayan Shaillies: -Dhamar, Bhajan , Shabad, Thumri.<br>Co-3 students can learn about Varieties of Tana<br>Co-4 students will be inspired with life sketches in brief of the fol-lowing great masters:-<br>1. Ustad Vilayat Hussain Khan<br>2. Pt. Dalip Chandra Bedi<br>3. Pt. V. N. Patvardhan<br>Co-5 students can learn Detailed study of the following:-<br>1. Role of Akashwani and Doordarshan towards the popularisation of Indian Classical Music<br>2. Role of Electronic mediums (Basic Instruments) i.e Electronic,Tabla, Tanpura<br>Co-6 .students can learn about Sansthagat Sangeet Shikshan |

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| | Pranali<br>Co-7 .students canbe able to write and sing<br>Vilambit gat / drut khyal Ragas with Alap & Taans:--Multani &Darbari- kanada.<br>Co-8 students will learn how to play To (Single + Double ) of talas:-Deepchandi, Dhamar & Adachartal)<br>Co-9 students will learn of Ragas:- Non detailed Ragas: Madhuwanti, Adana |

# DEPARTMENT OF ENGLISH

## Course Outcomes of B.A. (English)

| Course | **Outcomes**<br>After completion of these courses students should be able to : |
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| Semester-I | |
| English Compulsory | CO-1. Read a variety of texts critically.<br>CO-2. Summarize a poem and recite lines from it.<br>CO-3. Increase their vocabulary.<br>CO-4. Develop the knowledge of grammar of the English Language.<br>C0-5. Enhance their four skills of Listening, Speaking, Reading and Writing.<br>CO-6. Develop their overall confidence and personality. |
| Elective English | CO-1. Knowledge of literary terms.<br>CO-2. Gain a good knowledge and understanding in vocabulary.<br>CO-3. The prescribed course equips students with nuances of language that includes proficiency in grammar, its effective usage in speaking and writing.<br>CO-4. Recognize the rhythms, metrics and other musical aspects of poetry. |
| Semester-II | |
| English Compulsory | CO-1. The students understand English language and realise potential to communicate with accurate grammar and appropriate vocabulary.<br>CO-2. The learners acquire proficiency in writing skills at various levels of composition.<br>CO-3. The course widens their perceptions of the world beyond curriculum by exposing them to a variety of subjects based on contemporary socio-cultural issues. |
| Elective English | CO-1. Reading of a variety of texts critically and creatively.<br>CO-2. They can analyse and interpret texts from various angles.<br>CO-3. It also enriches their vocabulary and their expression.<br>CO-4. Learners develop appreciation of language as an artistic medium and understand the importance of forms, elements and style that shape literary texts.<br>CO-5. The students become capable to understand that literature is an expression of human values within a historical and social context. |
| Semester-III | |

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| English Compulsory | CO-1. Enabled students to understand distinctive features of novels, short fiction and essays and relate the texts and contexts to real life.<br>CO-2. Empowered students to exercise their ability to think clearly and cogently.<br>CO-3. The implied meaning of language and capability of self-expression.<br>CO-4. Read and comprehend matter written in English.<br>CO-5. The course equips them with competency in fields where oral skills are demanded. |
| Elective English | CO-1. Knowledge of identification of literary devices used by writers.<br>C0-2. Do a close reading of literary texts and rhetoric.<br>CO-3. Increase knowledge of fiction, poetry, and drama.<br>CO-4. Understand various genres of literature along with the usage of literary devices.<br>CO-5. It helps them learn effective communication by reading the various language patterns, sentence structure and dialogue forms.<br>CO-6. Identify parts of speech. |
| Semester-IV | |
| English Compulsory | CO-1. Read a variety of texts critically.<br>CO-2. To provide practical knowledge to the students regarding the various grammatical aspects.<br>CO-3. To promote the speaking and writing skills of the students by developing the vocabulary. |
| Elective English | CO-1. Understand distinctive features of novels, short fiction and prose essays.<br>CO-2. To be able to write, expand an idea and contract a passage.<br>CO-3. Enhancing the vocabulary for linguistic competence and effective communication. |
| Semester-V | |
| English Compulsory | CO-1. Basic knowledge of English as Language.<br>CO-2. To ensure and improve the writing skills of the students through various aspects of grammar.<br>CO-3. Provide advance knowledge of English in matter of speaking, writing, listening and reading.<br>CO-4. Students acquaint with a keen and subtle way in which the language is used.<br>CO-5. Relation between pleasure of literature and real life. |
| Elective English | CO-1. To make the students see how Indian English poetry expresses the ethos and culture of India. |

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| | CO-2. Understanding of style and language of literary works.<br>CO-3. Critical reading of literary texts.<br>CO-4. To expose students to some of the best samples of Indian English Poetry and to make them understand creative uses of language in Indian English Poetry.<br>CO-5. Students become familiarized with literary terms. |
| Semester-VI | |
| English Compulsory | CO-1. Encourage self-expression and creativity.<br>CO-2. Improve their competence in the use of English.<br>CO-3. Students can understand meanings of literary texts. |
| Elective English | CO-1. To make them familiar with the significant critical approaches and terms.<br>CO-2. To encourage students to interpret literary works and to develop aptitude for critical analysis.<br>CO-3. To sharpen critical, creative and analytical skills of students and enhance their proficiency in English language.<br>CO-4. Students are introduced to the grammatical properties in order to enable them to write and speak English consciously |

## Course Outcomes of B.C.A. (English)

| Course | **Outcomes**<br>After completion of these courses students should be able to : |
|---|---|
| Semester-I | |
| English Compulsory | CO-1. Encourage the students to speak English well.<br>CO-2. Enable students to use English in day-to-day communication.CO-3. Develop their written communicative competence.<br>CO-4. Prepare them for competitive exams.<br>CO-5. Build up their confidence in the usage of English.CO-6. Inspire students to read the text critically |
| Semester II | |
| English Compulsory | CO-1. Describe and identify major writers of the poetry genre<br>CO-2. Develop the knowledge of grammatical system of English language.<br>CO-3. Develop four language skills: listening, speaking,reading and writing.<br>CO-4. Equip learners with current trends in grammar and usage. |

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| | CO-5. Develop their ability as critical readers and writers.<br>CO-6. Increase self-awareness about the English language. |

## Course Outcomes of B.Sc. (English)

| Course | Outcomes<br><br>After completion of course students would be able to: |
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| SEMESTER III | |
| English Compulsory | CO-1. Enhance proficiency in grammar, its effective usage in speaking and writing.<br>CO-2. Foster cooperation and encourage participation in various tasks.<br>C0-3. Develop cultural and interpersonal sensitivity in communication behaviour.<br><br>CO-4. Develop, interpret and express ideas through oral, visual andwritten communication effectively.<br><br>CO-5.Develop intellectual flexibility and creativity. |
| SEMESTER IV | |
| English Compulsory | C0-1. Write and speak good English in all situations.<br><br>CO-2. Use receptive skills through reading and listening to acquire good exposure to language and literature.<br><br>CO-3. Trace the difference of pronunciation of words, their correct pronunciation, accent and intonation.<br><br>CO-4. Perform various speaking and writing tasks, such as role-plays, debates, group discussion.<br><br>CO-5. Develop accurate sense of self and nurture a deep understanding of personal motivation.<br><br>CO-6. Enhance fluency of language, presentation skills and creative writing. |

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|---|---|
| Elective English | • Knowledge of identification of literary devices used by writers.<br>• Do a close reading of literary texts and rhetoric.<br>• Increase knowledge of fiction, poetry, and drama.<br>• Understand various genres of literature along with the usage of literary devices.<br>• It helps them learn effective communication by reading the various language patterns, sentence structure and dialogue forms.<br>• Identify parts of speech. |

## B. Com semester I

CO1. To provide an overview of Prerequisites to Business Communication.
CO2. To put in use the basic mechanics of Grammar.
CO3. To provide an outline to effective Organizational Communication.
CO4. To underline the nuances of Business communication.
CO5. To impart the correct practices of the strategies of Effective Business writing.

## B. Com semester II

CO1. To make students improve their writing skills.
CO2. To demonstrate his verbal and non-verbal communication ability through presentations.CO2. To distinguish among various levels of organizational communication and communicationbarriers.
CO3. To provide an outline to effective Organizational Communication.
CO4. To underline the nuances of Business communication.
CO5. To impart the correct practices of the strategies of Effective Business writing.Course

## Outcomes M.A. (English)
## Semester-I

| M.A. English I | Course Outcomes<br>After completion of course students would be able to : |
|---|---|
| Paper-I | 1. Understand the concept of literary Criticism and Theory.<br>2. Recognize historical, Political and Aesthetic dimensions of the growth of Literary Criticism.<br>3. Get familiarize with the key concepts and texts of literary criticism ever since it emergence.<br>4. Get firsthand knowledge of some of the |
| | works of the great critics. |
| Paper-II | • Understand the concept of metaphysical poetry.<br>• Understand the new literary forms of English poetry.<br>• Recognize the rhythms, metrics, and other musical aspects of poetry. |
| Paper-III | • Expound the effect that drama has on the understanding of ideas and the ethos of a culture.<br>• Understand theme, structure, and style in British Drama.<br>• Understand the social and historical contexts of the drama. |
| Paper-IV | (a) Evaluate the story based on themes and analyse the style of writing, classifying characters, and other aspects of the novel.<br>• Understand different types of characters and how they react to the situation.<br>• Learn about the concept of picaresque novel, realism, epistolary novel, social novel, and historical novel.<br>• Able to look at the text in a critical perspective. |

## Semester-II

| M.A. English I | Course Outcomes<br>After completion of course students would be able to : |
|---|---|
| Paper-I | • Develop a chronological sense of literary criticism.<br>• Encourage students to undertake further |
| | reading in literary criticism.<br>• Acquaint the students with important critical movements. |
| Paper-II | (d) Understand the theme, structure, and style of British Poetry.<br>(e) Analyse the various elements of poetry, such as diction, tone, form, imagery, figure of speech, symbolism, theme, etc.<br>• Understand the significance of human values and moral values. |
| Paper-III | • Identify, explicate, and respond to key themes and elements in drama.<br>• Learn to comprehend and analyse historical contexts of the drama.<br>• Learn to critically analyse key ideas indramatic literature. |
| Paper-IV | • Learn about the variety of structures in novel.<br>• Acquire a broad perspective of the novel as a literary genre and the relevant historical, geographical, cultural identical backgrounds.<br>• Appreciate the working of various literary devices like irony in fiction.<br>• Analyse various types of novels with reference to thematic and other approaches. |

## Semester-III

| M.A. English II | Course outcomes<br>After completion of course students would be able to : |
|---|---|

| | |
|---|---|
| Paper –I | • Familiarize with the important movements in literary theory.<br>• Understand different aspects of theory.<br>• Develop their own critical standpoints on |
| | the theorists and their work. |
| Paper –II | • Appreciate the historical trajectory of various genres of Indian Writing in English fromcolonial times to till present.<br>• Analyse Indian literary texts written in English in terms of colonialism, post-colonialism, regionalism, and nationalism.<br>• Analyse the strength and constraints of Indian English as a literary medium. |
| Paper-III | Understand the historical background of American literature and the American dream.<br>Get an understanding of how society, culture and politics affect literature.<br>Evaluate the thoughts, beliefs, customs, struggles, and visions of African American writers. |
| Paper-IV | • Understand and interpret Shakespearean drama.<br>• Undertake textual analysis of Shakespeare's plays.<br>• Develop sufficient ability for reading andunderstanding Elizabethan English drama to allow for better comprehension of Shakespeare's plays, poems, and sonnets. |

## Semester-IV

| M.A. English II | Outcomes<br>After completion of course students would be able to : |
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| | |
|---|---|
| Paper –I | • Learn to distinguish between fact and opinion, literal and inferential meanings, warranted and unwarranted assumptions from available data.<br>• Develop critical thinking throughanalysis, comparison, and theoretical approaches. |
| | • Develop the ability to apply various theories to works of literature and aspects of contemporary culture. |
| Paper-II | • Attain accessibility to regional and international literary forms.<br>• Able to contextualize the texts.<br>• Develop a contemporary perspective to study the texts. |
| Paper-III | • Compare and contrast the socio, political, religious, and cultural differences and transformations as it found in literatures of different periods in America.<br>• Develop a critical and analytical perspective with regard to American texts and authors.<br>• Critically analyse American literary texts in the light of several movements in literature. |
| Paper-IV | • Understand all the facets of Shakespearean drama and the sonnets and their relation to the present.<br>• Comprehend the characters, plots, and themes of Shakespearean plays.<br>• Interpret particular Shakespearean works in literary critical essays of one's own. |

# DEPARTMENT OF HINDI

## Course Outcomes of B.A. (Hindi)

**B.A I Hindi Semester 01**

On completion of the course students are able to Understand.

1) Stories of famous Hindi Writers like Prem Chand, Jai Shankar Parshad, Ashk etc.
2) History of Hindi Lit. –Aadi Kaal.
3) Elements of story.
4) Basic Grammer.
5) Official and technical word meaning.
6) Poetry of poets during Bhakti Kaal like Kabir Dass ji, Guru Nanak Dev Ji, Meera Bai, Rai Dass.

**B.A I Hindi Semester 02**

On completion of the course students are able to Understand

1) Poetry of poets during Bhakti Kaal like Tulsi Dass Ji, Sur Dass Ji.
2) Elements of Novel.
3) Jhansi Ki Rani Novel by Varindawan Lal Verma.
4) History of Hindi Lit. –Bhakti Kaal.
5) Letter and Paragraph writing.
6) Official and technical word meaning.

**B.A II Hindi Semester 03**

On completion of the course students are able to Understand

1) Poetry of poets during Dwivedi and Chayavaad Yug like Gupt, Parsad, Pant and Nirala.
2) Hindi Play Mr. Abhimanyu by Dr. Laxmi Narayan Lal.
3) History of Hindi Lit. –Reeti Kaal.
4) Elements of Play.
5) Grammer

**B.A II Hindi Semester 04**

On completion of the course students are able to Understand

1) Poetry of poets during Chayavaad and Parayogvaad Yug like Mahadevi Verma, Bharti, Agney.
2) History of Hindi Lit. –Aadhunik Kaal.
3) Adarsh Ekanki sangreh ( One act Plays)
4) Elements of Ekanki.
5) Official letter writing.
6) Official Comments writing.

**B.A III Hindi Semester 05**

On completion of the course students are able to Understand

1) Kurukshetra by Ramdhari Singh Dinkar.
2) Elements of Kavya, Maha Kavya, Khand Kavya, Nibandh, Jeewani.
3) Alankar

**B.A III Hindi Semester 06**

On completion of the course students are able to Understand

1) Essay Writing.
2) Gadya Phulwari an Anthology of prose writing.
3) History of Hindi prose.
4) Chand.
5) Devnagri- it's Sources and qualities.
6) How to prepare Invitation Card, advertisement writing.

# DEPARTMENT OF PUNJABI

## Course Outcomes of B.A. (punjabi)

| Semester-I | |
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| Course | Outcomes:- After completion of these courses students should be able to; |
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| Semester-II | |
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| Course | Outcomes:- After completion of these courses students should be able to; |
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| Semester-III | |
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| Course | Outcomes:- After completion of these courses students should be able to; |
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| **Semester-IV** | |
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| Course | Outcomes:- After completion of these courses students should be able to; |
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| Semester-V | |
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| Semester-VI | |
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## Course Outcomes of M.A. (Punjabi)

| Semester-I | |
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| Course | Outcomes:- After completion of these courses students should be able to; |
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| Semester-II | |
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| Course | Outcomes:- After completion of these courses students should be able to; |
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| Semester-III | |
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| Course | Outcomes:- After completion of these courses students should be able to; |
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| Paper Code-PNR | CO-1. □□ □□□□□ □□□□t□□□ □□ □□□□t □□ □□ □□ □□□□ □□□□□□□□ □□ □□<br>□□□□□□□, □□□□□□□ □□□□ □□□□ □□ □□t□□ □□□□ |

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| | CO-2. [illegible]<br>CO-3. [illegible] |

| **Semester-IV** | |
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| Course | Outcomes:- After completion of these courses students should be able to; |
| Paper Code-BPG | CO-1. [illegible]<br>CO-2. [illegible]<br>CO-3. [illegible]<br>CO-4. [illegible] |
| Paper Code-PLS | CO-1. [illegible]<br>CO-2. [illegible]<br>CO-3. [illegible] |
| Paper Code-APK | CO-1. [illegible]<br>CO-2. [illegible]<br>CO-3. [illegible] |
| Paper Code-PNR | CO-1. [illegible]<br>CO-2. [illegible]<br>CO-3. [illegible] |

# R.S.D. COLLEGE

**FEROZEPUR CITY (152002)**

## FACULTY OF COMMERCE

# Programme Outcomes (POs)

**and**

# Course Outcomes (COs)

## POST-GRADUATE DEPARTMENT OF COMMERCE
## Course Outcomes of B.Com

**B.com Semester I**

| Sr. No. | Name of the Course | Course Outcomes |
|---|---|---|
| 1. | BCM101 A: PUNJABI | CO-1. The students know about the different streaks of human life by reading bibliography.<br>CO-2. The students get the literary sense of comprehension of thesubject.<br>CO-3. The students know the skill of communication in Punjabi. CO-4. The students also know about the word formation and vocabulary.<br>CO-5. The students know the bibliography as a form of literature. |
| 2. | BCM101 B HISTORY ANDCULTURE OF PUNJAB | CO1: To introduce the students to the history of the Punjab region.<br>CO-2: The students enrich with the values and heritage of Punjab. |
| 3. | BCM 102: ENGLISH AND BUSINESS COMMUNICATION SKILLS | CO1: It shall focus on different aspects of communication in general and business communication in particular, communication within organizations, types of communication, and significance of positive attitude in improving communication.<br>CO-2. Developing language and writing skills<br>CO-3. Writing of Tender, business letters, notice, memos, resume, and public notices.<br>CO-4. Focus on interview techniques<br>CO-5. Understanding and interpretation of short stories and one-actplays. |
| 4. | BCM103: PSYCHOLOGY FORMANAGERS | CO-1. To provide broad understanding about the basic concepts and techniques of human behavior.<br>CO-2. To provide knowledge about the inter-personal behavior, conflict management and stress management.<br>CO-3.To impart knowledge of motivation, leadership, perception and personality.<br>CO-4.To provides knowledge about individual behavior, factors affecting individual behavior.<br>CO-5. To impart knowledge of attitude, values, beliefs. |
| 5. | BCM 104: BUSINESS ECONOMICS-I | CO-1. To study the basic of concept of Micro Economics relevant for business decision making.<br>CO- 2. It helps students to understand the application of Economics Principles in Business Management.<br>CO-3. Students understand about how to apply the concept of |

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| | | opportunity cost.<br>CO-4. To study shapes of different cost curves.<br>CO-5. Students analyse operations of markets under varying competitive |
| 6. | BCM 105: PRINCIPLES OFFINANCIAL ACOUNTING | CO-1. To give conceptual knowledge about accounting concepts and Conventions.<br>CO-2. Basic as well as practical knowledge about accounting treatment.<br>CO-3. To provide knowledge about maintaining books under royalty ,branch, consignment and joint venture with GST Implication.<br>CO-4. Introduction to IFRS and Accounting Standards.<br>CO-5. To study about dissolution and insolvency of Partnership firms. |
| 7. | BCM 106: COMMERCIAL LAW | CO-1. Learn the difference between valid void and voidable contract<br>CO-2. Learn how to pursue the consumer rights under consumer protection act1982.<br>CO-3. To acquaint the students with general commercial laws.<br>CO-4. To understand basic principles and Origins in the area of commercial law.<br>CO-5. To Identify the fundamental legal principles behind contractual agreements. |
| 8. | BCM 107: PRINCIPLES ANDPRACTICES OF MANAGEMENT | CO-1.To helps the students in understanding the process of business management.<br>CO-2.To gives basic knowledge about the management functions.<br>CO-3.To imparts basic knowledge of management by objective, its mechanism.<br>CO-4. To give knowledge about the communication, motivation, leadership.<br>CO-5. To give knowledge about the organizational structures, authorityand delegation |

**B.com Semester II**

| Sr. No. | Name of the Course | Course Outcomes |
|---|---|---|
| 1. | BCM201 A: PUNJABI | CO-1. The students enrich their aesthetic sense by reading bibliography.<br>CO-2. The students know the nature of the subject in comprehension to the secondary level.<br>CO-3. The students get more knowledge of Punjabi culture. CO-4. The students get strong on technical vocabulary. |
| 2. | BCM201 B HISTORY AND | CO1: To introduce the students to the history of Punjab region in |

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| | CULTURE OF PUNJAB IN THECOLONIAL AND POST INDEPENDENCE TIMES | modern times. |
| 3. | BCM 202 : ENGLISH AND BUSINESS COMUNICATION | CO-1. Creating an interest in literature<br>CO-2.Understanding and interpretation of prose, short storiesand plays.<br>CO-3.Focus on different aspects of business communication in written form.<br>CO-4. Basic understanding of Non-verbal communication.CO-5.Developing the skill of Effective listening.<br>CO-6.Skilled use of modern forms of communication like e-mails, Fax Messages, Teleconferencing, Audio-Visual Aids and PowerPoint Presentations. |
| 4. | BCM 203: E- COMMERCE | CO-1. Logically observed and experienced the main activities of E-Commerce.<br>CO-2. Learned and evaluated about the various components of E-Commerce.<br>CO-3. Conceptually learned the concept of online shopping and models of Electronic market.<br>CO-4. Thoroughly learned the concepts of instant messaging and Electronic Data Exchange.<br>CO-5. Learned about the implementation of HTTP and Secure Electronic transaction |
| 5. | BCM 204: BUSINESS ECONOMICS-II | CO-1. Students will be able to identify the determinants of various macroeconomic aggregates such as output, unemployment, inflation, productivity and the major challenges associated with the measurement of these aggregates.<br>CO-2. Apply economic reasoning to understand the operation ofan economy.<br>CO-3. Understand the basics of national income accounting. CO-4. To provide knowledge about the basic concepts of distribution.<br>CO-5. To enable students to learn about the modern tools of macroeconomic analysis. |
| 6. | BCM 205: CORPORATE ACCOUNTING | CO-1. Preparation of final accounts of companies.<br>CO-2.Practical knowledge of issue and redemption of debentures.<br>CO-3. Practical knowledge of issue and redemption of shares.<br>CO-4.To study how to maintain accounts of banking and insurance Companies. |

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| | | CO-5. Guidelines and procedure of issuing bonus and right shares |
| 7. | BCM 206: BUSINESS LAWS | CO-1. Critically evaluate conditions and warranties of sale of goods act.<br>CO-2. Able to use negotiable instrument in practical life.<br>CO-3. Demonstrate understanding of the legal environment of business.<br>CO-4.Communicate effectively using standard business and legal terminology.<br>CO-5.To Aware students about the different business laws. |
| 8. | BCM 207: HUMAN RESOURCE MANAGEMENT | CO-1.Learn the qualities of human resource manager in an organization.<br>CO-2. Analysis the importance of different methods of training given to the employees in organization.<br>CO-3. Memorize the difference between on the job training andof the job training.<br>CO-4. To acquaint the participant of industrial relation and recruitment of good industrial relation programme. |
| 9. | ENVIRONMENT, ROAD SAFETY EDUCATION, VIOLENCE AGAINST WOMEN/ CHILDREN AND DRUG ABUSE | CO1: To enhance the knowledge of the students regarding various environment issues, road-safety rules, and various abuses. |

## B.com Semester III

| Sr. No. | Name of the Course | Course Outcomes |
|---|---|---|
| 1. | BCM 301: ISSUES IN INDIANCOMMERCE | CO-1. To enable the students to acquire basic knowledge of different issues in Indian commerce.<br>CO-2.To enhances the knowledge about the internationalsources of finance.<br>CO-3. To give knowledge about stock exchanges, credit rating agencies.<br>CO-4. To give knowledge about credit rating agencies and role of ICRA and CRISIL.<br>CO-5.To imparts knowledge about the Investor protection, SFIO, growth of infrastructure in India, PPP. |
| 2. | BCM 302: COST ACCOUNTING | CO-1. This Course exposes students to a broad range of Cost Accounting concept and terminology. |

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| | | CO-2. Student learn about how to identify, measure, accumulate direct and indirect cost, how to apply different costing techniques like Job Costing, Process Costing, CVP analysis etc.<br>CO- 3. Students learn various inventory control techniques used by different concerns.<br>CO-4. To give conceptual knowledge regarding allocation and apportionment of overheads. |
| 3. | BCM 303: COMPANY LAW | CO-1. To update the knowledge of various provisions of the Companies Act of2013.<br>CO-2. To apprise the students of new concepts involving in company law regime.<br>CO-3. To acquaint the students with the duties and responsibilities of key managerial personnel.<br>CO-4.To imparts depth knowledge about the provisions and procedures to hold various kinds of meetings under companylaw.<br>CO-5.Understand the use of the memorandum of association, article of association in a company and prospectus in a company. |
| 4. | BCM 304: BUSINESS MATHEMATICS AND STATISTICS | CO-1. Students will learn how to calculate and apply measure of location and measure of dispersion –grouped and ungrouped data cases.<br>CO-2. Students will be able to compute and interpret the result of bivariate and multivariate regression and correlation analysis.<br>CO-3. Students will be familiar with a variety of examples wheremathematics or statistics helps accurately explain abstract or physical phenomena.<br>CO-4. Students will recognize and appreciate the connection between theory and applications.<br>CO-5. Students will be able to communicate key statistical concept to non statisticians. |
| 5. | BCM 305: BANKING ANDINSURANCE | CO-1. To acquaint the students with their Indian banking structure.<br>CO-2. Detailed knowledge of various banking products.CO-3 To impart practical knowledge of operating ATM,<br>CDM ,Debit & Credit cards, PAYTM Banking ,GOOGLE PAY &<br>other e-banking modes. |

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| | | CO-4. To give complete picture on Insurance Industry & IRDA |
| 6. | BCM-306: GOODS AND SERVICETAX | CO-1.To gain working knowledge on GST and application of the same in the organizations.<br>CO-2. To enable the students to learn the concepts indirect tax and GST from the pre GST period to post GST period.<br>CO-3. To understand the implications of GST on the taxable capacity consumers, dealers and of the society at large and its changes<br>CO-4. Understand and make use of knowledge of GST rules in taking managerial decisions in various tax related matters.<br>CO-5. To enable students to learn about the various GST authorities. |

## B.Com Semester IV

| Sr. No. | Name of the Course | Course Outcomes |
|---|---|---|
| 1. | BCM 401: SECURITY ANALYSISAND PORTFOLIO MANAGEMENT | CO-1. Analyze and evaluate financial markets, how securities are traded, mutual funds, investment companies, and investor behavior.<br>CO- 2. Construct optimal portfolios and illustrate the theory and empirical applications of asset pricing models.<br>CO-3. Explain macro and industry analysis, equity valuation, financial statement analysis and technical analysis.<br>CO-4. Analyze bond prices and yields and fixed-income portfolios.<br>CO-5. Characterize the implications of the market efficiency evidence on active portfolio management. |
| 2. | BCM 402: ADVANCED ACCOUNTING | CO-1.To give conceptual knowledge to students about advanced accounting problems with relevant Indian Accounting Standard.<br>CO-2. To give student's basic as well as practical knowledge relating to the valuation of shares and valuation of goodwill. CO-3. To provide deep knowledge to the students about theprocedure of amalgamation and absorption.<br>CO-4. To impart depth knowledge about the procedure of liquidation of companies. |
| 3. | BCM403: AUDITING ANDSECRETARIAL PRACTICE | CO-1. Student will understand the audit process from the engagement planning stage through completion of the audit, as well as the rendering of an audit opinion via the various report options.<br>CO-2. To help the students in understanding concepts and issues |

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| | | in Auditing and secretarial practices.<br>CO-3.To identifies the steps needed to prepare for an audit. CO-4. To know how to report results of audit plan and Audit taking into account concepts of evidence, risk and evaluate internal control.<br>CO-5.To knows about the position and role of a company Secretary. |
| 4. | BCM 404: COST MANAGEMENT | CO-1. To acquaint the students with the various methods of cost determination.<br>CO-2. To understand the tools and techniques of cost control.<br>CO-3. Able to prepare various budgets like fixed and flexible budgets.<br>CO-4. Define the terms with regard to variance analysis.<br>CO-5. Define the process to compute total cost of a productbelong to various production processes. |
| 5. | BCM 405: MARKETING MANAGEMENT | CO-1. Students can identify how consumer behaves differently.<br>CO-2. Able to understand how a product passed from different stages.<br>CO-3. Able to understand the difference between trademark and branding.<br>CO-4. Able to describe the customer segmentation, target marketing and positioning.<br>CO-5. Understand different methods of sale promotion. |
| 6. | BCM 406: QUANTITATIVE TECHNIQUES AND METHODS | CO-1. Students will acquaint with the various quantitative techniques and methods.<br>CO-2. Students will understand the theory of probability and applications of linear programming.<br>CO-3. Students will understand the concept of correlation, regression and their practical implications.<br>CO-4. Students can apply such techniques and methods in practical life.<br>CO-5. It will help students in making managerial decisions |

## B.Com Semester-V

| Sr. No. | Name of the Course | Course Outcomes |
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| 1. | BCM 501: INCOME TAX LAW | CO-1. To understand the provisions and procedure to compute total income under five heads of income i.e. salaries, house property, profits & gains from business & |

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| | | profession, capital gains and other sources.<br>CO-2. To make aware about provisions of direct tax with regard to IT Act, 1961 and IT Rules, 1962.<br>CO-3. To make aware about agriculture income, residential status and incidence/charge of tax.<br>CO-4. Able to compute total income and define tax complicacies and structure.<br>CO-5. Able to understand amendments made from time to time in Finance Act. |
| 2. | BCM 502: MANAGEMENT ACCOUNTING | CO-1. To develop the knowledge of business finance and management decision.<br>CO-2. To teach a sense of responsibility and a capacity for accounting for management.<br>CO-3. To study the basic concepts of management accounting relevant in business.<br>CO-4. To understand the usage of accounting in financial management. |
| 3. | BCM 503: INDIAN ECONOMY | CO-1. TO give knowledge about Indian economy.<br>CO-2. Detailed study of foreign trade, foreign trade policy.<br>CO-3.Study of demographic features of Indian economy.<br>CO-4. Study of economic reforms and its impact in Indian economy. |
| 4. | BCM 504: PRODUCTION ANDOPERATION MANAGEMENT | CO-1. To understand the basics of operations management terminology and technological trends.<br>CO-2. To develop certain quantitative skills, competencies in the input transformation and output process.<br>CO-3. To have knowledge about types of processes used in manufacturing.<br>CO-4. Make familiar regarding demand forecasting, plant layout, location and supply chain management related decisions.<br>CO-5. To have adequate knowledge about work study and work measurement. |
| 5. | BCM 505: ENTREPRENEURSHIP ANDSMALL BUSINESS | CO-1. To give knowledge about issues involved in setting up a private Enterprise and to develop required entrepreneurial skills in economic development.<br>CO-2. To motivate students to opt for entrepreneurship and self-employment as alternate career options. |

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| | | CO-3.To give knowledge about the small scale industries and role of SSI in India, problems faced by SSI, tax exemptions forSSI, small business and modern technology.<br>CO-4. To impart knowledge of business planning, motivation, leadership, decision-making, innovation, risk taking.<br>CO-5.To gives knowledge about the EDP's, relevance of EDP'sand role of government in organizing EDP's. |
| 6. | BCM 506: FINANCIAL MARKETS AND SERVICES | CO-1. To familiarize the students with the traditional and modern financial markets and services.<br>CO-2. It helps the learners to understand the structure of Indian Financial System.<br>CO- 3. It provides knowledge to the students about the typesof financial markets their nature and working.<br>CO-4. It helps the students to know about the concept of mutual funds, its management and its types. |

## B.Com Semester VI

| Sr. No. | Name of the Course | Course Outcomes |
|---|---|---|
| 1. | BCM 601: DIRECT TAX LAWS | CO-1. To understand the provision and procedure for clubbing & aggregation of incomes and set-off & carry forward of losses.<br>CO-2. To understand the various deductions to be made from gross total income U/s 80-C to 80-U in computing total income.<br>CO-3. To understand the provisions and procedure to compute total income and tax payable by an individual. HUF, Firms and AOP/BOI.<br>CO-4. To understand various tax rebates & relief and procedureto file IT return.<br>CO-4. To aware the students about the tax authorities and their powers.<br>CO-5. Able to file IT return on individual basis. |
| 2. | BCM 602: FINANCIAL MANAGEMENT | CO-1. To learn capital budgeting and different techniques. CO-2. To study effective financial planning.<br>CO-3. Students will able to understand the concept of working capital management.<br>CO-4. Perform analytical reviews of financial results, proposals, and plans.<br>CO-5. Identify funding sources, instruments, and markets. |
| 3. | BCM 603: ISSUES IN FINANCIAL | CO-1. The main purpose of this subject is to provide to |

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| | REPORTING | knowledge to the students about development in financial reporting.<br>CO-2. Students learn about the various reporting issues at the national and international level.<br>CO-3. To provide conceptual knowledge of framework of FASB and IASB.<br>CO-4. To study about the recent trends in FR in the Indian Contest. |
| 4. | BCM604: SOCIAL AND BUSINESS<br>ETHICS Objectives | CO-1. Develop strategies for identifying and dealing with typical ethical issues, both personal and organizational.<br>CO-2. The student will be able to analyze various ethical codes in corporate governance.<br>CO-3. The student will be able to Analyze corporate social Responsibility.<br>CO-4. Students will be able to understand the environmental issues regarding business. |
| 5. | BCM 605:<br>OPERATIONAL<br>RESEARCH* | CO-1. Students will understand the concept and techniques of operations research.<br>CO-2. Identify and develop operational research models from the verbal description of the real system.<br>CO-3. Understand the mathematical tools that are needed tosolve optimization problems.<br>CO-4. Use mathematical software to solve the proposed models.<br>CO-5. Develop a report that describes the model and the solving technique, analyze the results and propose recommendations in language understandable to the decision-making processes in Management Engineering. |
| 6. | BCM 606: SECTORAL ASPECTSOF INDIAN ECONOMY | CO-1. To study about ways to enhance agricultural productivity.<br>CO-2. To share benefits of organic and corporate farming.<br>CO-3. Study of latest industrial policy with five year plans.<br>CO-4. To determine problems of large scale and small scale industries.<br>CO-5. To throw light on problems of Indian economy with special<br>reference to inflation,unemployment. |

## B.COM. (HONS.) ACCOUNTING & FINANCE

| Sr. No. | Name of the Course | Semester | Course Outcomes |
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| 1 | BCH 307: ACCOUNTING THEORY AND REPORTING PRACTICES | 3rd SEMESTER | CO1: To provide broad understanding to the students about the basic concepts, theories and policies regarding accounting theory.<br>CO2: To acquaint students with history and development of accounting. |
| 2. | BCH407: CONTEMPORARY ISSUES IN ACCOUNTING | 4th SEMESTER | CO1:To acquainting students with the contemporary issues in accounting like finacial instruments, forensic accounting.<br>CO2: To aware students about the role of international accounting standards board. |
| 3. | BCH 507: STRATEGIC FINANCIAL MANAGEMENT | 5th Semester | CO1:To enable the students to understand various financial management concepts and to apply financial management theories and techniques for strategic decision making and informed analysis.<br>CO2: It aims at enabling students to manage basic corporate finance transactions besides investing more profitably and operate more efficiently. |
| 4. | BCH607: INVESTMENT MANAGEMENT | 6th Semester | CO1: To provide a broad overview of investment management, focusing on the application of finance theory to the issue faced by portfolio managers and investors in general.<br>CO2: To enable the students to get theoretical and practical background in the field of investments, financial markets, valuation of investment and different investment strategies.<br>CO3: Students will know the characteristics of different financial assets such as money market instruments, bonds, and stocks, and how to buy and sell these assets in financial markets. |

## Course Outcomes

## Name of the course- M.Com

**M.com Semester- I**

| Sr. No. | Name of the Course | Course Outcomes |
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| 1 | M.C.101 MANAGERIAL ECONOMICS | CO-1. To integrate the basic concept of Economics with the tools of mathematics and statistics in order to analyze and make optimal business decisions.<br>CO-2. To understand the role of managers informs.<br>CO-3. To analyze the demand and supply condition and accessthe position of a company.<br>CO-4. To design competitive strategies including pricing, marketing |
| 2 | M.C.102 QUANTITATIVE METHODS FOR BUSINESS | CO-1. To understand statistical tools for quantitative analysis<br>CO-2. To understand the statistical tools for research and business decision making.<br>CO-3. To develop an understanding of the theory of probability, rules of probability and probability distributions.<br>CO-4. To comprehend the decision making process under uncertainty using statistical tools.<br>CO-5. To become aware of the concepts in sampling, sampling distributions and estimation.<br>CO-6. To understand the meaning and process of hypothesis testing including one-sample and two-sample tests. |
| 3 | M.C.103 MODERN ACCOUNTING THEORY &REPORTING PRACTICES | CO-1. To give knowledge about the IASB and its conceptual framework.<br>CO-2. To give basic and conceptual knowledge about international financial reporting standards and practices.<br>CO-3.To imparts knowledge of Harmonization process, and itsbenefits.<br>CO-4. To impart basic and conceptual knowledge of preparation of financial statements for single entities as well as combined entities.<br>CO-5. To give basic and conceptual knowledge about presentation and disclosure of financial statements. |
| 4 | M.C.104 ORGANISATION THEORY AND BEHAVIOUR | CO-1. To develop understanding among students about the structure and behavior of organizations.<br>CO-2. To make them capable of realizing the competitiveness of firms.<br>CO-3. To impart knowledge about organization structures, organizational culture, organization development.<br>CO-4.To impart knowledge of stress management, conflict management. |

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| | | CO-5.To give knowledge about motivation, leadership, group decision- making and communication. |
| 5 | M.C.105 MARKETING MANAGEMENT | CO-1. To equip the students to take effective distribution decisions for products and services.<br>CO-2. To develop the skills among students to enable them to design the Promotion-Mix strategies advertising campaigns.<br>CO-3. To make the students aware about the current trends in marketing to enable them to take proactive measures while taking marketing decisions.<br>CO-4. To familiarize the students with the fundamentals of marketing to enable them to take better marketing decisions. |
| 6 | M.C.106 MANAGEMENT INFORMATION SYSTEM | CO-1. Enable students to identify how Information Systems support business strategy business processes and practical applications in an organisation<br>CO-2. Enable students to interrelate how various support systems can be used for business decisions and to sustain competitive advantage<br>CO-3. Describe how the Internet and world wide web provide a global platform for business business mobility and Communications collaboration and cloud computing.<br>CO-4. Express the proven value of and relationship between business data, data management and business intelligence.<br>CO-5. Analyse systems development and project management methodologies<br>CO-6. Help students to learn MIS challenges future Trends and relevant case studies<br>CO-7. Express ethical awareness and moral reasoning applied to MIS. |
| 7 | M.C. 107 Workshop on IT Applications in Commerce | CO-1: This will help the students gaining insights into IT applications in Commerce |

## M.com Semester- II

| Sr. No. | Name of the Course | Course Outcomes |
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| 1 | M.C.201 BUSINESS ENVIRONMENT | CO-1. To study about features of prevailing business environment. CO-2. To study about MNC'S and their impact in the country.<br>CO-3. Detailed study of how stock market, capital market, money market effect business environment. |

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| | | CO-4.Study of latest industrial policy and critical evaluation of the same. |
| 2 | M.C.202 RESEARCH METHODOLOGY IN COMMERCE | CO-1. To impart knowledge about the various stages of research process and their application in commerce and management education.<br>CO-2. The aim of courses to be provides the students with an introduction to research methods and report writing.<br>CO-3. To develop understanding on various kinds of research, objectives of doing research, research design and sampling.<br>CO-4. Have basic awareness of data analysis and hypothesis testing<br>procedure. |
| 3 | M.C.203 FINANCIAL MANAGEMENT AND POLICY | CO-1. Skill to manage financial resources of a company.<br>CO-2. Knowledge about the various sources of finance available to businessmen these days.<br>CO-3. Ability to select an investment proposal by analyzing the compounded and discounted value of money invested.<br>CO-4. To acquaint the students regarding the various types of decisions taken by financial managers in current competitive environment.<br>CO-5. To enable students to select an investment project out of alternative investment proposal. |
| 4 | M.C.204 PRODUCTION ANDMATERIALS MANAGEMENT | CO-1. To impart knowledge regarding production and management techniques.<br>CO-2. To understand the production process and tools.<br>CO-3.To acquaints the students with the knowledge of marketing function and techniques.<br>CO-4. To give knowledge about functions and quality control techniques.<br>CO-5. To give details about strategic importance, layout of production and materials management. |
| 5 | M.C.206 BUSINESS POLICY &STRATEGIC MANAGEMENT | CO-1. Familiarization with the strategic management process.<br>CO-2.Understanding about the techniques to scan an environment and the role of environment scanning in hurdle less strategic management of an organization.<br>CO-3.Understanding about the equal importance of strategy formulation and strategy implementation.<br>CO-4.Clarity about the strategies followed by different |

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| | | companies in the corporate world.<br>CO-5. To make students understand and formulate different strategies at business level and corporate level. |
| 6 | M.C. 205 - OPERATIONS RESEARCH | CO-1.To make students understand the concepts and techniquesof Operations Research for business decision making.<br>CO-2. Identify and develop operational research models from the verbal description of the real system.<br>CO-3. Understand the mathematical tools that are needed tosolve optimization problems.<br>CO-4. Develop a report that describes the model and the solving technique, analyze the results and propose recommendations in language understandable to the decision-making processes in Management Engineering. |
| 7 | M.C. 207 Summer training and project report | CO-1: This will help the students gaining practical experience by applying metholodogies in commerce in real industries. |

**M.com Semester- III**

| Sr. No. | Name of the Course | Course Outcomes |
|---|---|---|
| 1 | M.C.301 Business PerformanceMeasurement | CO-1. To study techniques of measuring corporate performance.<br>CO-2. To study techniques of enhancing corporate performance.<br>CO-3. Comparison of traditional and modern techniques of Performance Measurement.<br>CO-4.Steps of setting SMART goals and achieving the same. |
| 2 | M.C.302 TAX PLANNING ANDMANAGEMENT | CO-1. To enable students to understand various aspects of corporate planning with a view to derive maximum possible tax benefits.<br>CO-2. To familiarize the students with the latest updates of tax law.<br>CO-3.To enable students to understand tax implications for different forms of business.<br>CO-4. To understand the implications of GST on the taxable capacity consumers, dealers and of the society at large and its changes.<br>CO-5. To make them to be a tax consultant in preparing the tax planning, tax management, payment of tax and filing of tax returns. |
| 5 | MC. 305 Human Resource Development | CO-1. : Build an understanding, perspective and appreciation for HRD as discipline, process and activity. |

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| | | CO-2: Critically evaluate the exiting theoretical edifice of HRD inorder to draw a sketch of HRD relevant in present times.<br>CO-3: Develop skills to assess need for HRD intervention, designlearning and development programs and evaluation of HRD programs.<br>CO-4: Develop a perspective to understand organizational dynamics and learning challenges possessed by organizational and social complexities.<br>CO-5: Integrate human with technology and other emerging realities in order to understand how theory unfolds itself in present world of practice. |
| 6 | MC. 306 Industrial Relations | CO-1. To give knowledge about industrial relations.<br>CO-2. To make them understand the importance of industrial relations for an organization.<br>CO-3. To give knowledge about trade unions, role of trade unions, trade unions in different countries.<br>CO-4.To give knowledge about dispute resolution and to impart knowledge of labor welfare.<br>CO-5.To impart knowledge of trade union act 1926 |
| 5 | MC. 313 - BANK MANAGEMENT | Co-1. To acquaint the participants with the operations and functions of corporate investment and retail bankers.<br>CO-2. To acquaint the participants with the Non-performing assets ant their management.<br>CO-3. To acquaint students with various facets of E-Banking and security measures to be taken.<br>CO-4. To familiarize students with the banking structure in India. |
| 6 | MC. 314 - INSURANCE MANAGEMENT | CO-1. To familiarizing the participants with the concept of insurance, the risk and its management and their structure along with the legal dimensions involved.<br>CO-2. To provide the knowledge of Insurance Company'sManagement.<br>CO-3. To aware students about various general and life insurance policies and rules and regulations involved in it.<br>CO-4. To give detailed knowledge about contract of insurance and the principles on which it stands. |
| 7 | MC. 315- WORKSHOP ON FINANCIAL MARKETS AND INSTRUMENTS | CO-1. To inculcate adequate presentation skills in students.<br>CO-2. Detailed knowledge about financial markets.<br>CO-3. To impart depth knowledge of derivatives and factoring. |

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| | | CO-4. Detailed study on capital market, money market and stock market.<br>CO-5.To give complete picture on mutual funds. |

**M.com Semester- IV**

| Sr. No. | Name of the Course | Course Outcomes |
|---|---|---|
| 1 | M.C.401 PROJECT PLANNINGAND CONTROL | CO-1. Manage the scope, cost, timing, and quality of the project, at all times focused on project success as defined by project stakeholders.<br>CO-2.Align the project to the organization's strategic plans and business justification throughout its lifecycle.<br>CO-3.Identify project goals, constraints, deliverables, performance criteria, control needs, and resource requirements in consultation with stakeholders.<br>CO-4. Implement project management knowledge, processes, life cycle and the embodied concepts, tools and techniques in order to achieve project success. |
| 2 | M.C.402 KNOWLEDGE MANAGEMENT<br>. | CO-1. To aware the students about the details of knowledge management.<br>CO-2. To create knowledge about the concept in changing scenario.<br>CO-3.To discusses its significance in framing the business strategy.<br>CO-4. To discuss knowledge management as a tool of excellence.<br>CO-5. To give details of knowledge management system. |
| 3 | M.C.403 BUSINESS ETHICS ANDCORPORATE GOVERNANCE | CO-1. To create a framework for effective corporate governance by understanding the role and responsibility of different stakeholders in large corporate and how their interplay results in alternate governance structures in different countries.<br>CO-2: To appreciate the accountability of corporationstowards its stakeholders and society and to create an integrated value framework for Sustainability.<br>CO-3: To serve as an effective board member, build professional boards and as senior managers contribute to strengthening board performance.<br>CO-4: To know about rights and responsibilities of shareholders. |

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| | | CO-5: To build and monitor systems that has strong internal control to prevent corporate frauds.<br>CO-6: To appropriately address ethical issues such as conflicts of interest and insider trading. |
| 4 | MC. 407 ORGANISATIONAL CHANGE AND DEVELOPMENT | CO-1. To impart basic knowledge about change management.<br>CO-2. To learn theories of processed change.<br>CO-3. Detailed comparison of coaching and mentoring.<br>CO-4. To study about OD interventions in detail. |
| 5 | MC. 408 TRAINING ANDDEVELOPMENT | CO-1. To familiarize the students with basic concepts and principles of training and development of human resource.<br>CO-2. To train them to understand the learning environment of a firm. CO-3.The knowledge so obtained will make them capable of providing training to human resource of a business firm.<br>CO-4. To create awareness about assessment of training needs and curriculum development.<br>CO-5. To discuss the emerging pattern of training and development in India. |
| 6 | MC. 409 COMPENSATION MANAGEMENT | CO-1. To promote understanding in issues related to compensation in corporate sector.<br>CO-2. To provide knowledge about skills in designing, analyzing and restructuring compensation management system, policies and strategies.<br>CO-3. How compensation be used as a motivational tool?<br>CO-4. To provide in depth knowledge regarding how to frame compensation policy for corporate directors, senior managers,R & D Staff, Sales Executive etc.<br>CO-5. Students learn about the role of trade unions in compensation management. |
| 7 | MC 422: COMPREHENSIVE VIVA VOCE | CO-1: The VIVA-VOCE will be based on the content of the subjects studied by the student during the all four semesters.It is focused to give students the opportunity to present their knowledge gained throughout the four semesters. |

## Course Outcomes

## Name of the Course- M.COM (Accounting and Finance)

**M.Com (Accounting & Finance) Semester I**

| Sr. No. | Name of the Course | Course Outcomes |
|---|---|---|
| 1 | MAF6101: ORGANISATIONAL BEHAVIOUR | CO-1. To emphasizes the importance of human capital in today's organisations.<br>CO-2. To gives an insight to the students regarding individual and group behavior in any organisation.<br>CO-3. To impart knowledge about organization structures, organizational culture, organization development.<br>CO-4.To impart knowledge of stress management, conflict management.<br>CO-5.To give knowledge about motivation, leadership, group decision- making and communication. |
| 2 | MAF6102: ADVANCED ECONOMIC THEORY | CO-1. To acquaint students with the concepts of economic theory and their use in business decision making.<br>CO-2. The effort is to make them capable of using various concepts to deal with business problems in a global economic environment.<br>CO-3. To understand the role of managers informs.<br>CO-4. To analyze the demand and supply condition and access the position of a company.<br>CO-5. To design competitive strategies including pricing, marketing |
| 3 | MAF6103: INTRODUCTION TOQUANTITATIVE METHODS | CO-1. To acquaint the students with various statistical tools and techniques used for business decision making with emphasis on their applications to business and economic situations.<br>CO-2. |
| 4 | MAF6104: FINANCIAL MANAGEMENT | CO-1.To acquaint students with the basic analytical techniques and methods of financial management of business firms.<br>CO-2.The course also provides students an exposure to certain sophisticated and analytical techniques that are used for taking financial policy decisions. |
| 5 | MAF6105: BUSINESS ENVIRONMENT : | CO1- To expose the students to the effect of various national and global environmental factors on business processes.<br>CO-2. To enable them to scan business opportunities and take decisions under uncertainty. |
| 6 | MAF6106: WORKSHOP ON | CO-1.This course aims at developing skills in handling |

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| | COMPUTER APPLICATIONS | computer and its use as a strategic resource in management.<br>CO-2. To enable students in applying various computer applications in work arena. |
| 7 | MAF6107: WORKSHOP ONCOMMUNICATION SKILLS | CO-1. This course aims at developing the communication skillsof students – both written and oral.<br>CO-2.The students will learn how to analyze cases and prepare case reports. |

## M.Com (Accounting & Finance) Semester II

| Sr. No. | Name of the Course | Course Outcomes |
|---|---|---|
| 1 | MAF6201: MANAGEMENT ACCOUNTING | CO-1. This course aims to acquaint the students about the role, concepts, techniques and methodology relevantto accounting function<br>CO-2. To impart knowledge regarding the use of cost accounting information in managerial decision making |
| 2 | MAF6202: MANAGEMENT OFFINANCIAL SERVICES | CO-1.This course aims at acquainting the students withthe developments in the areas of financial services .<br>CO-2. To develop their skills to manage financial services .CO-3. To give an insight into the strategic, regulatory, operating and managerial issues concerning various financial services. |
| 3 | MAF6203: MERGERS ANDACQUISITIONS | CO-1. This course is an overview of corporate restructuring transactions that aims to develop an understanding of mergers and acquisitions (M&A) as a significant economic activity taking place in today's economy.<br>CO-2. It will expose students to transactions significantly affecting the corporation's assets, liabilities and/or equity claims .<br>CO-3. To explain students various real-life examples ofmergers and acquisitions of big corporations. |
| 4 | MAF6204: CORPORATE TAXATION | CO-1. To develop an understanding of issues related to taxation for corporate entities .<br>CO-2. To enable students for decision making management to facilitate constructive planning of tax liability. |
| 5 | MAF6205: RESEARCH METHODOLOGY | CO-1. To course attempts to expose the students to the basic concepts of research methodology . |

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| | | CO-2. The aim of courses to be provides the students with an introduction to research methods and report writing.<br>CO-3. To develop understanding on various kinds of research, objectives of doing research, research designand sampling.<br>CO-4. Have basic awareness of data analysis and hypothesis testing procedure. |
| 6 | M.C. 207 SUMMER TRAININGAND PROJECT REPORT | CO-1: This will help the students gaining practical experience by applying metholodogies in commerce in real industries. |

## M.Com(Accounting & Finance) Semester III

| Sr. No. | Name of the Course | Course Outcomes |
|---|---|---|
| 1 | MAF7101: STRATEGIC COSTMANAGEMENT | CO-1. To clarify how to use different techniques of cost management with a strategic perspective.<br>CO-2. Make familiar regarding demand forecasting, plant layout, location and supply chain management related decisions.<br>CO-3. To have adequate knowledge about work study and work measurement. |
| 2 | MAF7102: MULTINATIONAL BANKING | CO-1. To familiarize students with the importance and techniques used for effective operations and working of the multinational banks.<br>CO-2. To aware students with multinational banking reforms and problems. |
| 3 | MAF7103: FINANCIAL REPORTING AND ANALYSIS | CO-1. To prepare students to interpret and analyze financial statements effectively<br>CO-2. Students learn about the various reporting issuesat the national and international level.<br>CO-3. To provide conceptual knowledge of framework of FASB and IASB.<br>CO-4. To study about the recent trends in FR in the Indian Contest. |
| 4 | MAF7104: SECURITY ANALYSISAND PORTFOLIO MANAGEMENT | CO-1. To acquaint students with the theoretical and practical aspects of investment analysis for security selection and portfolio management purposes.<br>CO- 2. Construct optimal portfolios and illustrate the |

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| | | theory and empirical applications of asset pricing models.<br>CO-3. Explain macro and industry analysis, equity valuation, financial statement analysis and technical analysis.<br>CO-4. Analyze bond prices and yields and fixed-incomeportfolios.<br>CO-5. Characterize the implications of the market efficiency evidence on active portfolio management. |
| 5 | MAF7105: BANK MANAGEMEN T | CO-1. To acquaint the participants with the operations and functions of corporate investment and retail bankers.<br>CO-2. To acquaint the participants with the Non-performing assets ant their management.<br>CO-3. To acquaint students with various facets of E-Banking and security measures to be taken.<br>CO-4. To familiarize students with the banking structure in India. |
| 6 | MAF7106: INSURANCE MANAGEMENT | CO-1. To familiarizing the participants with the concept of insurance, the risk and its management and their structure along with the legal dimensions involved.<br>CO-2. To provide the knowledge of Insurance Company'sManagement.<br>CO-3. To aware students about various general and life insurance policies and rules and regulations involved in it.<br>CO-4. To give detailed knowledge about contract of insurance and the principles on which it stands. |

## M.Com(Accounting & Finance) Semester IV

| Sr. No. | Name of the Course | Course Outcomes |
|---|---|---|
| 1 | MAF7201: BUSINESS ETHICSAND CORPORATE GOVERNANCE | CO-1. This course considers the stance of ethics and ethical conflict as well as the role of corporate governance and its increasing impact in the management of organisations.<br>CO-2: To appreciate the accountability of corporations towards its stakeholders and society and to create an integrated value framework for Sustainability.<br>CO-3: To serve as an effective board member, build professional boards and as senior managers contribute to |

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| | | strengthening board performance.<br>CO-4: To know about rights and responsibilities of shareholders.<br>CO-5: To build and monitor systems that has strong internal control to prevent corporate frauds. |
| 2 | MAF7202: MANAGEMENT CONTROL SYSTEMS | CO-1. This course facilitates students to gain knowledge, develop insight and analytical skills related to design and implementation of management control systems in organisations.<br>CO-2. To make them familiar with modern control techniques.<br>CO-3. To enable students to assess the goals of a companyn in terms of productivity, profitability or efficiency. |
| 3 | MAF7203: INTERNATIONAL FINANCIAL MANAGEMENT | CO-1.This course aims to introduce the environment of international finance and its implications on international business.<br>CO-2. Knowledge about the various sources of finance available to businessmen these days.<br>CO-3. Ability to select an investment proposal by analyzing the compounded and discounted value ofmoney invested.<br>CO-4. To acquaint the students regarding the various types of decisions taken by financial managers in current competitive environment.<br>CO-5. To enable students to select an investment project out of alternative investment proposal. |
| 4 | MAF7204: PROJECT MANAGEMENT AND CONTROL | CO-1.This course aims to advance a sound understanding of the theory and practice of project management.<br>CO-2.Align the project to the organization's strategic plans and business justification throughout its lifecycle.<br>CO-3.Identify project goals, constraints, deliverables, performance criteria, control needs, and resource requirements in consultation with stakeholders.<br>CO-4. Implement project management knowledge, processes, life cycle and the embodied concepts, tools and techniques in order to achieve project success. |
| 5 | MAF7205: FINANCIAL | CO-1.This course aims at enabling the students to |

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| | ENGINEERING | understand and analyze investment problems.<br>CO-2. To develop their skills for the solution of these problems with the help of innovative financial processes, instruments and strategies.<br>CO-3. To provide students with comprehensive technical knowledge o derivative pricing, investment strategies and portfolio management. |
| 6 | MC 422: COMPREHENSIVE VIVAVOCE | CO-1: The VIVA-VOCE will be based on the content of thesubjects studied by the student during the all four semesters. It is focused to give students the opportunityto present their knowledge gained throughout the four semesters. |

# R.S.D. COLLEGE

**FEROZEPUR CITY (152002)**

## FACULTY OF GUIDANCE & COUNSELING

# Programme Outcomes (POs)

**and**

# Course Outcomes (COs)

**Guidance and counseling (certificate Course)**

| Course | OUTCOMES( AFTER COMPLETION STUDENTS WILL BE ABLE TO-) |
|---|---|
| INTRODUCTION TO GUIDANCE | 1. To understand the meaning, principles, needs and types of guidance<br>2. To have a detailed knowledge about various guidance services<br>3. To organize guidance programme in elementary and secondary schools<br>4. To develop skills in using technology for guidance purpose |
| INTRODUCTION TO COUNSELLING | 1. To understand the meaning, types and techniques of counseling<br>2. To learn about approaches of counseling<br>3. To develop counseling skills in conducting counselingsessions<br>4. To learn about new emerging areas of counseling |

## GUIDANCE AND COUNSELLING (DIPLOMA)

| PAPER | OUTCOME(AFTER COMPLETION STUDENTS WILL BE ABLE TO-) |
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| EDUCATIONAL AND PSYCHOLOGICAL APPRAISAL | 1. To understand the concept of educational and psychological appraisal<br>2. To know the criteria of selection of a test and characteristics of a good test<br>3. To learn to administer and interpret psychological tests to know the individual abilities and personality aspects<br>4. To make appropriate use to achievement and diagnostic test in locating learning difficulties<br>5. To master elementary statistics and apply it in student's appraisal |
| COUNSELLING CHILDRE AND ADOLESCENTS WITH DIFFERENT ABILITES | 1. Understanding the needs and problems of children and adolescents with exceptional abilities 2. Identification of academic, social, emotional and vocational problems of students<br>3. Conducting individual and group counseling<br>4. Preparing case history, doing case analysis and preparing profile of the case |

# RSD COLLEGE, FEROZEPUR CITY

## DEPARTMENT OF EDUCATION (B.A.B. ED)

## 2021-22

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| **PROGRAMME OUTCOMES** | **PO1-**Students will apply their knowledge of core content and pedagogy to set goals and objectives for learning based on state and national standards and local curriculum, and design instruction that engages students in meaningful learning.<br><br>**PO2-**Students will demonstrate their understanding of cognitive, affective, and psycho motor domains, and other characteristics of their diverse learners, and create an environment of respect, rapport, collaboration and a culture for learning.<br><br>**PO3-**. Students will design and deliver meaningful learning experiences for all students by integrating their knowledge of content, pedagogy, the learner and the learning environment by engaging in the reflective instructional cycle of planning,instruction, feedback and assessment.<br><br>**PO4-**. Students will demonstrate their commitment to continuous self-improvement by engaging in collaboration, reflective practice,and research to enhance their teaching skills. |

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| **PROGRAMME SPECIFIC OUTCOMES** | **PSO1-**. Students will demonstrate leadership by participating in the implementation of the vision and mission of the institute, strategic planning/continuous improvement, curriculum initiatives,student support and management systems; and demonstrate a commitment to ethical and equitable behavior.<br><br>**PSO2-**. Students will model and apply the National Educational Technology Standards for Teachers (NETS-T) as they design, implement, and assess learning experiences by engaging students through creative and innovative endeavours.<br><br>**PSO3-**. Students will engage in culturally responsive and inclusive teaching practice to help all students regardless of their language, culture, race, geographic location, special needs, or poverty and facilitate learning through collaboration among teachers and students, developing students' competence and potential.<br><br>**PSO4-**. Students will use effective and appropriate verbal, nonverbal, written, and media communication techniques in their |

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| | teaching, professional collaboration, and interactions with students, colleagues, parents, and the community.<br>**PSO5**-Students will demonstrate a disposition of professionalism, efficiency, and integrity in their teaching and interactions with students, colleagues, parents, and the community. |

| **COURSE OUTCOME(Semester1)** | **(A**fter completion students will be able to-) |
|---|---|
| **Paper code –EDUC01** EDUCATION IN EMERGING INDIAN SOCIETY | CO1-Describe development of Indian education from ancientperiod to an independent nation.<br>CO2-Describe the recommendations of various commissionssince independence.<br>CO3- State various provisions of education in Indianconstitution.<br>CO4- Explain in detail the role of education in social andcultural change.<br>CO5- Explain the relationship of education with economicissues such as poverty, inequality & unemployment |
| **Paper code –EDUC02** SCHOOL ORGANIZATIO N ANDADMINISTRATION | CO1- Differentiate between the concepts of school administration, school organization and school management.CO2-Describe a school plant and its components.<br>identify the need, scope and purpose of educational planning interms of national and community needs.<br>CO3- Acquire knowledge of duties of school head and teachersCO4- Understand the concept of institutional planning and prepare an institutional plan.<br>CO5- Acquire knowledge about the preparation of time table & maintenance of different school records and registers |
| **PAPER III: BABED-ENGC11: ENGLISH (COMPULSORY)** | CO1. Make use of competence in all the four skills i.e.Listening, Speaking, Reading and Writing.<br>CO2. Describe and use new pedagogic practices in the teachingof both language and literature.<br>CO3.Devise and promote student centric pedagogic techniquesfor the teaching of English.<br>CO4. Describe implications of teaching/learning languagethrough literature. |
| **PAPER IV: BABED-PBIC11: PUNJABI (COMPULSORY)** | ● fJ; g/go dk wzst eftsk dh g[;se dk fBeNnfXn?B eoBk j?.<br>● gzikph ;kfjs ftu ethnK dhnK ouBKtK pko/ ikDekoh d/Dk j?. |

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| | • ouBk ftu'A ftukoK B{z rqfjD eoB dh ;{Mg?dk eoBk.<br>• ftnkeoD ftu ftnkeoD dh gqhGkôk, b/y s/ ;zy/g ouBk pko/ ;{M d/Dk j?. |
| **BABED-ENGO11 ENGLISH (Elective)** | CO1 Make use of competence in all the four skills i.e. listening,speaking , reading and writing.<br>CO2 Describe implications of teaching/learning languagethrough literature.<br>CO3 Develop the power of imagination through literature. |
| **BABED-PBIO11 PUNJABI (ELECTIVE)** | • fJ; g/go dk wzst ftfdnkoEhnK dh nkX[fBegzikph eftsk ;zpzXh ikDekoh B{z j'o ft;Eko d/Dk j?.<br>• gzikph ;kfjs d/ fJfsjk; ftZu ftfdnoEhnKdh fdbu;gh g?dk eoBk j?.<br>• ;kfjs d/ o{gK pko/ v{zxh ikDekoh d/Dkj?. |
| **HISTORY : BABED-HISO11 HISTORY OF INDIA UPTO 1200 A.D** | CO1 Describe history in the context of Indian geography andsocio-cultural milieu before 1200 A.D.<br>CO2 Explain , analyse and relate major political, social, religious and cultural changes of the time from beginning ofIndus-valley civilization up to the rise of Rajput powers. |
| **POLITICAL SCIENCE BABED- POLO11 POLITICALTHEORY- I** | CO1 Differentiate the concept of political science and politics.29<br>CO2 Describe and discriminate the various ancient, traditionaland modern political theories.<br>CO3 Describe relationship between political science and othersocial sciences and education.<br>CO4 Explain the concept of state and its importance.<br>CO5 Discuss the relationship of state with other institutions i.e.the government, society, association and the nation.<br>CO6 Describe and discriminate the theories of the origin ofstate like evolutionary and social contract |
| **ECONOMICS BABED-ECO-O11 MICRO ECONOMICS** | CO1 Describe the origin of economics.<br>CO2 Explain the various types and time periods of production.<br>• describe the various forms of markets.<br>CO3 Develop rudimentary understanding of how and why consumers, firms, and markets in the economy function theway they do. |

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| | CO4 Know the functioning of competitive and non-competitiveproduct markets and performance of the markets for resources. |
| **SOCIOLOGY BABED-SOCO11 FUNDAMENTALS OF SOCIOLOGY** | CO1 describe fundamentals of sociology to the beginners of thesubject;<br>CO2 describe about sociology as a discipline.<br>CO3 discuss study of various terms, concepts and processes which help in formulating a sociological viewpoint and an easycomprehension of the discipline at later stages. |
| **MATHEMATICS BABED-MATO11** | CO1 Apply transformation of axes, rotation of axes &invariants.<br>CO2 Understand the basic concepts of plane geometry w.r.t.Pair of straight lines, circle & conic.<br>CO3 Describe the special properties of parabola, ellipse &hyperbola.<br>describe concept of differential calculus like e-s definition of limit of function, continuity of functions and classifications ofdiscontinuities.<br>CO4 Understand and apply the rule of successive differentiation.<br>CO5 Use different mean value theorems. |

| **COURSE OUTCOME(Semester2)** | **(A**fter completion students will be able to-) |
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| **PAPER CODE-EDUC03** | CO1- Define the concept of education and give details of itsparameters.<br>CO2- Identify the relationship between philosophy and education.<br>CO3- Identify the relationship between sociology andeducation.<br>CO4- Describe the philosophy of the educational thinkers,prescribed in the syllabus.<br>CO5-Identify the relationship of education with socio-culturalchange, modernization and social mobility. |
| **PAPER CODE – EDUC04** | CO1- Describe concept of educational psychology and explainits significance<br>CO2- Discuss the meaning of intelligence, measurement andtheories.<br>CO3- Understand individual differences, their meaning, areas& role in individual development. |

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| | CO4- Understand the nature and needs of exceptionalchildren.<br>CO5- Understand the recent trends in the education ofexceptional children. |
| PAPER III: BABED-ENGC21: ENGLISH COMPULSORY | CO1 Make use of competence in all the four skills i.e.Listening, Speaking, Reading and Writing.<br>CO2 Describe and use new pedagogic practices in theteaching of both language and literature.<br>CO3 Describe implications of teaching/learning languagethrough literature. |
| PAPER IV: BABED-PBIC21: PUNJABI (COMPLUSORY) | 1. fJ; g/go dk wzst ejkDh dh g[;se dk fBeNnfXn?B eoBk j?.<br>2. ftfdnkoEhnK B{ zejkDhekoK dhnK ouBktK s 'A ikD{ eotkT[Dk j?. ftnkeoD ftu X[Bhrqkw,;to X [BhnK s/ ftnziB X[BhnK pko/ikDekoh d/Dk j?.<br>3. ftfdnkoEhnK B{z o'÷kBk fizdrh ftu tos'A ftu bJh ;{uBk fjZs B'fN; fbyDkf;ykT[Dk. |
| ENGLISH (ELECTIVE) BABED-ENGO21 | CO1 Make use of competence in all the four skills i.e.Listening, speaking , reading and writing.<br>CO2 Describe implications of teaching/learning languagethrough literature.<br>CO3 Develop the power of imagination through literature |
| PUNJABI (ELECTIVE) BABED-PBIO21 | ● fJe g/go dk wzst ftfdnkoEhnK dh nkX[fBeeftsk ;zpzXh ikDekoh B{z j'o ft;Eko d/Dk j?.<br>● Bktb okjhA gzikp d/ g/Av{ ;fGnkuko s'AikD{ eotkT[Dk j?.<br>● gzikph ;kfjs d/ fJfsjk; ftZu ftfdnkoEhnK dh fdbu;gh g?dk eoBk j?.<br>● Bktb d/ fJfsjk; pko/ v{zxh ikDekohd/Dk j?.<br>● gzikph ;kfjs nkb'uBk pko/ ikDekohd/Dk. |
| HISTORY: BABED-HISO21 HISTORY OF INDIA 1200-1750 A.D | CO1 Discuss the history of Medieval India.<br>CO2 Discuss the important phases of Indian history with thebeginning of Turkish invasion which had tremendous influence in Indian society and polity. |

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| | CO3 Discuss the politics and establishment of new forms ofpolitical institution from the period 1200 to 1750 A.D. |
| POLITICAL SCIENCE BABED-POLO21 POLITICAL THEORY-II | CO1 Describe and differentiate the meaning and features ofthe concept of power, authority and legitimacy;<br>CO2 Explain the meaning, characteristics and significance ofthe term political culture;<br>CO3 Discuss the meaning of political socialization, its relevance and different agents of political socialization; CO4 Analyze the interrelationship between political cultureand political socialization;<br>CO5 Understand the concept of rights and duties of education; |
| ECONOMICS BABED-ECO-O21<br>MACRO-ECONOMICS | CO1 This paper aims to familiarize the student with thegenerally accepted principles of macroeconomics.<br>CO2 It deals with aggregates i.e. consumers as a whole, producers as a whole, exporters and importers as a whole, theeffects of government spending and taxation, and the monetary policy of the central bank.<br>CO3 The course includes the basic theories of determination of income, consumption, investment, employment, money andinterest, inflation, Monetary and Fiscal policies, and business cycles. |
| SOCIOLOGY BABED-SOCO21 SOCIAL STRATIFICATION | CO1 Describe concept and meaning of social stratification.CO2 Explain elements of social stratification.<br>CO3 Analyse the theories of social stratification.<br>CO4 Describe the concept, meaning and indicators of socialmobility. |
| MATHEMATICS BABED-MATO21 | CO1 Understand the various concepts related to sphere,cylinder, cone and conicoid.<br>CO2 Discuss the curvature of a curve at a point.<br>CO3 Describe the reduction formulae. Apply the definiteintegrals in finding the volumes and surfaces of solids ofrevolution.<br>CO4 Find out the relation between roots and co-efficient. CO5 Describe the newton's method of divisors.<br>CO6 Explain the Descartes's and Ferrari's method for a bi-quadratic. |

| COURSE OUTCOME(Semester3) | (After completion students will be able to-) |
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| **PAPER I: BABED-EDUC05: HUMAN DEVELOPMENT** | ● Describe the concept of human development and its significance for Education.<br>● Discuss the principles of human growth and development.<br>● Describe the role of education in development and growth.<br>● Enumerate different stages of growth and development inthe life span of human being. Describe characteristics features of each stage.<br>● Explain various theories of human development. |
| **PAPER II: BABED-EDUC06: SCHOOL COMMUNITY PARTICIPATION** | ● Describe the concept of universalisation of elementary education and its significance.<br>● Discuss concept of sarv shiksha abiyan and its implementation.<br>● Define the meaning and concept of life long education.<br>● Describe concept and implementation of vocationalizationof education.<br>● Understand the role of NCERT, SCERT, SIE, DIET,village education<br>● Committees, NGO's and parent-teacher associations. |
| **PAPER III: BABED-ENGC32: ENGLISH (COMPULSORY)** | ● Make use of competence in all the four skills i.e. Listening, Speaking , Reading and Writing.<br>● Describe and use new pedagogic practices in the teachingof both language and literature.<br>● Devise and promote student centric pedagogic techniquesfor the teaching of English.<br>● Describe implications of teaching/learning languagethrough literature. |
| **PAPER- IV: BABED-PBIC32: PUNJABI (COMPULSORY)** | ● fJ; g/go dk wzst ftfdnkoEhnK B{z fBpzXs'A ikD{ eotk [Dk j?.<br>● fBpzX dk pj[-gyh nfXn?B eoB dh ;{M g?dkeoBk j?.<br>● fBpzXekoK dh ;kfjse y/so ftu G{fwekB{z fBôfus eoBk j?.<br>● fuZmh gZso okjhA ftukoK d/ soshp pZXgqrNkU B{z T[GkoBk j?.<br>● gzikph Gkôk pko/ ikDekoh gqdkB eodk j?. |

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| **ENGLISH (ELECTIVE) BABED-ENGO32** | ● Make use of competence in all the four skills i.e. Listening, speaking , reading And writing.<br>● Describe implications of teaching/learning language through literature.<br>● Develop the power of imagination through literature. |
| **PUNJABI (ELECTIVE) BABED-PBIO32** | ● fJ; g/go dk T[d/ô ftfdnkoEhnK B{z wZXekbh gzikph eftsk pko/ ikDekohd/Dk j?.<br>● ;coBkw/ ftZu ftfdnkoEhnK dh fdbu;gh irkT[Dk j?.<br>● gzikph ;kfjs d/ fJfsjk; d/ sZEK B{z fBôfus eoBk j?. ejkDh ;kfjso{gK s'A ftfdnkoEhnK B{z ikD{ eotkT[Dk j?.<br>● Gkosh ekft ôk;so ns/ Gkôk tzBrhnK pko/ ikDekoh d/Dk. |
| **HISTORY: BABED-HISO32 HISTORY OF INDIA 1750-1964 A.D** | ● Discuss the broad developments in the historyof india in modern times.<br>● Describe the cause for the rise of british powerin india.<br>● Describe with a focus on the rise of national consciousness against the british colonialism in 1857.<br>● Describe the role of nationalist leaders like gandhi and other political leaders in freedom struggle of india.<br>● Describe and differentiate various socio-religious reform movements for modernizing india.<br>● Explain the growth of communal politics and ideology that became an important cause of partition of india. |

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| POLITICAL SCIENCE<br>BABED-POLO32<br>INDIAN GOVERNMENT AND POLITICS | • Describe the making of india's constitution, composition and characteristics of the constituent assembly.<br>• Highlight the nature of indian constitutional system.<br>• Describe the nature and types of fundamental rights.<br>• Discuss the directive principals of state policy, meaning of directive principals of state policy, utility of directive principals and how they are different from fundamental rights.<br>• Explain the nature of indian federalism and centre-state relations. |
| ECONOMICS<br>BABED-ECOO32<br>PUBLIC FINANCE AND INTERNATIONAL ECONOMICS | • Describe the concept and scope of macro economics.<br>• Describe the various theories of income and employment.<br>• Discuss concept and functions of consumption and investment.<br>• Discuss concept and various theories of money and interest.<br>• Describe concept and process of banking and functions of commercial banks. |
| SOCIOLOGY<br>BABED-SOCO32<br>SOCIAL STRUCTURE | • Describe meaning ,characteristics and elementsof social structure.<br>• Discuss the concept, types and factors of social change.<br>• Explain different processes of social change. |
| MATHEMATICS<br>BABED-MATO32 | • State definitions of various mathematical terms required in the course.<br>• Derive the tests and theorems prescribed in the statement of the syllabus.<br>• Explain limits and continuity of functions of two and three variables. |

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| | ● State and prove various theorems related to advanced calculus. |

| **COURSE OUTCOME (Semester4)** | **(A**fter completion students will be able to-) |
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| **PAPER- I: BABED-EDUC07: CURRICULUM DEVELOPMENT AND EVALUATION** | ● Describe the nature and characteristics of curriculum.<br>● Explain the various foundations & components of curriculum.<br>● Differentiate among goals, aims & objectives.<br>● Differentiate among general objectives, course objectives and lesson objectives.<br>● State levels of course content.<br>● Discuss the need & guiding principles of curriculum development |
| **PAPER-II: BABED-EDUC08: GUIDANCE AND COUNSELLING** | ● Explain the nature and scope of guidance and counselling.<br>● Discuss the need and principles of guidance and counseling.<br>● Understand different types of guidance.<br>● Explain different types of tools and techniques, their needs and<br>Importance.<br>● Describe various guidance and counselling services available in<br>Schools. |
| **PAPER III: BABED-ENGC42: ENGLISH (COMPULSORY)** | ● Describe and use new pedagogic practices in the teaching of both language and literature.<br>● Devise and promote student centric pedagogic techniques for the teaching of English.<br>● Describe implications of teaching/learning language through literature |
| **PAPER IV: BABED-PBIC42: PUNJABI (COMPULSORY)** | ● fJ; g/go dk wzst ftfdnkoEhnK ftu fJeKrh ;zpXh fBeN nfXn?B dh o[uh g?dk eoBk j?.<br>● fJeKrhekoK d/ :'rdkB pko/ ikDekoh d/Dk j?.<br>● ftnkeoD ftu gzikph dhnK ôpd ;q/DhnK pko/ ikDekoh d/Dk j?.<br>● ftnkeoD ftu gzikph dhnK T [gGkôktK dh gfjukD eotkT [Dk j?. |

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| **ENGLISH (ELECTIVE) BABED-ENGO42** | • Make use of competence in all the four skills i.e. Listening, speaking, reading and<br>• Writing.<br>• Describe implications of teaching/learning language through literature.<br>• Develop the power of imagination through literature. |
| **PUNJABI (ELECTIVE) BABED-PBIO42** | • Fj; g/go dk t[d/ô ftfdnkoehnk b{z wzxekbh gzikph eftsk ;zpzxh ;zg{ob ikdekoh d/dk j?.<br>• Ejkdh okjha ftfdnkoehnk d/ nb[gt bz{ j'o v{zxk pdkt[dk j?.<br>• Gzikph ;kfjs d/ fjfsjk; ;zpzxh szek b{z j'o ;gôn eobk j?.<br>• Ejkdh ;kfjs o{g pko/ ft;ekog{ote uouk eobk j?.<br>• ;kfjs nb'ubk pko/ ikdekoh d/dk. |
| **HISTORY: BABED-HISO42 HISTORY OF THE PUNJAB1469- 1849 A.D.** | • Discuss the broad developments in the history of the punjab from the mid 15th to the mid 19th century i.e. The medieval period.<br>• Explain the contributions of guru nanak dev, guru angad, guru amar das, guru ram das, guru arjun dev, guru hargobind, guru teg bahadur and guru gobind singh.<br>• Analyze various socio- religious reform movements.<br>• Explain ranjit singh's empire and its relationship with thebritish and significant<br>• Development that occurred during medieval period. |
| **POLITICAL SCIENCE BABED-POLO42 INDIAN POLITICS** | • Explain the party system in india, understanding national political parties, their<br>• Ideologies, organizations and electoral performances explain the process of e-governance, advantages and disadvantages<br>• Analyze the working of the election commission.<br>• Discuss the meaning of caste, its difference with polity, role of caste in election.<br>• Explain the meaning of religion and its relationship with politics, impact of<br>• Religion, region and language on politics. |
| **ECONOMICS** | • Explain the mathematical forms of economics. |

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| **BABED-ECOO42 QUANTITATIVE METHODS** | • Describe the average value , middle value and highest value under an equation.<br>• Explain how two equations are correlated with each other.<br>• Explain and solve the problem by taking some periods as base periods. |
| **SOCIOLOGY BABED-SOCO42 SOCIALINSTITUTIONS** | • Describe the concept of social institutions.<br>• Describe various institutions at society in objective and intrinsic way.<br>• Highlight characteristic features of social institutions like marriage, family and kinship.<br>• Describe political and cultural and economic institutions, their meaning, features and functions. |
| **MATHEMATICS BABED-MATO42** | • State definitions of various mathematical terms required in the course.<br>• Derive theorems related to differentiation and integration of transforms.<br>• Solve partial differential equations.<br>• Explain velocities and accelerations in its varietes as prescribed in the courses.<br>• Derive motions on different places and different media.<br>• . |

| **COURSE OUTCOME (Semester5)** | **(A**fter completion students will be able to-) |
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| **TECHNOLOGICAL BASES OF EDUCATION AND PEDAGOGY BABEDEDUC09** | Define educational technology and discuss its historical development.<br>Explain the concept, nature, phases, operations and levels of teaching.<br>Discuss concept of teacher behaviour and use techniques of modifyingteaching behavior.<br>Explain the concept of evaluation and its characteristics.<br>Describe the concept of teaching models and basic structure of teachingmodels.<br>Identify the components of GLASERS , AUSUBEL , TABA and BRUNERmodels of teaching. |
| **HEALTH AND YOGA EDUCATION BABED EDUC10** | • To enable the student teachers to develop an understanding of the importance,meaning,<br>• Concept, aims and objectives of health education.<br>• To enlighten the student teachers about infectious diseases and their control.<br>• To aware the students teachers about balanced diet.<br>• To impart knowledge to use good postures for various purposes and first aid. |

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| | ● To enable the pupil – teachers to know the historical and philosophical background of yoga. |
| **BABED ENGC53 ENGLIS H** | Make use of competence in all the four skills i.e. Listening, Speaking, Readingand Writing.<br>Describe the structure of poem, play and prose.<br>Describe and use new pedagogic practices in the teaching of both languageand literature |
| **BABED-PBIC53 PUNJABI** | ● fJ; g/go dk T[d/ô ftfdnkoEhnK B{z wZXekbhB gzikph ekftXkok s'A ikD{<br>● eotkT[Dk j?.<br>● ftukoK d/ soshppZX gqrNkt/ B{ z T[GkoBk j?.<br>● gzikph Gkôk ;zpzXh ft;Ekog{ote ;wM g?dk eoBk j?.<br>● ftnkeoD ftZu tkeK d/ G/dK pko/ ikro{e eotkT[Dk j?. |
| **BABED ECOO53** | ● Differentiate between economic growth and economic development.<br>● Analyze the various model and strategies of economic growth.<br>● Describe the concept of economic development.<br>● State the meaning of sustain development and how it is achieved. |
| **BABED ENGO53** | ● To enable them to approach a wide variety of literary texts and genres withcritically sensitive and analytical understanding.<br>● To introduce the students to the basic concepts of literature and also empowerthem to read, analyze and write about a poem, prose essay or drama in an independent manner.<br>● To teach finer nuances of literature and language through an integratedapproach<br>● To help and motivate for students to develop basic tools of analyzing a varietyof literary texts/genres. |
| **BABED HINO53** | jke/kjh flag fnudj d s dq:{ks= esa ls fn, x, pkj dkO;k'kksa d s lanHkZ esa O;k[;k fy[k saxs A<br>bUgh a dkO;k'kksa ij vk/kfjr vkykspukRed iz'uk sa ds mÙkj fy[ksaxsA<br>d q:{ks= laf{kIr rFkk x\| ij vk/kfjr iz'uk sa d s mÙkj nsaxsA<br>fucU/k] vkRedFkk] thouh] o laLej.k fo/kkvksa ij vk/kfjr rqyukRed iz'uk sa d s mÙkj fy[k saxsA<br>vyadkj dh ifjHkk''kk] fo'k s''krk,¡] o fn, x, vyadkjksa dk iz;k sx djsaxsA<br>vyadkjksa d s y{.k o mnkgj.k fy[k saxsA |
| **BABED-HISO53** | ● Discuss the impact of the colonial period on the region.<br>● Describe the formation of british administration.<br>● Describe the various movements of national importance. |
| **BABED MATO53** | Know about the countable & uncountable sets.<br>Solve the fundamental theorem and mean value theorems of integral calculus.<br>Explain the convergence of improper integrals.<br>Explain groups and related concepts & theorems.<br>Discuss rings, subring in details like gaussian and polynomial rings. |

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| **BABED POLO53** | ● Describe the main features of judicial organization in britain.<br>● Explain the concept of rule of law in uk.<br>● Describe the salient features of the american political system;<br>● Describe the features, organization and working of american party system |
| **BABED-PBIO53** | ● fJ; g/go dk wzzst ftfdnkoEhnK B{z g[oksB gzikph eftsk pko/ ft;fsqs ikDekoh d/Dk j?.<br>● gzikph BkNe pko/ o[uh g?dk eoBk j? ns/ BkNe ftub/ ftukoK B{z rqfjD eoB d/ ekfpb pDkT[Dk j?.<br>● gzikph ;kfjs d/ fJfsjk; s'A ikD{ eotkT[Dk j?.<br>● Gkosh ekft ôk;so ns/ ;kfjs o{gK pko |
| **BABED SOCO53** | ☐ Analyze the diversified indian society by focusing on social, political and economic<br>☐ Structure (institution) of various parts of the society i.e. Tribal , rural and urban.<br>☐ Explain the problems and challenges of disadvantage sections of the indian society. |

| **COURSE OUTCOME (Semester6)** | **(After completion students will be able to-)** |
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| **BABED-EDUC11 EDUCATIONAL RESEARCH & STATISTICS** | ☐ Explain the concept of educational research<br>☐ Differentiate between methods of educational research.<br>☐ Formulate hypotheses of research.<br>☐ Explain the applications of statistical techniques in education.<br>☐ Develop the skills to carry out research. |
| **BABED-EDUC12 VALUE EDUCATION** | ● Explain various intervention strategies for value inculcation in education.<br>● Describe tools of value inculcation<br>● Explain various bases of value education |
| **BABED-ENGC63 ENGLISH** | • Make use of competence in all the four skills i.e Listening, Speaking, Reading and Writing<br>• Describe and use new pedagogic practices in the teaching of both language and literature.<br>• Devise and promote student centric pedagogic techniques for the teaching of English. |
| **BABED-PBIC63 PUNJABI** | ● fJ; g/go dk T[d/ô ftfdnkoEhnK Bz{ gzikph Bktb pko/ ft;fsqs ikDekoh d/Dk j?.<br>● Bktb ftub/ GktK B{z rqfjD eoB d/ :'r pDkT[Dk j?.<br>● r[ow[yh fbgh d/ fJfsjk; s'A ikD{ eotkT[Dk j?.<br>● ftnkeoD ftu tke pDso pko/ ikDekoh d/Dk j?. |
| **BABED-ECOO63 ECONOMICS** | ● Explain the features and characteristics of the indian economy.<br>● Describe the performance and problems of industrial development,<br>● Explain the indian tax structure, external trade and balance of payments,<br>● Describe the objectives, strategy and performance of indian planning. |

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| **BABED-ENGO63**<br>**ENGLISH** | To enable them to approach a wide variety of literary texts and genres with critically sensitive and analytical understanding.<br>To introduce the students to the basic concepts of literature and also empower them to read, analyze and write about a poem, prose essay or drama in an independent manner.<br>To teach finer nuances of literature and language through an integrated approach<br>To help and motivate for students to develop basic tools of analyzing a variety of literary texts/genres. |
| **BABED-SOCO63**<br>**SOCIOLOGY** | ● Explain the concept and levels of social disorganization.<br>● Analyze the extent of various personal, familial and societal problems. |
| **BABED-HINO63**<br>**HINDI** | ¼ lkfgfR;d vkSj lkekftd fo"k;ksa ij fucU/k ys[ku dk vH;kl djus gsrq de ls de ik¡p fucU/k fy[ksaxsA+<br>+fucU/k] laLej.k] thouh rFkk vkRedFkk tSls x| fo/kvksa d s Lo:i vkSj rRoksa dk o'kZu djsaxsA<br>¼ x| Qqyokjh ij vk/kfjr fn, x, iz'uk sa dh vkykspuk fy[ksaxsA<br>¼ fu/kZfjr NUnk sa dk fgUnh Hkk"kk esa iz;k sx djsaxsA<br>¼ fucU/k ys[kudk fgUnh Hkk"kk esa iz;k sx djsaxsA |
| **BABED-HISO63**<br>**HISTORY** | ● To introduce the students to the modern period in world history.<br>● Explain the french revolution-causes and impact; continental system of napoleon.<br>● Describe unification of italy and germany<br>● Describe the new imperialism 1871-1914 |
| **BABED-MATO63**<br>**MATHS** | ● Define and exemplifier vector spaces , sub spaces of various types along with the related theorm.<br>● Discuss linear transformation , linear maps , matrices.<br>● Discuss characteristics, roots and vectors and variety of matrices.<br>● Understand the sequences and series of functions. |
| **BABED-POLO63**<br>**POLITICAL SCIENCE** | ● Explain the meaning and approaches to international politics.<br>● Analyze relevance of idealist and realist theories in contemporary international politics.<br>● Discuss meaning and genesis of collective security, and dilemma and relevance of Collective security. |
| **BABED-PBIO63**<br>**PUNJABI** | ● fJ; g/go dk wzst g[oksB gzikph eftsk pko/ ikDekoh d/Dk j?.<br>● fBpzX ftXk dk nfXn?B v{zxk eoBk j?.<br>● gzikph ;kfjs d/ fJfsjk; dh rfjB ikDekoh gqdkB eoBk j?.<br>● gZSwh ekft ôk;so Bkb ikD gSkD eokT[Dh j?.<br>● Gkôk ftfrnkB dh ikDekoh dk x/ok ftôkb eoBk j?. |

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| **COURSE OUTCOME** | **(A**fter completion students will be able to-) |

| **(Semester 7)** | |
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| PHILOSOPHICAL, SOCIOLOGICAL AND POLITICAL PERSPECTIVE | Explain the discipline of education in philosophical, sociological and political perspective<br>• discuss the contribution of eminent thinkers to education<br>• be aware of current acts in education<br>• discuss the role and functions of unesco & unicef |
| THE LEARNER NATURE AND DEVELOPMENT | Explain the various dimensions of personality of an individual<br>• describe the role of education in nurturing the creativity<br>• describe the concept of motivation<br>• explain the importance of mental health and ways and means to improve the mental Health<br>• explain the concept & factors of learning |
| THEORY OF INSTRUCTIONAL TECHNOLOGY | Explain the principles of instructional design and apply them to develop design of Instruction<br>• describe different media and their applications<br>• explain the concept, process and application of team teaching, group interaction ,<br>• discuss the need, concept and principles of self instruction programme |
| SCHOOL MANAGEMENT | Explain the various elements of school management<br>• explain the organization of various co-curricular activities<br>• enumerate the factors affecting classroom management<br>• explain the role and importance of various government agencies<br>• explain the significance & applications of tqm in education |
| INFORMATION & COMMUNICATION TECHNOLOGY (ICT) IN EDUCATION | Explain different parts of computer and their functions.<br>• explain various computer applications.<br>• run different software on computer.<br>• describe internet and its uses.<br>• able to use computer for enhancing teacher learning process |
| Teaching OF SOCIAL SCIENCES | Explain the aims and objectives of teaching social studies.<br>• explain different methods, devices and techniques of teaching social studies.<br>• analyze modern concepts and tools of evaluation.<br>• prepare and make effective use of teaching aids.<br>• develop various skills in questioning, explaining, map reading, set induction, stimulus Variation.<br>• explain challenging situations in the society. |
| Teaching OF MATHEMATICS | To appreciate the contribution of various mathematicians.<br>• to acquire knowledge of pedagogical analysis of various concepts in Mathematics.<br>• to practice the various methods and techniques of teaching mathematics.<br>• to develop an understanding of various approaches of organizing the curriculum.<br>• to develop an understanding of preparation and use of diagnostic test and Organize remedial teaching catering to the individual differences.<br>• to develop the skill of conducting recreational activities of mathematics.<br>• to know the importance of teaching mathematics in relation to other subjects<br>• to formulate the general instructional objectives and specific learning outcomes |

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| | • to acquire competence in teaching mathematics and structuring lesson plans |
| TEACHING OF ENGLISH | Describe the nature and characteristics of language.<br>• explain and evaluate basic language skills such as listening, speaking, reading and writing<br>And integrate them for communicative purposes.<br>• explain the important methodologies and techniques of teaching english.<br>• prepare and use appropriate audio visual teaching aids for effective teaching of english |
| TEACHING OF PUNJABI | Ftfdnkoeh nfxnkgek b{z gkôk, gzikph gkôk ns/ r[ow[yh fbzgh pko/ w[zybk frnkb d/dk.<br>2a wks gkôk d/ f;zfynk d/ t[d/ôk ns/ f;xksk dh ;'mh eokt[dk.<br>3a gkôk j[bok ns/ fefonktk dh ;[uzih tos'a ns/ nfgnk; eob ftu ;jkjh j'dk. 4a ;?Ezvoh ôq/dhnk bjh fboxkfos gzikph gkm ;wzroh ftu'a wjzstg{ob b[efsnk dh u'd eob<br>Ftu ;jkfjsk eobk.<br>5a gzikph gkôk d/ nfxnkgb s/ w[bked d/ toswkb gzxo b{z t[u/ok u[zed bjh<br>;koee<br>;[mkn<br>D/dk.<br>6a ;kfjs d/ ftfgzb o{gk-ejkdh, eftsk, b/y nkfd d/ nfxnkgb yzrk pko/ ikdekoh d/dk.<br>7a pzfunk nzdo g[;sewkbk ftzu ik e/ gkôk ;zpzxh frnkb gqkgs eob dh o[uh g?Dk eobk.<br>8a gzikph ;kfjs bkb ;km t[sgzb eob bjh ftfdnkoeh nfxnkgek nzdo gq/obk g?Dk eobk. |

| **COURSE OUTCOME (Semester 8)** | **(After completion students will be able to-)** |
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| PEDAGOGY PRACTICE AND INTERNSHIP PROGRAMME | develop a comprehensive understanding of existing classroom practices.<br>• develop a critical understanding of textbook lessons of individual subjects and their suitability for learning.<br>• draw linkages between various pedagogy courses and classroom practices.<br>• critically review policy and state documents on education and seek to effect ideas into classroom practices.<br>• develop and design alternative teaching – learning materials.<br>• assess factors that contribute to a classroom culture , its creation and maintenance.<br>• explore possibilities of innovation and create space for alternative practices.<br>• design, choose , organize , and conduct individual and group activities.<br>• reflect on personal experiences of classroom management<br>• to learn to set realistic goals in terms of children's learning, classroom culture and management, curricular form and content and pedagogic practices.<br>• to develop the ability to innovate within existing frameworks by alternative practices.<br>• to purposefully use the skills of systematic observations, record keeping and for reflection on teaching-learning process. |

# RSD COLLEGE, FEROZEPUR CITY

## DEPARTMENT OF EDUCATION (B.SC.B. ED)

**2021-22**

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| **PROGRAMME OUTCOMES** | **PO1-**Students will apply their knowledge of core content and pedagogy to set goals and objectives for learning based on state and national standards and local curriculum, and design instruction that engages students in meaningful learning.<br><br>**PO2-**Students will demonstrate their understanding of cognitive, affective, and psycho motor domains, and other characteristics of their diverse learners, and create an environment of respect, rapport, collaboration and a culture for learning.<br><br>**PO3-**. Students will design and deliver meaningful learning experiences for all students by integrating their knowledge of content, pedagogy, the learner and the learning environment by engaging in the reflective instructional cycle of planning,instruction, feedback and assessment.<br><br>**PO4-**. Students will demonstrate their commitment to continuous self-improvement by engaging in collaboration, reflective practice,and research to enhance their teaching skills. |

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| **PROGRAMME SPECIFIC OUTCOMES** | **PSO1-**. Students will demonstrate leadership by participating in the implementation of the vision and mission of the institute, strategic planning/continuous improvement, curriculum initiatives,student support and management systems; and demonstrate a commitment to ethical and equitable behavior.<br><br>**PSO2-**. Students will model and apply the National Educational Technology Standards for Teachers (NETS-T) as they design, implement, and assess learning experiences by engaging students through creative and innovative endeavour.<br><br>**PSO3-**. Students will engage in culturally responsive and inclusive teaching practice to help all students regardless of their language, culture, race, geographic location, special needs, or poverty and facilitate learning through collaboration among teachers and students, developing students' competence and potential.<br><br>**PSO4-**. Students will use effective and appropriate verbal, nonverbal, written, and media communication techniques in their |

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| | teaching, professional collaboration, and interactions with students, colleagues, parents, and the community.<br>**PSO5**-Students will demonstrate a disposition of professionalism, efficiency, and integrity in their teaching and interactions with students, colleagues, parents, and the community. |

| **COURSE OUTCOME(Semester1)** | **(A**fter completion students will be able to-) |
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| **Paper code –EDUC01** EDUCATION IN EMERGING INDIAN SOCIETY | CO1-Describe development of Indian education from ancientperiod to an independent nation.<br>CO2-Describe the recommendations of various commissionssince independence.<br>CO3- State various provisions of education in Indian constitution. CO4-Explain in detail the role of education insocial and cultural change.<br>CO5- Explain the relationship of education with economicissues such as poverty, inequality & unemployment |
| **Paper code –EDUC02** SCHOOL ORGANIZATIO N ANDADMINISTRATION | CO1- Differentiate between the concepts of school administration, school organization and school management.CO2-Describe a school plant and its components.<br>identify the need, scope and purpose of educational planningin terms of national and community needs.<br>CO3- Acquire knowledge of duties of school head andteachers<br>CO4-Understand the concept of institutional planning andprepare an institutional plan.<br>CO5- Acquire knowledge about the preparation of time table& maintenance of different school records and registers |
| **PAPER III: BSCBED-ENGC11: ENGLISH (COMPULSORY**) | CO1. Make use of competence in all the four skills i.e.Listening, Speaking, Reading and Writing.<br>CO2. Describe and use new pedagogic practices in theteaching of both language and literature.<br>CO3.Devise and promote student centric pedagogic techniques for the teaching of English.<br>CO4. Describe implications of teaching/learning languagethrough literature. |
| **PAPER IV: BSCBED-PBIC11: PUNJABI (COMPULSORY)** | ● fJ; g/go dk wzst eftsk dh g[;se dk fBeNnfXn?B eoBk j?.<br>● gzikph ;kfjs ftu ethnK dhnK ouBKtK pko/ ikDekoh d/Dk j?. |

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| | • ouBk ftu'A ftukoK B{z rqfjD eoB dh ;{Mg?dk eoBk.<br>• ftnkeoD ftu ftnkeoD dh gqhGkôk, b/y s/ ;zy/g ouBk pko/ ;{M d/Dk j?. |
| BSCBEDMAT011 MATHEMATICS | CO1 Explain the properties of real numbers.<br>CO2 Understand the general equations of pair of straight lines, circle & conic.<br>State and prove various theorems of calculus.<br>CO3 Apply D'Moivre's theorem and Gregory Series. CO4 Use the basic concept of matrices in a system ofHomogeneous equations |
| BSCBEDBOTO11 BOTANY | CO1 Aware about the diversity in various life forms of plantkingdom.<br>CO2 Understand about the most simple group of plants. CO3 Describe the algae and fungi and got familiarize withtheir structural differentiation |
| BSCBEDZOOO11 ZOOLOGY | CO1 Understand the classification upto orders.<br>CO2 Identify the ecological notes and economis importanceof animals.<br>CO3 Differentiate between prokaryotic and eukaryotic cell.CO4 Describe the structure of cell & its organelles. |
| BSCBEDCHEO11 CHEMISTRY | CO1 Explain silicones and phosphazenes as inorganicpolymers<br>CO2 Describe the theoretical basis of hardness and softnessCO3 Describe the electronic spectra of transition metal complexes<br>CO4 Explain magnetic properties of transition metalcomplexes<br><br>CO1 Explain the structure and stereochemistry of amino acidsCO2 Explain the structures of peptides and proteins<br>CO3 Explain the synthesis of various synthetic polymers CO4 Explain the synthesis of organometallics compounds<br><br>CO1 Define space lattice, unit cell and miller indices •Explain laws of crystallography<br>CO2 Explain X-ray diffraction by crystals |

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| | CO3 Explain photochemical processes and laws ofphotochemistry<br>CO4 Explain the photochemistry of carbonyl compounds andalkenes |
| BSCBEDPHYO11 PHYSICS | CO1 Explain various Laws of mechanics, Kepler's laws &Elastic collision in Lab. and C.M. systems<br>CO2 Describe Simple Harmonic Motion, various kinds ofOscillators and Qvalue<br>Understand & apply Vector Calculus, Poisson and Laplace'sequation& Stoke's theorem, CO3 Gauss's divergence<br>theorem, Coulomb's Law<br>CO4 Explain, induced dipole moment and atomic polarizability. Electric susceptibility and polarization vector. |

| **COURSE OUTCOME (Semester2)** | **(A**fter completion students will be able to-) |
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| **PAPER CODE-EDUC03** | CO1- Define the concept of education and give details of itsparameters.<br>CO2- Identify the relationship between philosophy and education.CO3- Identify the relationship between sociology and education. CO4- Describe the philosophy of the educational thinkers, prescribed in the syllabus.<br>CO5-Identify the relationship of education with socio-cultural<br>change, modernization and social mobility. |
| **PAPER CODE – EDUC04** | CO1- Describe concept of educational psychology and explain itssignificance<br>CO2- Discuss the meaning of intelligence, measurement andtheories.<br>CO3- Understand individual differences, their meaning, areas &role in individual development.<br>CO4- Understand the nature and needs of exceptional children. CO5-<br>Understand the recent trends in the education of exceptionalchildren. |
| BSCBEDMAT021 MATHEMATICS | CO1 Explain the concepts related to solid Geometry. CO2<br>Understand the concept of transformation of axes.CO3 Use<br>calculus in solving problems.<br>CO4 Explain the theory of equations. |

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| BSCBEDBOTO21<br>BOTANY<br>Plant Diversity-II & Genetics | CO1 Describe about the diversity in various lifeforms of plant kingdom. Explain about how different life forms have evolved from simpler to complex ones.<br>CO2 Acquire knowledge about broad prospective of evolutionarytrends in plant kingdom.<br>CO3 Highlight various aspects of hereditary trends observed insuccessive generations.<br>CO4 Explain the genetic basis of evolutionary trends in plants.CO5 Recognize important role that genetics plays in structural and functional differentiation of plants. |
| BSCBEDZOOO21<br>ZOOLOGY<br>BIODIVERSITY & ECOLOGY | CO1BUnderstand the classification up to orders.<br>CO2 Identify the ecological notes and economic importance ofanimals.<br>CO3 Differentiate between renewable and non-renewable naturalresources<br>CO4 Describe ecosystem and its components.<br>CO5 Explain inter and intra ecological relationships. |
| BSCBEDCHEO21<br>CHEMISTRY | CO1 Explain the concept close packing, various ionic structures,radius ratio rule and coordination number<br>CO2 Explain semi-conductors and explain chemical behaviour ofionic solids compare (including diagonal relationship) group 13- 14 elements and 15-17 elements<br>CO3 Explain compounds like hydrides, oxides, oxyacids andhalides of groups 13-14 and 15-17<br>CO4 Explain hydrides of boron-diborane and higher boranes,fullerenes, carbides and fluorocarbons<br><br>CO1 Explain methods of formation of alkanes and their physicaland chemical properties<br>CO2 Describe mechanism of free radical halogenations of alkanesMethods of formation of cycloalaknes and their chemical reactions<br>CO3 Describe methods of formation of alkenes Explain chemical reactions of alkenes and discuss theirmechanisms<br><br>CO1 Explain various thermodynamic terms CO2 Describe the first law of thermodynamics<br>CO3 Explain the concept of standard state, standard enthalpy of formation, enthalpy of neutralization |

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| | CO4 Calculate bond-dissociation energy |
| BSCBEDPHYO21<br>PHYSICS | CO1 Describe Rigid Body motion, Centrifugal and Coriolisforces, MichelsonMorley experiment<br>CO2 Explain special theory of relativity, Lorentz transformations, Relativistic Doppler effect, & concepts ofMinkowski space, four vector formulation<br>CO3 Understand various Types of waves, Physical interpretationof Maxwell's equations, Reflection and transmission of EM waves Explain Current& Ohm's Law, Electric susceptibility andpolarization vector. |

| **COURSE OUTCOME (Semester3)** | **(A**fter completion students will be able to-) |
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| **PAPER I: BSCBED-EDUC05: HUMAN DEVELOPMENT** | ● Describe the concept of human development and its significance for Education.<br>● Discuss the principles of human growth and development.<br>● Describe the role of education in development and growth.<br>● Enumerate different stages of growth and development in thelife span of human being. Describe characteristics features ofeach stage.<br>● Explain various theories of human development. |
| **PAPER II: BSCBED-EDUC06: SCHOOL COMMUNITY PARTICIPATION** | ● Describe the concept of universalisation of elementary education and its significance.<br>● Discuss concept of sarv shiksha abiyan and its implementation.<br>● Define the meaning and concept of life long education.<br>● Describe concept and implementation of vocationalization ofeducation.<br>● Understand the role of NCERT, SCERT, SIE, DIET, villageeducation<br>● Committees, NGO's and parent-teacher associations. |
| **PAPER III: BSCBED-ENGC32: ENGLISH (COMPULSORY)** | ● Make use of competence in all the four skills i.e. Listening,Speaking , Reading and Writing.<br>● Describe and use new pedagogic practices in the teaching ofboth language and literature.<br>● Devise and promote student centric pedagogic techniques for the teaching of English. |

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| | • Describe implications of teaching/learning language throughliterature. |
| **PAPER- IV: BSCBED-PBIC32: PUNJABI (COMPULSORY)** | • fJ; g/go dk wzst ftfdnkoEhnK B{z fBpzXs'A ikD{ eotkT [Dk j?.<br>• fBpzX dk pj[-gyh nfXn?B eoB dh ;{M g?dkeoBk j?.<br>• fBpzXekoK dh ;kfjse y/so ftu G{fwek B{zfBôfus eoBk j?.<br>• fuZmh gZso okjhA ftukoK d/ soshp pZXgqrNkU B{z T [GkoBk j?.<br>• gzikph Gkôk pko/ ikDekoh gqdkB eodk j?. |
| **MATHEMATICS BSCBED-MAT O32** | • State definitions of various mathematical terms required in thecourse.<br>• Derive the tests and theorems prescribed in the statement ofthe syllabus.<br>• Explain limits and continuity of functions of two and threevariables.<br>• State and prove various theorems related to advancedcalculus.<br>• Solve problems related with various classes of differential equations.<br>• Solve problems related with transformations and its details, prescribed in the syllabus. |
| **BOTANY BSCBED-BOTO32 PAPER: DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS- I STRUCTURE, DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS-I** | • Aware about the diversity in various life forms of plant kingdom.<br>• Understand about the group of plants with naked seeds.<br>• Describe the gymnosperms and got familiarize with theirstructural Differentiation<br>• Insight in to the structure reproduction of gymnosperms.<br>• Desribe the basic body plan of flowering plant.<br>• Insight into modification of different parts of plants. |
| **Zoology BSCBED-ZOO O32** | • Aware about the organic evolution and origin of life.<br>• Understand about the biodiversity . |

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| **BIODIVERSITY (CHORDATES) & EVOLUTION-I BIOCHEMISTRY AND ANIMAL PHYSIOLOGY-I** | ● Identify ecological notes and economic importance ofanimals.<br>● Insight in to the biochemistry and its importance. |
| **CHEMISTRY BSCBED-CHEO32 Paper A : Inorganic Chemistry**<br><br>**Paper B: ORGANIC CHEMISTRY-A**<br><br>**Paper C: PHYSICAL CHEMISTRY-A** | ● Explain the properties of elements of first transition series andtheir<br>● Simple compounds and complexes<br>● Describe characteristics of elements of second and thirdtransition<br>● Series<br>● Explain werner's co-ordination theory and its experimental verification<br>● Explain valence bond theory of transition metal complexesand<br>● Properties of coordination compounds<br><br>● Explain various methods of formation of alkyl halides andtheir chemical reactions<br>● Describe various methods of formation of aryl halides,nuclear and side chain reactions<br>● Describe the preparation of monohydric, dihydric andtrihydric alcohols and their chemical behavior<br>● Explain preparation of phenols and their physical andchemical<br>● properties<br>● Explain structure of carbonyl group<br><br>● Explain structure of liquids qualitatively<br>● Identify structural differences between solids, liquids andgases<br>● Classify liquid crystals and explain structure of nematic andcholestric phases<br>● Explain concept of equilibrium constant and free energy<br>● Derive thermodynamic law of mass of mass action |

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| **COURSE OUTCOME (Semester4)** | **(A**fter completion students will be able to-) |

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| **PAPER- I: BSCBED-EDUC07: CURRICULUM DEVELOPMENT AND EVALUATION** | ● Describe the nature and characteristics of curriculum.<br>● Explain the various foundations & components of curriculum.<br>● Differentiate among goals, aims & objectives.<br>● Differentiate among general objectives, course objectives andlesson objectives.<br>● State levels of course content.<br>● Discuss the need & guiding principles of curriculum development |
| **PAPER-II: BSCBED-EDUC08: GUIDANCE AND COUNSELLING** | ● Explain the nature and scope of guidance and counselling.<br>● Discuss the need and principles of guidance and counseling.<br>● Understand different types of guidance.<br>● Explain different types of tools and techniques, their needsand Importance.<br>● Describe various guidance and counselling services availablein Schools. |
| **PAPER III: BSCBED-ENGC42:** | ● Describe and use new pedagogic practices in the teaching of both language and literature. |

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| **ENGLISH (COMPULSORY)** | ● Devise and promote student centric pedagogic techniques forthe teaching of English.<br>● Describe implications of teaching/learning language throughliterature |
| **PAPER IV: BSCBED-PBIC42: PUNJABI (COMPULSORY)** | ● fJ; g/go dk wzst ftfdnkoEhnK ftu fJeKrh ;zpXh fBeN nfXn?B dh o[uh g?dkeoBk j?.<br>● fJeKrhekoK d/ :'rdkB pko/ ikDekoh d/Dkj?.<br>● ftnkeoD ftu gzikph dhnK ôpd ;q/DhnK pko/ ikDekoh d/Dk j?.<br>● ftnkeoD ftu gzikph dhnK T [gGkôktK dhgfjukD eotkT [Dk j?. |
| **MATHEMATICS BSCBED-MAT O42** | ● State definitions of various mathematical terms required in thecourse.<br>● Derive theorems related to differentiation and integration of transforms.<br>● Solve partial differential equations.<br>● Explain velocities and accelerations in its varietes as prescribed in the Courses.<br>● Derive motions on different places and different media. |
| **BOTANY BSCBED-BOT O42 PAPER: DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS-II STRUCTURE, DEVELOPMENT AND REPRODUCTIONIN FLOWERING PLANTS-II** | ● Aware about the diversity in various life forms of plant kingdom.<br>● Understand about the highly advanced and evolved group ofplants i.e Angiosperms.<br>● Describe the angiosperms and got familiarize with theirstructural<br>Differentiation Insight in to the reproduction of angiosperms.<br>● Describe into the process of pollination and seed formationamong plants. . |
| **ZOOLOGY BSCBED-ZOO O42PAPER : BIODIVERSITY** | ● Aware about the organic evolution and origin of life. 170<br>● Understand about the biodiversity .<br>● Identify ecological notes and economic importance ofanimals.<br>● Insight in to the biochemistry and its importance. |

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| **(CHORDATES) & EVOLUTION- II BIOCHEMISTRY AND ANIMAL PHYSIOLOGY-II** | ● Describe the fossils and evolutionary rates. |
| **CHEMISTRY BSCBED-CHM O42 Paper A: INORGANIC CHEMISTRY-B** | ● Explain the chemical behavior of lanthanide compounds<br>● Explain the features of actinides<br>● Discuss the similarities between the later actinides and thelater lanthanides<br>● Discuss the concepts of acids and bases |
| **Paper-B: Organic Chemistry- B** | ● Explain the preparation, physical properties of carboxylicacids<br>● Describe chemical reactions of carboxylic acids and their mechanism<br>● Describe the preparation of carboxylic acid derivatives<br>● Discuss preparation of ethers and their physical and chemicalproperties<br>● Describe synthesis of epoxides and their chemical behavior<br>● Describe the synthesis of oils and detergents |
| **Paper-C: PHYSICAL CHEMISTRY-B** | ● Explain the concept of phase, component and degree offreedom<br>● Describe phase equilibria of one component system and two component system<br>● Explain solid solutions and partially miscible liquids |

| COURSE OUTCOME (Semester5) | (After completion students will be able to-) |
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| **TECHNOLOGICAL BASES OF EDUCATION AND PEDAGOGY BABEDEDUC09** | □ Define educational technology and discuss its historical development.<br>□ Explain the concept, nature, phases, operations and levels of teaching.<br>□ Discuss concept of teacher behaviour and use techniques of modifyingteaching behavior.<br>□ Explain the concept of evaluation and its characteristics.<br>□ Describe the concept of teaching models and basic structure of teachingmodels.<br>□ Identify the components of GLASERS , AUSUBEL , TABA and BRUNERmodels of teaching. |
| **HEALTH AND YOGA EDUCATION BABED EDUC10** | ● To enable the student teachers to develop an understanding of the importance,meaning,<br>● Concept, aims and objectives of health education.<br>● To enlighten the student teachers about infectious diseases and their control.<br>● To aware the students teachers about balanced diet.<br>● To impart knowledge to use good postures for various purposes and first aid.<br>● To enable the pupil – teachers to know the historical and philosophicalbackground of yoga. |
| **BABED ENGC53 ENGLISH** | □ Make use of competence in all the four skills i.e. Listening, Speaking, Readingand Writing.<br>□ Describe the structure of poem, play and prose.<br>□ Describe and use new pedagogic practices in the teaching of both languageand literature |
| **BABED-PBIC53 PUNJABI** | □ fJ; g/go dk T[d/ô ftfdnkoEhnK B{z wZXekbhB gzikph ekftXkok s'A ikD{ eotkT[Dk j?. ftukoK d/ soshppZX gqrNkt/ B{ z T[GkoBk j?.gzikph Gkôk ;zpzXh ft;Ekog{ote ;wM g?dk eoBkj?.ftnkeoD ftZu tkeK d/ G/dK pko/ ikro{eeotkT[Dk j?. |
| **MATHEMATICS BSCBED-MATO53** | □ Explain the properties of integrable functions.<br>□ Understand the convergence of improper integrals.<br>□ Apply the concept of Probability.<br>□ Use the various types of random variables |
| **BOTANY (PLANT PHYSIOLOGY- I & PLANT ECOLOGY) BSCBED-BOTO53** | ● Describe the various concepts of functions and metabolism of plants.<br>● Correlate structural diversity of various plant forms with functionalDifferentiation.<br>● Insight into biological aspects including biological nitrogen fixation andmineral nutrition. |

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| | ● aware about the role of environment in causing structural and functionalvariation in plants.<br>● Describe the basic concepts of ecology. |
| **ZOOLOGY BSCBED-ZOOO53** | ● Describe the gametogenesis and egg maturation.<br>● Insight into fertilization, and parthenogenesis.<br>● Describe the basic concepts of applied zoology. |
| **CHEMISTRY BSCBED-CHEO53** | ● Explain metal-ligand bonding in transition metal complexes<br>● Explain thermodynamic and kinetic stability of metal complexes<br>● Define and classify organometallic compounds<br>● Explain preparation of organometallic compounds, their properties andbonding<br>● Explain essential and trace elements in biological processes |

| **COURSE OUTCOME (Semester6)** | **(A**fter completion students will be able to-) |
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| **BABED-EDUC11 EDUCATIONAL RESEARCH & STATISTICS** | ▯ Explain the concept of educational research<br>▯ Differentiate between methods of educational research.<br>▯ Formulate hypotheses of research.<br>▯ Explain the applications of statistical techniques in education.<br>▯ Develop the skills to carry out research. |
| **BABED-EDUC12 VALUE EDUCATION** | ● Explain various intervention strategies for value inculcation in education.<br>● Describe tools of value inculcation<br>● Explain various bases of value education |
| **BABED-ENGC63 ENGLISH** | • Make use of competence in all the four skills i.e Listening, Speaking, Reading andWriting<br>• Describe and use new pedagogic practices in the teaching of both language andliterature.<br>• Devise and promote student centric pedagogic techniques for the teaching ofEnglish. |
| **BABED-PBIC63 PUNJABI** | ● fJ; g/go dk T[d/ô ftfdnkoEhnK Bz{ gzikph Bktb pko/ft;fsqs ikDekoh d/Dk j?.<br>● Bktb ftub/ GktK B{z rqfjD eoB d/ :'r pDkT[Dk j?.<br>● r[ow[yh fbgh d/ fJfsjk; s'A ikD{ eotkT[Dk j?.<br>● ftnkeoD ftu tke pDso pko/ ikDekoh d/Dk j?. |
| **MATHEMATICS BSCBED-MATO63** | ● Explain the double and triple integrals.<br>● Understand the sequences and series of functions.<br>● Apply the concept of Vector Space.<br>● Use the numerical analysis in solving problems of mathematics. |
| **BOTANY BSCBED-BOTO63** | ● Describe the growth and metabolic processes of the plants. |

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| | ● Insight into plant development, differentiation and their regulatorymechanism.<br>● Describe the basic concepts in tissue culture.<br>● Insight into plant wealth and economic importance of plants. |
| **ZOOLOGY BSCBED-ZOOO63** | ● Describe the gene interactions, gene modifications and linkage.<br>● Insight into mutations, population genetics and applied genetics.<br>● Describe the basic concepts of applied zoology. |
| **CHEMISTRY PAPER IV: BSCBED-CHEO63** | ● Explain silicones and phosphazenes as inorganic polymers<br>● Describe the theoretical basis of hardness and softness<br>● Describe the electronic spectra of transition metal complexes<br>● Explain magnetic properties of transition metal complexes |
| **PHYSICS BSCBED-PHYC63** | ● Explain Lattice Dynamics, Magnetic classification of materials, Weiss's theoryof Ferromagnetism and Liquid crystals.<br>● Describe Superconductivity and basic ideas of materials at nanoscale.<br>● Understand & apply Structure and working of JEFT, Feed back in amplifiers,Theory of sinusoidal oscillations, Wein bridge oscillator.<br>● Explain, Operational amplifier (black box approach), Analog and digital circuits, De Morgan's theorem, Analog and digital communication systems,Sky-wave communication, and mobile communication.<br>● Describe Interaction of nuclear radiation with matter, Gamma-ray interactionwith matter, photoelectric effect, Compton scattering, Detectors for nuclear radiation<br>● Understand Particle Physics, Origin and composition of Cosmic rays, Particleaccelerators,and Accelerator facilities available in India. |

| **COURSE OUTCOME (Semester 7)** | **(A**fter completion students will be able to-) |
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| PHILOSOPHICAL, SOCIOLOGICAL AND POLITICAL PERSPECTIVE | Explain the discipline of education in philosophical, sociological and political perspective<br>• discuss the contribution of eminent thinkers to education<br>• be aware of current acts in education<br>• discuss the role and functions of unesco & unicef |
| THE LEARNER NATUREAND DEVELOPMENT | Explain the various dimensions of personality of an individual<br>• describe the role of education in nurturing the creativity<br>• describe the concept of motivation<br>• explain the importance of mental health and ways and means to improve the mental Health<br>• explain the concept & factors of learning |
| THEORY OF INSTRUCTION AL TECHNOLOGY | Explain the principles of instructional design and apply them to develop design of Instruction<br>• describe different media and their applications<br>• explain the concept, process and application of team teaching, group interaction ,<br>• discuss the need, concept and principles of self instruction programme |
| SCHOOL MANAGEMENT | Explain the various elements of school management |

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| | • explain the organization of various co-curricular activities<br>• enumerate the factors affecting classroom management<br>• explain the role and importance of various government agencies<br>• explain the significance & applications of tqm in education |
| INFORMATION & COMMUNICATION TECHNOLOGY (ICT) INEDUCATION | Explain different parts of computer and their functions.<br>• explain various computer applications.<br>• run different software on computer.<br>• describe internet and its uses.<br>• able to use computer for enhancing teacher learning process |
| TEACHING OF SCIENCE | Understand the nature of science and appreciate science as dynamic and expanding body of knowledge.<br>- Identify and formulate aims and objectives of science teaching.<br>- Understand and use various methods and approaches of teaching science and develop scientific attitude among the students.<br>- Select and use appropriate learning resources in science. Understand the current trends in teaching of science. |
| Teaching OF MATHEMATICS | To appreciate the contribution of various mathematicians.<br>• to acquire knowledge of pedagogical analysis of various concepts in Mathematics.<br>• to practice the various methods and techniques of teaching mathematics.<br>• to develop an understanding of various approaches of organizing the curriculum.<br>• to develop an understanding of preparation and use of diagnostic test and Organize remedial teaching catering to the individual differences.<br>• to develop the skill of conducting recreational activities of mathematics.<br>• to know the importance of teaching mathematics in relation to other subjects<br>• to formulate the general instructional objectives and specific learning outcomes<br>• to acquire competence in teaching mathematics and structuring lesson plans |
| TEACHING OF ENGLISH | Describe the nature and characteristics of language.<br>• explain and evaluate basic language skills such as listening, speaking, reading and writing<br>And integrate them for communicative purposes.<br>• explain the important methodologies and techniques of teaching english.<br>• prepare and use appropriate audio visual teaching aids for effective teaching of english |

| **COURSE OUTCOME (Semester 8)** | **(A**fter completion students will be able to-) |
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| PEDAGOGY PRACTICE AND INTERNSHIP PROGRAMME | develop a comprehensive understanding of existing classroom practices.<br>• develop a critical understanding of textbook lessons of individual subjects andtheir suitability for learning.<br>• draw linkages between various pedagogy courses and classroom practices.<br>• critically review policy and state documents on education and seek to effectideas into classroom practices.<br>• develop and design alternative teaching – learning materials. |

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| | • assess factors that contribute to a classroom culture , its creation andmaintenance.<br>• explore possibilities of innovation and create space for alternative practices.<br>• design, choose , organize , and conduct individual and group activities.<br>• reflect on personal experiences of classroom management<br>• to learn to set realistic goals in terms of children's learning, classroom cultureand management, curricular form and content and pedagogic practices.<br>• to develop the ability to innovate within existing frameworks by alternativepractices.<br>• to purposefully use the skills of systematic observations, record keeping and forreflection on teaching-learning process. |

## DEPARTMENT OF B. Voc MLMDT

### Course Outcomes of B. Voc MLMDT

| Course | Outcomes<br>After completion of these courses, students should be able to learn; |
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| **SEMESTER-I** | |
| **GEN 101 – Communication Skills** | In this course students learn about English communication skills which includes<br>developing confidence, smartness and outward skills. |
| **GEN 102 – Fundamentals of Information Technology** | In this course students will understand basic IT topics that are important to computerscience such as computer parts, internet, basic software and applications. |
| **MLMDT 103 – Basicsof Human Anatomy** | Student will understand the basics of human anatomy. Will learn about the basic unitof life- cell and various tissues.<br>Study different organs of the body - digestive, respiratory, reproductive and excretory organs. |
| **MLMDT 104 – Introduction to Laboratory Equipments** | Will learn about the different instruments of biochemistry and microbiology labs likecentrifuge, spectrophotometer, microscopes, hot air oven, autoclave etc.Different<br>methods of sterilization of glassware, and will be made aware about laboratorysafety rules. |
| **MLMDT 105 – Introduction toHaematology** | Will learn how to collect blood samples and learn about hematology and its variouslab equipments. |
| **SEMESTER-II** | |
| **GEN 201 – Soft Skillsand Personality Development** | Will learn about soft skills such as pleasant behave, self-confidence, positive attitude, emotional intelligence, social grace, effective communication skills and<br>work ethics. |
| **GEN 202 – Introduction to MedicalTechnology Healthcare Systems** | Students will get know about the healthcare and laboratory systems.<br>Importance ofmaintaining a safe patient's environment and personal hygiene. |
| **MLMDT 203 – GeneralPathology** | Will get to know about general diseases and their causes as a part of generalpathology. |
| **MLMDT 204 – Basicsof Biochemistry** | Will learn about preparation of biochemical solutions and introduction and metabolism of fats, proteins, lipids and nucleic acids. |
| **MLMDT 205 – Analytical Laboratory Testing Process** | Will perform different analytical tests involved in analysis of the patient - urine andblood analysis for detection of disease |
| **SIT 201 – Summer Industrial Training** | In this one-monthtraining programme, Students will train in medical laboratories of<br>different Hospitals to improve handling in practical. |