



# COURSE OUTCOMES OF UG/PG PROGRAMS

Session 2019-20

**Criterion II**

**2.6.1**

**Course Outcomes of Computer Science (Part of  
B.Sc. Program)**

**SEMESTER - 1**

<b>Paper-1</b>	<b>C Programming</b>
<b>CO1</b>	Able to understand and develop well-structured programs using C language.
<b>CO2</b>	Able to understand the concept of problem solving and expression of solution through flow chart and algorithm.
<b>CO3</b>	Able to use the concept of different memory allocation methods.
<b>CO4</b>	Can Classify the various parts of program -data types , variables ,operators , conditional & looping statements ,functions , Pointers , Arrays, File handling.
<b>Paper-2</b>	<b>Computer Fundamentals</b>
<b>CO1</b>	Understand the meaning and basic components of computer system.
<b>CO2</b>	Can distinguish hardware and software components of computer systems.
<b>CO3</b>	Can describe various generations of computer systems.
<b>CO4</b>	Able to identify the various input and output units and their purpose.

**SEMESTER - 2**

<b>Paper-1</b>	<b>Programming in C++</b>
<b>CO1</b>	Able to understand the concept of Object oriented design & program implementation.

<b>CO2</b>	Able to use the concept of constructor and destructor , operator overloading.
<b>CO3</b>	Able to apply the knowledge of Inheritance and its types.
<b>CO4</b>	Able to describe the type of Exception handling methods.
<b>Paper-2</b>	<b>System Analysis and Design</b>
<b>CO1</b>	Able to describe the organizational and business context of systems development.
<b>CO2</b>	Learn to explain and apply system development methodologies, model, tools and techniques for developing quality software.
<b>CO3</b>	Learn to describe , organize and structure the components of system ,including decisions about the system's hardware, software and network environment.
<b>CO4</b>	Learn about implementation, software testing, and deployment issues.
<b>SEMESTER - 3</b>	
<b>Paper-1</b>	<b>Data Structures</b>
<b>CO1</b>	Analyze algorithms correctness
<b>CO2</b>	Use searching and sorting techniques
<b>CO3</b>	Describe the concept of stack, queue and linked lists operations
<b>CO4</b>	Apply the knowledge of tree and graphs concepts

<b>Paper-2</b>	<b>Operating System</b>
<b>CO1</b>	Understand the concept of Operating System.
<b>CO2</b>	Perform the analysis of performance comparison and understand the concept of deadlock and determine the solution of it.
<b>CO3</b>	Describe the various memory management techniques.
<b>CO4</b>	Classify various file allocation methods and able to use the concept of protection mechanism.
<b>SEMESTER - 4</b>	
<b>Paper-1</b>	<b>Programming in Java</b>
<b>CO1</b>	Understand the concept of Java programming.
<b>CO2</b>	Apply the knowledge of programming constructs.
<b>CO3</b>	Discuss the various packages , applets , threads and exception handling.
<b>CO4</b>	Perform the analysis of event driven java programming with graphics and controls using AWT tool kit.
<b>Paper-2</b>	<b>Linux Operating Systems</b>
<b>CO1</b>	Understand the concept of Linux Operating System its file structure and shell.
<b>CO2</b>	Discuss the various basic commands.

<b>CO3</b>	Understand the working of vi editor.
<b>CO4</b>	Manage user accounts, changing password and access to the files.
<b>SEMESTER - 5</b>	
<b>Paper-1</b>	<b>VB Programming</b>
<b>CO1</b>	Understand the working and basic of VB programming language.
<b>CO2</b>	Understand the concept of learn concept of arrays, procedures, functions and modules.
<b>CO3</b>	Apply the knowledge of designing menus and database using built in tools.
<b>CO4</b>	Explain the types of Database handling and Error handling.
<b>Paper-2</b>	<b>Database Management Systems</b>
<b>CO1</b>	Understand the concept of basic of DBMS.
<b>CO2</b>	Perform the analysis of working with ER models.
<b>CO3</b>	Understand the working of relational model.
<b>CO4</b>	Describe the type of functional dependency and normalization
<b>SEMESTER - 6</b>	
<b>Paper-1</b>	<b>Compiler Constructions</b>

<b>CO1</b>	Understand the working principle of Compiler design.
<b>CO2</b>	Understand the working of Top - down & Bottom - up parsing techniques.
<b>CO3</b>	Able to apply the knowledge of algorithms and implementation techniques for type-checking , code-generation and optimization.
<b>CO4</b>	Classify the various internal form of source program-semantic analysis , symbol tables , error detection and recovery and directed acyclic graph.
<b>Paper-2</b>	<b>SQL /PL/SQL</b>
<b>CO1</b>	Understand the working principles of Codd rules, DDL,DML,TCL.
<b>CO2</b>	Use the concept of views and programming constructs.
<b>CO3</b>	Explain the types of Exception handling and procedures cursors
<b>CO4</b>	Discuss the various functions and triggers

<b>Course outcome (B. Sc. Chemistry)</b>	
<b>Semester – I</b>	
<b>Ch-101:</b>	<b>Paper – I (Inorganic Chemistry)</b>
<b>CO1:</b>	To enable students to know and understand about the basic concept regarding structure of atoms, ions subatomic particles and properties of different elements with reference to ionization energy, metallic and non-metallic characteristics of different elements present in modern periodic table.
<b>CO2:</b>	To enable students to understand chemical bonding concept and predict molecular geometry.
<b>CO3:</b>	To make students to understand the concept of S-Block elements and noble gases.
<b>CO4:</b>	To enable students to know about various concept regarding P-Block elements and Food Adulteration their detection
<b>Ch-102: Paper – II (Physical Chemistry)</b>	
<b>CO 1:</b>	To enable students to know about Thermodynamics and Thermochemistry.
<b>CO2:</b>	To enable students to know about the basic concept regarding Gaseous State
<b>CO3:</b>	To enable students to know about liquid crystals, properties of liquids, their determination and applications.
<b>CO4:</b>	To make students to understand the properties of Colloidal State and Surface Chemistry.
<b>Ch-103: Laboratory Course.</b>	

<b>CO 1:</b>	(i) To enable students to know essential facts, concepts and principles in the analysis of radicals. (ii) To enable students to gain the knowledge regarding the identification and separation of various adulterant present in food items.
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<b>CO2:</b>	To enable students to gain skill in monitoring by observation and measurements of chemical and physical properties.
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**Semester – II**

**Ch-201: Paper – I (Inorganic Chemistry)**

<b>CO 1:</b>	To enable students to know about hybridization and reactivity along with mechanisms for organic reaction.
<b>CO2:</b>	To make students to understand about the orientation and reactivity of organic reactions.
<b>CO3:</b>	To enable students to know the methods of preparations of compounds and their applications in different fields of science and medicine.
<b>CO4:</b>	To enable students to gain knowledge of unsaturated hydrocarbons and reactivity to explain addition and substitution reactions.

**Ch-202: Paper – II (Physical Chemistry)**

<b>CO1:</b>	To enable students to know maximum conversion of heat into work, change in free energy entropy and criteria of spontaneity.
<b>CO2:</b>	To enable students to know about phases, components and degrees of freedom of system their properties and applications.
<b>CO3:</b>	To enable students to know about the conductance, its variation with dilution and the determination of conductance with different methods.



<b>CO4:</b>	To enable students to know about the velocity of chemical reaction of different types and the theories related to it.
<b>CH-203: Laboratory Course</b>	
<b>CO1:</b>	To enable students to know the characteristics of organic compounds and their identification.
<b>CO2:</b>	To enable students to know the relationship of various thermodynamic parameters and their relationship to electrophiles and nucleophiles.
<b>B.Sc.-II . Semester-III</b>	
<b>CH-301: Paper-I (Inorganic Chemistry)</b>	
<b>CO1:</b>	To make students to gain knowledge about general information and properties of molecular orbitals and synthesis of tetra nitride and poly halides compounds.
<b>CO2:</b>	To enable students to know about general information and properties of I,II and III transition series members.
<b>CO3:</b>	To enable students to know about chemical properties of Lanthanides and Actinides elements.
<b>CO4:</b>	To enable students to know about the quantitative assessment of scientific data.
<b>CH-302: Paper- II (Organic Chemistry)</b>	
<b>CO1:</b>	To enable students to know about the structural, chemical and physical properties of different organic halides
<b>CO2:</b>	To enable students to know about the structural, synthesis, chemical and physical properties along with classification of alcohols and phenols

<b>CO3:</b>	To enable students to know about the structural, chemical and physical properties of aldehydes and ketones.
<b>CO4:</b>	To enable students to know about the structural, chemical and physical properties of carboxylic acids and its derivatives
<b>CH- 303: Laboratory Course</b>	
<b>CO1:</b>	To enable students to know about quantitative analysis by volumetric methods and able to learn the applications of types of titrations and To Study and investigate the physicochemical properties of Soil

<b>CO2:</b>	To enable students to know about the steps involved in the identification of organic compounds
<b>B.Sc. –II , Semester – IV</b>	
<b>CH – 401: Paper- I (Inorganic Chemistry)</b>	
<b>CO1:</b>	To enable students to understand about the different types of coordination compounds and its various aspects.
<b>CO2:</b>	To enable students to know about isomerism in coordination compounds and able to recognize and understand various redox reactions.
<b>CO3:</b>	To enable students to understand the basic concept regarding Colorimetry and Spectrophotometry along with various separation techniques.
<b>CO4:</b>	To enable students to know about the basic concept regarding Inorganic Polymer and Water Analysis.
<b>CH – 402: Paper- II (Physical Chemistry)</b>	
<b>CO1:</b>	To enable students to understand about basic idea regarding physico chemical identification of a crystal structure.

<b>CO2:</b>	To make students to gain knowledge of Electrochemistry through various laws and theories.
<b>CO3:</b>	To enable students to understand about the various types of spectra, rotational , vibrational and electronic energy levels
<b>CO4:</b>	To enable students to understand the concept regarding Quantum Chemistry and Dielectric and Magnetic Properties of molecules.
<b>CH-403: Laboratory Course</b>	
<b>CO1:</b>	To enable students to understand synthesis of various complexes and basic knowledge of separation of binary mixtures using chromatography technique. Also to enhance the student's knowledge regarding physicochemical analysis of water

<b>CO2:</b>	To enable students to understand various types of titrations like conductometric and potentiometric titration.
<b>B.Sc. –III, Semester – V</b>	
<b>CH- 501:Paper- I (Organic Chemistry)</b>	
<b>CO1:</b>	To enable students to understand about various types of nitrogen, its derivatives, synthesis; and their properties.
<b>CO2:</b>	To enable students to know about the synthesis and chemical properties of various heterocyclic compounds.
<b>CO3:</b>	To enable students to gain information about various quantitative analytical methods and various organometallic compounds.
<b>CO4:</b>	To enable students to understand various aspects, laws and applications of spectroscopic methods
<b>CH- 502:Paper- II ( Physical Chemistry)</b>	
<b>CO1:</b>	To enable students to understand about the various aspects of quantum chemistry, and its various theories.
<b>CO2:</b>	To understand about the various aspects of quantum chemistry, atomic orbital and its various theories along with applications.
<b>CO3:</b>	To enable students to understand about different properties and theories related solution. They will also get the knowledge about magnetic properties, its measurements.
<b>CO4:</b>	To enable students to understand about basic concept of photochemistry and Raman spectra.
<b>CH-503: Laboratory Course</b>	

**CO1:**

To enable students to understand about the estimation of various organic compounds using different methods.

<b>CO2:</b>	To enable students to understand about the various applications' of laws related to physical parameters and their verifications.
<b>B.Sc-III, Semester –VI</b>	
<b>CH-601: Paper-I (Inorganic Chemistry)</b>	
<b>CO1:</b>	To enable students to understand about interaction of metal complexes with various ligands and their electronic spectra.
<b>CO2:</b>	To enable students to understand about the magnetic, thermodynamic and kinetic parameters of metal complexes.
<b>CO3:</b>	To enable students to understand about the various application of spectroscopic and separation techniques like chromatography, ion-exchange and solvent extraction methods.
<b>CO4:</b>	To enable students to understand about the inorganic polymers their types, synthesis and properties.
<b>CH- 602: Paper- II ( Organic Chemistry)</b>	
<b>CO1:</b>	To enable students to understand about the various aspects NMR and its applications.
<b>CO2:</b>	To enable students to understand about organic synthesis and carbohydrates it's types and properties.
<b>CO3:</b>	To enable students to gain an understanding about amino acids, peptides, proteins, nucleic acids, fats, oils and detergents
<b>CO4:</b>	To enable students to gain an understanding about synthetic dyes, drugs and polymers.
<b>CH-603: Laboratory Course</b>	

<b>CO1:</b>	To enable students to gain the knowledge about synthesis of various complexes and study their properties using various methods.

**CO2:**

To enable students to understand about binary mixture separation and identification of various compounds



<b>Course Outcomes of Physics (Part of B.Sc. Program)</b>	
<b>SEMESTER - 1</b>	
<b>Paper-1</b>	
<b>CO1</b>	In this semester the student will be able to learn the basics of elastic properties of materials their applications in bridges, beams and cantilevers.
<b>CO2</b>	Properties of fluids like viscosity which effect the motion of aircraft if the medium is air, the lubrication of machineries if the medium is liquid.
<b>CO3</b>	Properties like Surface Tension which has application in daily life like soap solutions for better washing, why some liquids wet containers while other liquids do not wet.
<b>CO4</b>	Mechanics chapter will teach a student application like rocket propulsion, motion of bodies, rotation of bodies.
<b>Paper-2</b>	
<b>CO1</b>	Interaction of charges, different governing laws and basics of electric fields
<b>CO2</b>	Dielectric materials, capacitors, different theories related to the capacitances and Claussius Mossotti equation
<b>CO3</b>	Phenomenon of Electromagnetic induction, Faradays Laws, Self and Mutual induction. Transformers and its application to various aspects of daily life.
<b>CO4</b>	Electric currents especially Alternating Currents their complex form like j-operator, resonance, power factor and application of A.C circuits in daily life.
<b>SEMESTER - 2</b>	
<b>Paper-1</b>	
<b>CO1</b>	This paper enables a student to learn about oscillations, wave motion, damped oscillations.

<b>CO2</b>	Simple Oscillations in different systems and Kinetic theory of gases in detail.
<b>CO3</b>	Transport phenomena in gases and introduction to thermodynamics
<b>CO4</b>	Thermodynamics in detail and applications are dealt with clarity.
<b>Paper-2</b>	
<b>CO1</b>	Theory of Gravitation, Kepler's Laws of Planetary motion and relation between G and g.
<b>CO2</b>	Astrophysics: Big bang theory, measuring distance of planet/star from Earth, measuring diameter of a planet if distance is known. Details of Sun and temperature of Sun and Cosmological theories of Universe.
<b>CO3</b>	Magnetism: Theory of magnetism, different types of magnetic materials.
<b>CO4</b>	Magnetostatics: Forces due to magnetic materials on different materials. Theories behind them, magnetization vector, magnetic vectors.
<b>SEMESTER - 3</b>	
<b>Paper-1</b>	
<b>CO1</b>	Waves in different media, human audibility, different musical instruments, theory of human ear.
<b>CO2</b>	Applied Acoustics: Building an echoless halls, theory behind reverberation, reproduction of sound.
<b>CO3</b>	Ultrasonic waves, piezoelectric effect, magnetostriction, SONAR and deep sea investigation using ultrasonic waves.
<b>CO4</b>	Power Supplies, rectification by diodes, filters, regulated power supply.

<b>Paper-2</b>	
<b>CO1</b>	Interference of light, reflection, refraction, transmission of light through different media.
<b>CO2</b>	Diffraction of light, narrow edge, grating diffraction, theories behind the diffraction.
<b>CO3</b>	Polarization of light, theory behind polarization, studies on different crystals which exhibit polarization phenomena.
<b>CO4</b>	Electromagnetic waves, leading equations that support it, Poynting vector, Electromagnetic wave velocity.
<b>SEMESTER - 4</b>	
<b>Paper-1</b>	
<b>CO1</b>	Solid State Physics, different crystal systems, lattices, effect of different crystal structures on the properties of materials
<b>CO2</b>	X-rays, applications, Interaction of X-rays with matter, Different laws governing with X-rays.
<b>CO3</b>	Solid state physics, theory of diffraction of X-rays. Bragg's spectrometer
<b>CO4</b>	Lasers, productions, properties, applications.
<b>Paper-2</b>	
<b>CO1</b>	Solid State Electronics, LEDs, transistors, thermal runaways, biasing circuits.
<b>CO2</b>	FETs, JFETs, MOSFETs, structure, properties and applications

<b>CO3</b>	Molecular Physics: Spectra due to Diatomic molecules, vibration spectra, Rotation Spectra.
<b>CO4</b>	Raman Spectrometer, Application of Raman Spectroscopy, NMR, ESR and other applications
<b>SEMESTER - 5</b>	
<b>Paper-1</b>	
<b>CO1</b>	Atomic Physics, Zeeman spectra, singlet, doublet, quantum numbers, selection rules
<b>CO2</b>	Free electron theory, Band theory of solids, Fermi Energy, Fermi Temperature, Hall Effect
<b>CO3</b>	Statistical Physics, Maxwell Boltzmann distribution, Fermi dirac Statistics.
<b>CO4</b>	Black body radiation, Planck's law studies, Bose Einstein Condensation.
<b>Paper-2</b>	
<b>CO1</b>	Quantum Mechanics, Compton Effect, Uncertainty Equation, deBroglie Hypothesis
<b>CO2</b>	Shrodinger's equation, Eigen Value, Eigen Function, Application to Free particle in one and three dimensional potential box,
<b>CO3</b>	Nano Materials, preparation, characterization,
<b>CO4</b>	Nano Technology, BET, SEM, TEM and particle analyser, application of nano materials in various fields.
<b>SEMESTER - 6</b>	
<b>Paper-1</b>	

<b>CO1</b>	Relativity, time dilation, length contraction, Michelson Morley Expt, Mass-Energy Equivalence, Mass variation with speed of light.
<b>CO2</b>	Nuclear Physics, nuclear reactor, cosmic rays, elementary particles, nuclear fusion, Shell model
<b>CO3</b>	Alpha decay, beta decay, Gamma Radiation, Geiger Nuttal law, Magnetic spectrometer for measuring energy of Alpha particle.
<b>CO4</b>	Bio-Physics, EEG, ECG, Blood pressure measurement, Sonography, Electroretinogram for retina treatment, pH of blood
<b>Paper-2</b>	
<b>CO1</b>	Amplifiers, different classes of amplifiers, oscillators, applications of Amplifiers and Oscillators
<b>CO2</b>	Fiber Optics, fabrication, properties, application, graded index concept, losses and bandwidth
<b>CO3</b>	Communication: Powers and currents in modulations, AM, FM, modulation index, band width, merits and demerits.
<b>CO4</b>	Number Systems, decimal system, hexadecimals, octadecimals, Universal gates, OR gates, NOR gates and deMorgan Theorem

<b>Course Outcomes of B.Sc. Mathematics</b>	
<b>SEMESTER - 1</b>	
<b>Paper-1</b>	<b>M1</b>
<b>CO1</b>	Students will be able to understand the concept of rank of matrix, solution of equations using matrix.
<b>CO2</b>	Student will understand the working principle of solution of cubic and bi-Quadratic equations
<b>CO3</b>	Students will be able to understand DE Moivre's theorem and its applications.
<b>CO4</b>	Students will be able to understand the concept if group.
<b>Paper-2</b>	<b>M2</b>
<b>CO1</b>	To make students able to apply the knowledge of limit, continuity, differentiation and Leibnitz's theorem.
<b>CO2</b>	Students will understand the Maclaurian, and Taylor series expansions, the application of L' Hospitals rule.
<b>CO3</b>	To make students understand the concept of partial derivative and to and apply Euler's theorem.
<b>CO4</b>	To unable students to handle the various methods of Integration.
<b>SEMESTER - 2</b>	
<b>Paper-1</b>	<b>M3</b>
<b>CO1</b>	To make students able to know about sphere, cone, cylinder analytically.

<b>CO2</b>	To describe to the students various method of solutions of first order differential equations.
<b>CO3</b>	To enable students to determine the solution of higher order linear differential equation.
<b>CO4</b>	To explain to the students the types of difference equations.
<b>Paper-2</b>	<b>M4</b>
<b>CO1</b>	To make students able to understand Vector Differentiation.
<b>CO2</b>	To enable students to understand the evaluation and application of double Integration.
<b>CO3</b>	To make students able to understand evaluation and application of triple Integration.
<b>CO4</b>	To make students to understand the concept of improper Integrals.
<b>SEMESTER - 3</b>	
<b>Paper-1</b>	<b>M5</b>
<b>CO1</b>	To enable the students to understand the principle of Mean Value Theorem and Taylor's Theorem.
<b>CO2</b>	To enable the students to understand the concept and application of Maxima and Minima of functions of two variables.
<b>CO3</b>	To enable the students to use the knowledge of sequences.
<b>CO4</b>	To enable the students to use the knowledge of series.

<b>Paper-2</b>	<b>M6</b>
<b>CO1</b>	To enable the students to understand the types and properties of Bessel's and Legendre's Equations.
<b>CO2</b>	To enable the students to know the working principle of Laplace Transform.
<b>CO3</b>	To enable the students to determine the solution of Ordinary Differential Equations.
<b>CO4</b>	To enable the students to use the concept of Normal Sub-groups, Group Homomorphism etc.
<b>SEMESTER - 4</b>	
<b>Paper-1</b>	<b>M7</b>
<b>CO1</b>	To enable the students to understand and determine the solution of simultaneous differential equations.
<b>CO2</b>	To enable the students to understand the concept of Lagranges Equation.
<b>CO3</b>	To enable the students to determine the solution of Partial Differential Equations.
<b>CO4</b>	To enable the students to understand the concept of functional.
<b>Paper-2</b>	<b>M8</b>
<b>CO1</b>	To enable the students to apply the knowledge of equilibrium of Coplanar Forces.
<b>CO2</b>	To enable the students to discuss about Velocity and acceleration along given directions.



<b>CO3</b>	To enable the students to discuss the mechanics of particle.
<b>CO4</b>	To enable the students to discuss equivalent one body problem.
<b>SEMESTER - 5</b>	
<b>Paper-1</b>	<b>M9</b>
<b>CO1</b>	To enable the students to understand the concept of Fourier Series.
<b>CO2</b>	To enable the students to understand the concept of RieMann-Stieltjes Integral.
<b>CO3</b>	To enable the students to get the knowledge of differentiability of complex function.
<b>CO4</b>	To enable the students to explain the types of elementary function, mappings.
<b>Paper-2</b>	<b>M10</b>
<b>CO1</b>	To enable the students to understand the concept of cuntiality and metric space.
<b>CO2</b>	To enable the students to get the knowledge of compactness.
<b>CO3</b>	To enable the students to understand the concept of Ring.
<b>CO4</b>	To enable the students to get the knowledge of working of Complex Integration.
<b>SEMESTER - 6</b>	
<b>Paper-1</b>	<b>M11</b>

<b>CO1</b>	To enable the students to understand the concept of Auto-morphism.
<b>CO2</b>	To enable the students to understand the concept of Vector Spaces.
<b>CO3</b>	To enable the students to get the knowledge of linear transformations
<b>CO4</b>	To enable the students to understand the principle of matrix associated with linear map.
<b>Paper-2</b>	<b>M12</b>
<b>CO1</b>	To enable the students to get the knowledge of basic principle of Relativity.
<b>CO2</b>	To enable the students to understand the concept of Relativistic Velocity and acceleration.
<b>CO3</b>	To enable the students to get knowledge of Tensors.
<b>CO4</b>	To enable the students to understand the concept of Relativistic Mass and Energy.

## Course Outcomes of Bachelor Of Commerce (B.Com.)

### Programme Outcomes: PO

<b>PO1</b>	To build a strong foundation of knowledge in different areas of commerce.
<b>PO2</b>	To develop the skill of applying concepts & techniques used in commerce
<b>PO3</b>	To develop an attitude for working effectively and efficiently in business environment.
<b>PO4</b>	To integrate knowledge , skill and attitude that will sustain an environment of learning and creativity among the students
<b>PO5</b>	To expose students about entrepreneurship.
<b>PO6</b>	To enable a student to be capable of making decisions at personal and professional level.

### SEMESTER - 1

<b>Paper-1</b>	<b>Financial Accounting-I:</b>
<b>CO1</b>	To build a strong foundation of knowledge in different areas of accounting
<b>CO2</b>	To develop the skill of applying concepts and techniques used in accounting
<b>CO3</b>	To develop an attitude for working effectively and efficiently in business environment

<b>CO4</b>	To integrate knowledge, skill and attitude that will sustain an environment of learning and creativity among the students
<b>Paper-2</b>	<b>Business Organization:</b>
<b>CO1</b>	To expose students towards Social Responsibility of Business towards different groups.
<b>CO2</b>	To understand the concept of Company, Classification, advantage its role in economy.
<b>CO3</b>	To understand the concept of business organization
<b>CO4</b>	To know Recent Trends in Business Organization
<b>Paper-3</b>	<b>Company Law:</b>
<b>CO1</b>	To make aware the students with basic concept of company law
<b>CO2</b>	Students will be familiar with the applicability of various laws
<b>CO3</b>	To understand the working of share capital and DEMAT of securities
<b>CO4</b>	To know the overall functioning of management of a company
<b>Paper-4</b>	<b>Business Economics</b>
<b>CO1</b>	To know the Role and social responsibility of business & business Economist.

<b>CO2</b>	To understand the concept of Theory of Consumption
<b>CO3</b>	To apply the Theory of Production
<b>CO4</b>	To know the concept of Theory of Cost and Revenue
<b>SEMESTER - 2</b>	
<b>Paper-1</b>	<b>Statistics and Business Mathematics:</b>
<b>CO1</b>	To make aware the students about the different types of series
<b>CO2</b>	To aware the students about tabulation, classification of data
<b>CO3</b>	Students will be made aware about the dispersion and skewness series
<b>CO4</b>	Students will be equipped with calculation of ratios , percentages , simple and compound interest
<b>Paper-2</b>	<b>Business Management:</b>
<b>CO1</b>	To apply conceptual business foundations fundamentals
<b>CO2</b>	To understand the Traditional and Modern techniques of planning and decision making
<b>CO3</b>	To understand the concept and application of Delegation of Authority and Co-ordination & Controlling.

<b>CO4</b>	To make aware the students about the Recent trends in management.
<b>Paper-3</b>	<b>Secretarial Practice:</b>
<b>CO1</b>	To understand the procedure of company formation and role of secretary
<b>CO2</b>	To understand the role and function of secretary in an company
<b>CO3</b>	To know the working of directors and their role
<b>CO4</b>	To understand the procedure for filing and concept of e-governance
<b>Paper-4</b>	<b>Business Economics – II:</b>
<b>CO1</b>	To study the classification of markets and their structure
<b>CO2</b>	To study the Perfect & Imperfect Competition Markets.
<b>CO3</b>	To study the various Theories of Distribution
<b>CO4</b>	To understand the concept of Business Cycles & National Income.
<b>SEMESTER - 3</b>	
<b>Paper-1</b>	<b>Financial Accounting - II:</b>

<b>CO1</b>	To study the Consignment Accounts.
<b>CO2</b>	To understand the Branch Accounts (Excluding Foreign Branch)
<b>CO3</b>	To know the Flotation of Joint Stock Companies and their Capital Structure.
<b>CO4</b>	To prepare the Final Accounts of Joint Stock Companies.
<b>Paper-2</b>	<b>Business Communication &amp; Management:</b>
<b>CO1</b>	To understand the basic concept of communication
<b>CO2</b>	To know the concept of customer care communication In business
<b>CO3</b>	To study the Technology and business communication
<b>CO4</b>	To learn the MS-office aided communication
<b>Paper-3</b>	<b>Business Law:</b>
<b>CO1</b>	To make students aware about various Laws relating to Business
<b>CO2</b>	To understand the various laws related to business
<b>CO3</b>	To understand the working of laws

<b>CO4</b>	To study the laws related to IT and consumers
<b>Paper-4</b>	<b>MONETARY ECONOMICS-I:</b>
<b>CO1</b>	To know the concept of Money
<b>CO2</b>	To understand the concept of Inflation & Deflation
<b>CO3</b>	To study the Money Market & Policies
<b>CO4</b>	To know the concept of Public Finance
<b>SEMESTER - 4</b>	
<b>Paper-1</b>	<b>Financial Accounting - III:</b>
<b>CO1</b>	To prepare the Final Accounts of Banking Companies
<b>CO2</b>	To prepare the Final Accounts of General Insurance Companies
<b>CO3</b>	To understand the concept and application of Valuation of Goodwill
<b>CO4</b>	To apply the concept and steps in Liquidation of Company.
<b>Paper-2</b>	<b>Skill Development:</b>



<b>CO1</b>	To understand the concept of personality
<b>CO2</b>	To apply the communication skills and personality development
<b>CO3</b>	To study the techniques in personality development
<b>CO4</b>	To develop skills for entrepreneurship developmen
<b>Paper-3</b>	<b>Income Tax:</b>
<b>CO1</b>	To study the basic concepts of income tax
<b>CO2</b>	To prepare income from salary
<b>CO3</b>	To prepare income from house property
<b>CO4</b>	To prepare income from other sources and other deductions
<b>Paper-4</b>	<b>MONETARY ECONOMICS-II:</b>
<b>CO1</b>	To study the basic concept of commercial banking
<b>CO2</b>	To know the concept of e-banking and core banking
<b>CO3</b>	To study the banks and customers relationship and services

<b>CO4</b>	To know the role and functions of central bank
<b>B. Com. III</b>	
<b>Paper-1</b>	<b>FINANCIAL ACCOUNTING -III:</b>
<b>CO1</b>	To prepare and understand the accounts of Amalgamation and Absorption of Companies.
<b>CO2</b>	To prepare and understand the accounts of Reconstruction of Companies.
<b>CO3</b>	To prepare and understand the Accounts of Holding Companies.
<b>CO4</b>	To prepare and understand the Valuation of Goodwill and Valuation of Share
<b>CO5</b>	To prepare and understand the Fire Insurance Claims and Accounts of Public Utility Companies.
<b>Paper-2</b>	<b>INCOME TAX AND AUDITING:</b>
<b>CO1</b>	To understand the basic concept and definition of Income Tax Act
<b>CO2</b>	To acquire knowledge about Computation of Income under different heads of Income of Income Tax Act.
<b>CO3</b>	To Acquire Knowledge about the submission of Income Tax Return.
<b>CO4</b>	To Acquire Knowledge about Tax deducted at Source.

<b>C05</b>	To prepare income from other sources and other deductions
<b>Paper-3</b>	<b>FUNCTIONAL MANAGEMENT:</b>
<b>C01</b>	To study the various Human Resource Function.
<b>C02</b>	To know the basic concepts of Marketing Function
<b>C03</b>	To understand the Finance Function.
<b>C04</b>	To study the Production Function.
<b>C05</b>	To know the basic concepts of International Business Environment.
<b>Paper-4</b>	<b>INDIAN ECONOMICS:</b>
<b>C01</b>	To understand the basic concepts of Indian Economy & Planning.
<b>C02</b>	To understand the basic concepts of Indian Economy & policy
<b>C03</b>	To know the Indian Agriculture.
<b>C04</b>	To understand the Indian Industry.
<b>C05</b>	To know the India's International Trade.

<b>Paper-5</b>	<b>BUSINESS FINANCE:</b>
<b>CO1</b>	To study the basic concepts of Business Finance.
<b>CO2</b>	To study the Role and Functions of Stock Exchange and SEBI.
<b>CO3</b>	To know the basic concepts of Working Capital.
<b>CO4</b>	To know the basic concepts of Dividend Policy.
<b>CO5</b>	To know the basic concepts of Capital Budgeting.
<b>Paper-6</b>	<b>COMPUTERIZED ACCOUNTING:</b>
<b>CO1</b>	To understand the basics of Accounting.
<b>CO2</b>	To study the Accounting Software.
<b>CO3</b>	To understand the basic entries in tally.
<b>CO4</b>	To understand the Voucher Entry.
<b>CO5</b>	To understand the display in tally

<b>Course Outcomes of Bachelor Of Business Administration (BBA)</b>	
<b>SEMESTER - 1</b>	
<b>Paper-1</b>	<b>ENGLISH</b>
<b>CO1</b>	develop their intellectual, personal and professional abilities,
<b>CO2</b>	acquire the knowledge of language skills for effective communication
<b>CO3</b>	construct correct sentences by the usage of correct tense and part of speech
<b>CO3</b>	apply the knowledge of writing various business letters and business manners.
<b>Paper-2</b>	<b>FUNDAMENTALS OF BUSNISS MANAGEMENT</b>
<b>CO1</b>	Understand the basic concept of management.
<b>CO2</b>	Use the concept of management and administration at different levels of organization,
<b>CO3</b>	Explain the types of plans and objectives of planning,
<b>CO4</b>	Understand the types of organization
<b>Paper-3</b>	<b>COMPUTER APPLICATIONS FOR BUSINESS</b>
<b>CO1</b>	Understand the working of computer and various operating systems,
<b>CO2</b>	Apply the knowledge of MS-Office-WORD, EXCEL, PPT.,

<b>CO3</b>	Understand the concept of e-commerce and web-page designing,
<b>CO4</b>	Use the concept of Business Re-engineering and IT-enabled services,
<b>Paper-4</b>	<b>COST ACCOUNTING</b>
<b>CO1</b>	Understand the concept of Cost and Cost accounting
<b>CO2</b>	Understand the applicability of process costing to avoid cost wastages,
<b>CO3</b>	Apply the knowledge of operating cost for rendering the services,
<b>CO4</b>	To use the concept of managerial costing for cost control and BEP calculation
	<b>SEMESTER - 2</b>
<b>Paper-1</b>	<b>PRINCIPLES OF MARKETING MANAGEMENT</b>
<b>CO1</b>	Understand the core concept of marketing,
<b>CO2</b>	Explain various types of positioning and bases of segmentation, and information system.
<b>CO3</b>	Understand the concept of marketing mix and consumer behavior.
<b>CO4</b>	Apply the knowledge of pricing methods and promotional strategies
<b>Paper-2</b>	<b>FINANCIAL AND MANAGEMENT ACCOUNTING</b>

<b>CO1</b>	Understand the working of accounting principles,
<b>CO2</b>	Understand the working & preparation of Final a/cs of Joint Stock Company with simple entries,
<b>CO3</b>	Apply the knowledge of management accounting in decision making process,
<b>CO4</b>	Explain the various types of budgets and budgetary control.
<b>Paper-3</b>	<b>MICRO-ECONOMICS FUNDAMENTALS</b>
<b>CO1</b>	Understand the concept of Micro & Macro Economics,
<b>CO2</b>	Understand the working of demand-supply in consumer market,
<b>CO3</b>	Explain the types of cost and laws of production function,
<b>CO4</b>	Classify the various market structure and determination of their price-output relationship.
<b>Paper-4</b>	<b>ENGLISH</b>
<b>CO1</b>	Develop their intellectual, personal and professional abilities,
<b>CO2</b>	Acquire the knowledge of spotting error and rewriting sentences correctly,
<b>CO3</b>	Construct correct sentences by the usage of correct tense and part of speech(advanced)
<b>CO4</b>	Apply the knowledge of writing various business memorandums, notices etc. and business manners.

<b>SEMESTER - 3</b>	
<b>Paper-1</b>	<b>PRINCIPLES OF FINANCIAL MANAGEMENT</b>
<b>CO1</b>	Apply the knowledge of business finance,
<b>CO2</b>	Describe the types of various long term and short term sources of finance
<b>CO3</b>	Classify various costs and leverages,
<b>CO4</b>	Understand the concept of working capital and its management
<b>Paper-2</b>	<b>BASIC STATISTICAL TECHNIQUES</b>
<b>CO1</b>	Understand the basics of statistics and its role in business,
<b>CO2</b>	Understand the working principle of Mean, Median and Mode,
<b>CO3</b>	Understand various methods of measuring dispersion,
<b>CO4</b>	Use the concept of Correlation and probable errors
<b>Paper-3</b>	<b>EVOLUTION OF BUSINESS AND COMMERCIAL GEOGRAPHY</b>
<b>CO1</b>	Understand the concept of evolution of business and industrial revolution with the impact of first world war and second world war,
<b>CO2</b>	Explain the concept of business in post WWII scenario,



<b>CO3</b>	Understand the concept of commercial geography and its relation with commerce,
<b>CO4</b>	To familiarise the students with the concept of industries and the role of industries in economic- development.
<b>Paper-4</b>	<b>ENVIRONMENT MANAGEMENT</b>
<b>CO1</b>	Understand the concept of environment management and to apply the knowledge of renewable and non-renewable resources,
<b>CO2</b>	Explain the types of pollution, their causes, effects and solution,
<b>CO3</b>	Determine the solution of population explosion, causes and impact, and concept of family welfare program,
<b>CO4</b>	Apply knowledge of environmental ethics and need for gender equality.

<b>Course Outcomes of Bachelor Of Computer Application (BCA)</b>	
<b>SEMESTER - 1</b>	
<b>Paper-1</b>	<b>Computer Fundamentals</b>
<b>CO1</b>	Understand the meaning and basic components of computer system.
<b>CO2</b>	Define and distinguish hardware and software components of computer systems.
<b>CO3</b>	Gain knowledge about five generations of computer systems.
<b>CO4</b>	Identify the various input and output units and their purpose.
<b>Paper-2</b>	<b>C Programming</b>
<b>CO1</b>	Understand and develop well-structured programs using C language.
<b>CO2</b>	Understand the concept of problem solving and expression of solution through flowchart and algorithm.
<b>CO3</b>	Able to use the concept of different memory allocation methods.
<b>CO4</b>	Classify the various parts of program -data types, variables, operators, conditional & looping statements, functions, Pointers , Arrays, File handling.
<b>Paper-3</b>	<b>Statistical Methods</b>
<b>CO1</b>	Understand the concept of data collection, tabulation and classification.
<b>CO2</b>	Describe various types of averages.

<b>CO3</b>	Discuss the various methods of measuring dispersion.
<b>CO4</b>	Able to use the concept of correlation and regression.
<b>Paper-4</b>	<b>Discrete Mathematics Structure- I</b>
<b>CO1</b>	Understand the concept and working of propositional calculus with elementary formal logic.
<b>CO2</b>	Explain different types of normal forms.
<b>CO3</b>	Be familiar with constructing proofs.
<b>CO4</b>	Able to apply the knowledge of theory of inference.
<b>Paper-5</b>	<b>Operating System</b>
<b>CO1</b>	Understand the concept of Operating System.
<b>CO2</b>	Describe the various memory management techniques.
<b>CO3</b>	Perform the analysis of performance comparison and understand the concept of deadlock and determine the solution of it.
<b>CO4</b>	Discuss various methods of scheduling.
<b>Paper-6</b>	<b>Office Automation</b>
<b>CO1</b>	Understand the concept of Windows Operating System.

<b>CO2</b>	Able to use the concept and working of MS Word.
<b>CO3</b>	Able to apply the knowledge of MS Excel.
<b>CO4</b>	Able to use the concept of MS Powerpoint.
<b>SEMESTER-2</b>	
<b>Paper-1</b>	<b>Programming in C++</b>
<b>CO1</b>	Understanding of Object Oriented design & program implementation by using OO language feature.
<b>CO2</b>	Able to use the concept of constructor and destructor , operator overloading.
<b>CO3</b>	Able to apply the knowledge of Inheritance and its types.
<b>CO4</b>	Describe the type of Exception handling methods.
<b>Paper-2</b>	<b>System Analysis &amp; Design</b>
<b>CO1</b>	Learn about the organizational and business context of systems development.
<b>CO2</b>	Learn to explain and apply system development methodologies, model, tools and techniques for developing quality software.
<b>CO3</b>	Learn to describe , organize and structure the components of system ,including decisions about the system's hardware, software and network environment.
<b>CO4</b>	Learn about implementation , software testing, and deployment issues.

<b>Paper-3</b>	<b>Numerical Methods</b>
<b>CO1</b>	Determine the solution of algebraic transcendental equations using appropriate Numerical Methods.
<b>CO2</b>	Solve a differential equations using appropriate Numerical methods.
<b>CO3</b>	Solve a linear system of equations using appropriate Numerical methods.
<b>CO4</b>	Calculate a definite integral using an appropriate Numerical methods.
<b>Paper-4</b>	<b>Discrete Mathematics Structure II</b>
<b>CO1</b>	Understand the concept of set and describe the types of sets.
<b>CO2</b>	Able to explain various properties and operations on sets.
<b>CO3</b>	Be familiar with recurrence relations
<b>CO4</b>	Use the concept and apply the knowledge of graphs and trees, relations and functions
<b>Paper-5</b>	<b>Linux Operating Systems</b>
<b>CO1</b>	Understand the concept of Linux Operating System its file structure and shell.
<b>CO2</b>	Discuss the various basic commands.
<b>CO3</b>	Understand the working of vi editor.

<b>CO4</b>	Manage user accounts, changing password and access to the files.
<b>Paper-6</b>	<b>E Commerce</b>
<b>CO1</b>	Understand the concept of E commerce, E market and value chain models.
<b>CO2</b>	Use the concept of business strategies in IT age.
<b>CO3</b>	Understand the working principle of business to business Ecommerce.
<b>CO4</b>	Perform the analysis of Business to consumer E commerce.

<b>SEMESTER - IV</b>	
<b>Paper-1</b>	<b>MATHEMATICS</b>
<b>CO1</b>	Understand the concept of data collection, set operation.
<b>CO2</b>	Understand the working of logarithm and also able to understand concept of compound Interest.
<b>CO3</b>	Describe the types of Averages.
<b>CO4</b>	Able to apply to knowledge of probability theory.
<b>Paper-2</b>	<b>BUSINESS LAW</b>
<b>CO1</b>	Understand the working Principles of Indian Contract Act 1972.
<b>CO2</b>	Understand the concept of sale of goods Act 1930, & concept of condition and warranties.
<b>CO3</b>	Discuss the various types of patterns and partnership firm.
<b>CO4</b>	Understand the working principles of Negotiable Instruments Act 1881(I), 1881(II).
<b>Paper-3</b>	<b>CORE JAVA</b>
<b>CO1</b>	Understand the concept of programming language.
<b>CO2</b>	Understanding the concept of object oriented concepts.

<b>CO3</b>	Able to use the concept of writing Java Applets.
<b>CO4</b>	Able to apply the knowledge for creating own components and package.
<b>Paper-4</b>	<b>PHP &amp; MYSQL</b>
<b>CO1</b>	Understanding the concepts of basics of HTML & PHP.
<b>CO2</b>	Understanding the working of control structures, loops, arrays etc.
<b>CO3</b>	Able to apply the knowledge of creating web application.
<b>CO4</b>	Able to use the concepts of handling files and directories with concepts of database, Mysql.
<b>BCCA (PART III)</b>	
<b>Paper-1</b>	<b>BUSINESS LAW</b>
<b>CO1</b>	Understand the concept of Indian Contract Act, 1872.
<b>CO2</b>	Understand the working of Indian Joint Stock Companies using Indian Joint Stock Companies Act 1956.
<b>CO3</b>	Understand the working principle of Partnership Firms according to the Indian Partnership Act, 1932.
<b>CO4</b>	Determine the solution of Cyber Crime by applying Cyber Law.
<b>Paper-2</b>	<b>COMPUTERIZED ACCOUNTING(TALLY)</b>



<b>CO1</b>	Understand the concept of Accounting.
<b>CO2</b>	Able to use the concept of ledger and groups creation by using Tally software.
<b>CO3</b>	Describe the types of voucher entries.
<b>CO4</b>	Able to apply the knowledge for creation of financial statement for performing Tally audit.
<b>Paper-3</b>	<b>SOFTWARE PRODUCT AND PROJECT MANAGEMENT</b>
<b>CO1</b>	Understand the concepts of project management.
<b>CO2</b>	Discuss the various methods of software testing.
<b>CO3</b>	Understand the working of risk identification and risk projection.
<b>CO4</b>	Determine the solution of quality management
<b>Paper-4</b>	<b>FRONT END DEVELOPMENT</b>
<b>CO1</b>	Able to use the concepts of windows common controls.
<b>CO2</b>	Understand the working of multiple document interface.
<b>CO3</b>	Discuss the various methods of database handling.
<b>CO4</b>	Understand the working principal of Active X data object and data environment.

<b>Paper-5</b>	<b>DBMS &amp; ORACLE</b>
<b>CO1</b>	Describe the types of databases and database architecture.
<b>CO2</b>	Understand the concept of RDBMS
<b>CO3</b>	Explain the types of SQL commands.
<b>CO4</b>	Able to use the concept of programming language using SQL.

## B. A. HISTORY

### CO-PROGRAM OUTCOMES

#### HISTORY OF INDIA FROM EARLIEST TIMES TO 1525

<b>CO1:</b>	Understand the ancient civilization i.e. Harappa & Vedic and analyze the social, political and religious changes during the period. Develop the ability to understand the origin and tenets of Jainism and Buddhism.
<b>CO2:</b>	Acquire knowledge about the dynasties – Maurya and Gupta. Identify the causes and effects of Muslim invasion.
<b>CO3:</b>	To know about the Slave dynasty of India and analyze the different policies of Allauddin Khilji and Muhammad Bin Tughlaq.
<b>CO4:</b>	Acquire knowledge about Bhakti and Sufi movement.

#### HISTORY OF INDIA FROM 1526 to 1761

<b>CO1:</b>	Identify the establishment of Mughal power in India. Understand the administrative reforms of Sher Shah Suri.
<b>CO2:</b>	To know about the war of succession of Shahjahan and understand the relations of Aurangzeb with Bijapur and Golconda.
<b>CO3:</b>	To understand the expeditions of Shivaji and his relations with Deccan powers and Mughals.
<b>CO4:</b>	To analyze the Maratha war of independence and to know about Third Battle of Panipat.

#### HISTORY OF INDIA: 1764 TO 1885 A.D.

<b>CO1:</b>	Understand rise of British power in India and analyze the policy of Lord Clive.
<b>CO2:</b>	Analyze the policies of Lord Wellesley, William Bentinck and Lord Dalhousie.
<b>CO3:</b>	Classify the socio- religious movements of India.
<b>CO4:</b>	Understand the administrative reforms of Lord Lytton & Lord Ripon. Analyze the causes of Indian nationalism and origin of Indian National Congress.
<b>HISTORY OF INDIA 1886 -1947</b>	
<b>CO1:</b>	Understand the nature of moderates and extremists.
<b>CO2:</b>	Distinguish about the different freedom movements and its impacts.
<b>CO3:</b>	Grasp details about the development in the movement towards freedom in India.
<b>CO4:</b>	Evaluate the Mountbatten Plan and Indian Independence Act 1947.
<b>MODERN WORLD 18<sup>th</sup> to 20<sup>th</sup> CENTURY</b>	
<b>CO1:</b>	Evaluate the important revolutions of the world.
<b>CO2:</b>	Understand the foreign policies of Bismarck and Kaiser William II of Germany and discuss about the Eastern Question (1878 -1913).
<b>CO3:</b>	Discuss the causes of First World War and its impact on the world.

<b>CO4:</b>	Analyze the Nazism and Fascism. Discuss the causes and effects of Second World War.
<b>CO5:</b>	Critically analyze the World after the Second World War. To know about Globalization and its impact.

**DEPARTMENT OF ECONOMICS**

**COURES OUTCOMES**

**BA (PART –I)**

**Semester –I**

**Micro Economics Theory –I**

**CO1:**

To able to understand economic concept, methods, definitions, economic law & economic problem.

**CO2:**

To able to understand concept of Demand & supply & its applicability.

**CO3:**

To able to Understand Consumer behavior in terms of utility analysis, indifference curve analysis, & consumer surplus analysis.

**CO4:**

To able to understand concept of production function.

**Semester –II Examination**

**Micro Economics Theory –II**

**CO1:**

To understand concept of cost & Revenue analysis.

**CO2:**

To understand the major characteristics of different market structures and the implications for the behavior of the firm.

<b>CO3:</b>	To understand the types of market, their existence & competition.
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<b>CO4:</b>	To understand the dynamics of different factors of productions & their statistics for economics.
<b>BA (PART –II)</b>	
<b>Semester –III</b>	
<b>Macro Economics Theory- I</b>	
<b>CO1:</b>	To able to understand macro economics analysis & basic concepts of circular flow of economic activity.
<b>CO2:</b>	To able to understand of national income.
<b>CO3:</b>	To able to understand the concept of money, Quantity theory of money, concept of inflation, deflation, & monetary& fiscal policy.
<b>CO4:</b>	To understand classical & Keynesian theories of output and employment, consumption function, investment multiplier & investment function.
<b>BA (PART –II)</b>	
<b>Semester VI-</b>	
<b>Macro Economics Theory- II</b>	
<b>CO1:</b>	To understand concept of commercial banking system & process of credit creation by commercial banks.
<b>CO2:</b>	To understand the concept of Reserve bank of India its policy & Modern Banking System.



<b>CO3:</b>	To understand the concept of Indian markets like Money, Capital & Financial.
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<b>CO4:</b>	To understand the Area of Health Economics& Concept of dispersion & its applicability.
<b>BA (PART –III) Yearly Pattern</b>	
<b>Indian Economy development &amp; environmental economics</b>	
<b>CO1:</b>	To understand the structure of Indian Economics, concept of population, & planning pattern.
<b>CO2:</b>	To understand the concept of LPG & Special economic Zone.
<b>CO3:</b>	To understand role of agriculture in Indian economics, Indian agriculture sector, agriculture prices, marketing & Labour problem.
<b>CO4:</b>	To understand industrial sector in India.
<b>CO5:</b>	To understand the concept of foreign trade & new economics reforms.
<b>CO6:</b>	To understand the poverty, unemployment & trade union.
<b>CO7:</b>	To able to understand conceptualizing development.
<b>CO8:</b>	To understand theories of economic development.
<b>CO9:</b>	To understand concept of environment, climate change & causes of pollution.
<b>CO10:</b>	To understand concept of an ecosystem, environment control and Human Health.

<b>Department of Political Science</b>	
<b>(PSO) Programme Specific Outcomes</b>	
<b>PS01</b>	Students are future pillars of our country. for building a strong nation future pillars should have basic & complete knowledge of politics & political theory. Political Science caters students need in becoming a good citizen &a good politician.
<b>PS02</b>	Various branches of political science such as Political Theory ,Western Political Thoughts,Indian Government & Politics, State Government & Politics , Comparative Government & Politics, International Relation, Foreign Policy & Diplomacy imparts complete knowledge of Politics, Election Process, Working, strategy of various Political Parties ,Critical Analysis of Agenda of various Political Parties by utilizing appropriate theoretical knowledge, knowledge of National & International problems .
<b>PS03</b>	Students get knowledgeabout Legislature, Executive & Judiciary their working process & checks balance amongst each other.
<b>PSO4</b>	Political Science studentscan critically Analyse of behaviour of public representative inside & outside the house with both clarity & precision. Key phrasing relevant to the study of the subject.
<b>PSO5</b>	Political science students are able to think critically & utilize variety of theoretical knowledge& variety of Research Methodologies to understand & explain Historical & Political events &views of various Political Thinkers.
<b><u>COURSE OUTCOMES</u></b>	
<b>B.A. PART –I</b>	
<b>(SEM –I Political Theory)</b>	
<b>CO1</b>	To build a strong foundation of knowledge in different areas of accounting
<b>CO2</b>	To develop the skill of applying concepts and techniques used in accounting

<b>CO3</b>	To develop an attitude for working effectively and efficiently in business environment
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CO4	To integrate knowledge, skill and attitude that will sustain an environment of learning and creativity among the students
<b><u>Unit 1. Political Theory &amp; State</u></b>	
CO1	Students will understand the concept stated by various Thinkers & Meaning of state elements & importance of state.
<b><u>Unit 2. Power &amp; Authority</u></b>	
CO1	Students will understand the meaning of Power& Authority stated by various thinkers.
<b><u>Unit 3. Liberty &amp; Equality</u></b>	
CO1	Students will understand the importance of Liberty& Equality for developing the personality of citizen.
<b><u>Unit 4. Rights &amp; Justice</u></b>	
CO1	Students will able to know the Right & Justice protected by the Constitution of a Nation

**B.A.PART-II**

**(SEM –II : Western Political Thoughts)**

**( Plato, Aristotle, J.S. Mill & Karl Marks )**

**Unit 1.Plato:**

<b>CO1</b>	Students will be able to understand Ideal State, Philosopher King, Theory of Justice & Thoughts on Communism as explained by Greek Thinker –Plato
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**Unit 2.Aristotle:**

<b>CO1</b>	Students will be able to understand classification of state, thoughts on Revolution and Slavery as explained by Greek Thinker- Aristotle
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**Unit 3.J.S.Mill**

<b>CO1</b>	Students will be able to understand the concept of Liberty, Democracy, Property & Government as explained by Western Thinker – J.S.Mill
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**Unit 4.Karl Marks:**

<b>CO1</b>	Students will be able to get the knowledge about Dialectical Materialism, Class War, Theory Surplus Value and also about the State as cited by a Socialist thinker Karl Marks.
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**B.A. PART-II**

**(SEM- III : Indian Government & Politics)**

**UNIT-1 Indian Constitution**

<b>CO1</b>	Deep knowledge is imparted to the students regarding Historical background & features of Indian Constitution and Preamble.
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**UNIT-2 Fundamental Rights & Directive Principles of State Policy**

<b>CO1</b>	Indian citizens have got various fundamental rights. Directive Principles are the guidelines for the government.
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**UNIT 3. President, Parliament & Prime Minister**

<b>CO1</b>	Students get deep Knowledge of election process of parliament and various ministries they learn about the powers vested with the president & the Prime minister.
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**UNIT- 4 Supreme Court and Major Issues in Indian Politics:**

<b>CO1</b>	Students will understand the role of Supreme Court in protecting the constitutional Rights of the citizens in reserving the right to cancelled the unconstitutional decision taken by the Government. Indian Government comes out with various social programmes for upliftment of financial status of the citizen.
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**B.A.PART-II**

**(SEM-4 : State Government &Politics)**

**UNIT -1 Centre-State Relation and Governor**

<b>CO1</b>	Students will understand the centre state relations and the role of the Governors vis-à-vis centre state relation.
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**UNIT 2. State Legislature – Legislative Assembly & Legislative Council**

<b>CO1</b>	Students will able to understand the function and working process of state legislature
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**UNIT 3. Chief Minister & High Court**

<b>CO1</b>	Students will understand the appointment and role of the chief minister. Similarly the students will also understand the appointment and role of the chief justice and high court.
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**UNIT4. Panchayat Raj& Right to information**

<b>CO1</b>	Students will be able to understand the process of Governance in local self governing bodies under panchaytraj systems. Students will know about the importance of their valuable rights to seek information from Administrative Department.
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**B.A. III Year**

**Comparative Government & Politics**

**UNIT 1- Comparative Politics : Meaning, Nature & Scope, Importance.**

<b>CO1</b>	Significance, Growth and Method: Major Approaches- Students will understand of comparative politics and also get knowledge of different constitution.
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**UNIT 2. Historical Legacy and Political Tradition**

<b>CO1</b>	Students will be able to understand the history of Political System of different countries. They will also understand different political cultures in U.S.A., U.K. Swiss & China.
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**UNIT 3.- Legislature in U.K., U.S.A., Swiss & China**

<b>CO1</b>	Students will be able to understand Legislative System of the U.K , The U.S.A., Swiss & China. They will also understand the role of political parties and Pressure groups
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**UNIT 4.- Executive and Judiciary in U.K., U.S.A., Swiss & China**

<b>CO1</b>	Students will be able to understand the Executive and Judicial system of the countries like the U.K., the U.S.A., Swiss & China.
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**UNIT.5- Political Participation and Women's Political Participation**



<b>CO1</b>	Students will get knowledge of Political Parties get Knowledge Political Participation in general and women's political Participation in Particulars
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**DEPARTMENT OF HOME ECONOMICS**

**COURSE OUTCOMES (CO)**

**SEMESTER 1: FAMILY RESOURCE MANAGEMENT (1T1)**

<b>CO1:</b>	Understand the utility of home economics in life.
<b>CO2:</b>	Use and improve the family resources.
<b>CO3:</b>	Identify the elements and principles of art and design.
<b>CO4:</b>	Make different types of flower arrangements.

**SEMESTER 2: FAMILY RESOURCE MANAGEMENT (2T1)**

<b>CO1:</b>	Understand the importance of self-employment, housing principle etc...
<b>CO2:</b>	Realize the importance of work simplification.
<b>CO3:</b>	Describe the rights and responsibilities of consumers.
<b>CO4:</b>	Make arrangement of furniture in different rooms.

**SEMESTER 3: NUTRITION AND DIETETICS (3T1)**

**CO1:**

Understand the importance and source of macro nutrients.

<b>CO2:</b>	Realize the importance of vitamins and minerals.
<b>CO3:</b>	Describe the role of antioxidants.
<b>CO4:</b>	Make food using different methods of cooking.
<b>SEMESTER 4: NUTRITION AND DIETETICS (4T1)</b>	
<b>CO1:</b>	Understand the importance of balanced diet.
<b>CO2:</b>	Realize the importance of nutritional management in common diseases.
<b>CO3:</b>	Detect food adulteration.
<b>CO4:</b>	Avoid malnutrition.
<b>SEMESTER 5: CHILD DEVELOPMENT (5T1)</b>	
<b>CO1:</b>	Appreciate sequential ages of development during childhood.
<b>CO2:</b>	Understand the influence of heredity and environment on growth and development.
<b>CO3:</b>	Describe the development of senses during babyhood..
<b>CO4:</b>	Describe the importance of supplementary food.

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<b>SEMESTER 6: CHILD DEVELOPMENT (6T1)</b>	
<b>CO1:</b>	Understand physical, motor and emotional development during early childhood..
<b>CO2:</b>	Describe the stages of speech development.
<b>CO3:</b>	Understand the factors affecting social development.
<b>CO4:</b>	To take care of childhood developmental problems

**M. Sc. (Physics) Program Course Outcomes (CO)**

**M. Sc. (Physics) Sem-1:**

**Paper-1: Mathematical Physics:**

<b>CO-1:</b>	To enable students learn mathematical tools like integration and derivatives
<b>CO-2:</b>	To enable students for development of various laws using tools.
<b>CO-3:</b>	To enable students understand functions that provide platform for laws
<b>CO-4:</b>	To enable students use ring, counter and functions.

**Paper-2: Complex Variables and Numerical Analysis:**

<b>CO-1:</b>	To enable students understand Complex variables.
<b>CO-2:</b>	To enable students study Numerical Analysis by C-programming
<b>CO-3:</b>	To enable students learn about problem solving by numerical method.
<b>CO-4:</b>	To enable students learn applications using numerical analysis.

**Paper-3: Electronics:**

<b>CO-1:</b>	To enable students learn basics of electronics.
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<b>CO-2:</b>	To enable students small mini projects and application of electronics.
<b>CO-3:</b>	To enable students learn High speed devices, amplifiers, oscillators
<b>CO-4:</b>	To enable students understand digital electronics.
<b>Paper-4: Electrodynamics:</b>	
<b>CO-1:</b>	To enable students learn about electrostatics.
<b>CO-2:</b>	To enable students learn about EM theory.
<b>CO-3:</b>	To enable students learn about applications of EM theory.
<b>CO-4:</b>	To enable students about the electromagnetic wave propagation in complex media.
<b><u>M. Sc. (Physics) Sem-2:</u></b>	
<b>Paper-1: Quantum Mechanics-I:</b>	
<b>CO-1:</b>	Enable students learn evolution of quantum mechanics.
<b>CO-2:</b>	To enable students microscopic events using Quantum Mech. Tools.
<b>CO-3:</b>	To enable students learn about scattering theories using QM.

**CO-4:**

To enables students learn about QM tunnelling using operators.

<b>Paper-2: Statistical Physics:</b>	
<b>CO-1:</b>	To enable students will learn statistical tools for large particle systems.
<b>CO-2:</b>	To enable students know about physical phenomenon statistical treatment.
<b>CO-3:</b>	To enable students know complex problems where statistical tools are necessary.
<b>CO-4:</b>	To enable students learn about Bose Einstein Condensation and Brownian Motion can be studied.
<b>Paper-3: Classical Mechanics:</b>	
<b>CO-1:</b>	To enable students understand mechanics of particles.
<b>CO-2:</b>	To enable students understand dynamics of particles & Central forces
<b>CO-3:</b>	To enable students understand Euler's theorem and Pseudo forces,.
<b>CO-4:</b>	To enable students study Rigid Body dynamics etc.
<b>Paper-4: Electrodynamics-II:</b>	
<b>CO-1:</b>	To enable students learn propagation of light through different media.
<b>CO-2:</b>	To enable students study effect on the electric and magnetic field.

<b>CO-3:</b>	To enable students the theory of Maxwell equations.
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<b>CO-4:</b>	To enable students to study the application of Maxwell Equations.
<b><u>M. Sc. (Physics) Sem-3:</u></b>	
<b>Paper-1: Quantum Mechanics-II:</b>	
<b>CO-1:</b>	To enable students learn Perturbation Theory, Zeeman Effect.
<b>CO-2:</b>	To enable study the Classical and Quantum Treatment to above effects.
<b>CO-3:</b>	To enable students to learn about W. K. B. Method.
<b>CO-4:</b>	To enable students study Einstein's Coefficient A and B
<b>Paper-2: Solid State Physics and Spectroscopy:</b>	
<b>CO-1:</b>	To enable the students regarding the structure of solids in 2-D and 3-D <b>CO-CO-II:</b> To enable the students study Bonding, Defects and vacancies.
<b>CO-2:</b>	To enable students study the Atomic Spectra,
<b>CO-3:</b>	To enable students understand Molecular Struc. & Spectra.
<b>Paper-3: Materials Science-I :</b>	
<b>CO-1:</b>	To enable Students learn about Phase Diagrams & Transitions in Materials.

**CO-2:**

To enable students understand Diffusion in Solids & Solid State Ionics.

<b>CO-3:</b>	To enable students understand details about Energy devices & Batteries,
<b>CO-4:</b>	To enable students to learn Energy Density, Power Density of Fuel Cells.
<b>Paper-4 (Foundation Course): Nano Science and Nano Technology:</b>	
<b>CO-1:</b>	To enable students learn about nano materials introduction.
<b>CO-2:</b>	To enable students learn about nano synthesis.
<b>CO-3:</b>	To enable students understand about nano material characterization
<b>CO-4:</b>	To enable students learn about special nano materials and properties.
<b><u>M. Sc. (Physics) Sem-4:</u></b>	
<b>Paper-1: Nuclear and Particle Physics:</b>	
<b>CO-1:</b>	To enable students learn about theories of Nucleus, & Nuclear bonding.
<b>CO-2:</b>	To enable students learn from forces inside the nucleus & Nuclear Fission.
<b>CO-3:</b>	To enable study the structure and theory of Nuclear Reactors
<b>CO-4:</b>	To enable students understand Classification of Elementary particles,

<b>Paper-2: Solid State Physics:</b>	
<b>CO-1:</b>	To enable students learn about band theory band theory of solids
<b>CO-2:</b>	To enable students learn about lattice dynamics.
<b>CO-3:</b>	To enable students learn about Free Electron Theory.
<b>CO-4:</b>	To enable students learn about Semiconductors and Superconductivity
<b>Paper-3: Materials Science-II:</b>	
<b>CO-1:</b>	To enable Students learn more about Mechanical response of materials.
<b>CO-2:</b>	To enable students understand Corrosion and Degradation of materials.
<b>CO-3:</b>	To enable students learn about Synthesis of materials & processing.
<b>CO-4:</b>	To enable students understand structural characterization of materials.
<b>Paper-4 (Foundation Course): Experimental Techniques in Physics:</b>	
<b>CO-1:</b>	To enable students study the Radiation Sources and Detectors.
<b>CO-2:</b>	To enable students understand the Structural Charectrization of materials.
<b>CO-3:</b>	To enable students learn about Thermal Analysis.



**CO-4:**

To enable students learn about Morphological and Spectroscopic Analysis of Materials.

<b>Course Outcomes of M.Sc. Mathematics</b>	
<b>SEMESTER – 1</b>	
<b>Paper-1</b>	<b>ALGEBRA I</b>
<b>CO1</b>	Understand the concepts of isomorphism and automorphism of groups.
<b>CO2</b>	Describe Nilpotent group, Alternating groups etc...
<b>CO3</b>	Explain direct product and semi direct product of groups.
<b>CO4</b>	Analyze the properties of ideals and modules.
<b>Paper-2</b>	<b>REAL ANALYSIS I</b>
<b>CO1</b>	Understand the concepts of uniform convergence of a family of functions.
<b>CO2</b>	Describe contraction principle, inverse function theorem and implicit function theorem.
<b>CO3</b>	Explain topological manifolds.
<b>CO4</b>	Identify Lie groups.
<b>Paper-3</b>	<b>TOPOLOGY I</b>
<b>CO1</b>	Understand the concepts of countable and uncountable sets.
<b>CO2</b>	Describe various types of sets and their properties.

<b>CO3</b>	Explain connected and compact sets.
<b>CO4</b>	Describe axioms of countability and separability.
<b>Paper-4</b>	<b>LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS</b>
<b>CO1</b>	Determine the rank and eigen values of a matrix.
<b>CO2</b>	Understand the concept of complex vector space.
<b>CO3</b>	Determine solutions of homogeneous and non-homogeneous equations.
<b>CO4</b>	Solve higher order linear equations on function spaces.
<b>Paper-5</b>	<b>INTEGRAL EQUATIONS</b>
<b>CO1</b>	Perform conversion of an equation to an integral equation.
<b>CO2</b>	Find solutions of integral equations.
<b>CO3</b>	Identify Fourier and Laplace Integral equations.
<b>CO4</b>	Understand the concepts of integral transforms.
<b>SEMESTER – 2</b>	
<b>Paper-6</b>	<b>ALGEBRA II</b>

<b>CO1</b>	Understand the concept spolynomial rings.
<b>CO2</b>	Describe irreducible polynomials and algebraically closed fields.
<b>CO3</b>	Explain finite field and fundamental theorem of algebra.
<b>CO4</b>	Analyze cyclotomic polynomials and polynomials solvable by radicals.
<b>Paper-7</b>	<b>REAL ANALYSIS II</b>
<b>CO1</b>	Understand the concept of measure.
<b>CO2</b>	Solve Lebesgue integral
<b>CO3</b>	Describe absolute continuity, convex functions and bounded linear functionals.
<b>CO4</b>	Explain concept of metric space and compact spaces.
<b>Paper-8</b>	<b>TOPOLOGY II</b>
<b>CO1</b>	Understand the concept of regular and normal spaces.
<b>CO2</b>	Explain nets and filters.
<b>CO3</b>	Describe product topology.
<b>CO4</b>	Explain concept of para compact spaces.

<b>Paper-9</b>	<b>DIFFERENTIAL GEOMETRY</b>
<b>CO1</b>	Understand the concept of surface and families of curves.
<b>CO2</b>	Explain surfaces of constant curvature.
<b>CO3</b>	Describe parallel surfaces.
<b>CO4</b>	Explain concept of compact surfaces.
<b>Paper-10</b>	<b>CLASSICAL MECHANICS</b>
<b>CO1</b>	Understand the concept of calculus of variation.
<b>CO2</b>	Explain Hamiltonian equations of motion.
<b>CO3</b>	Describe canonical transformations
<b>CO4</b>	Explain transformations and conversion theorems.
<b>SEMESTER – 3</b>	
<b>Paper-11</b>	<b>COMPLEX ANALYSIS</b>
<b>CO1</b>	Understand the concept of analytic function.
<b>CO2</b>	Explain power series representation of analytic functions.

<b>CO3</b>	Describe singularities and residues.
<b>CO4</b>	Explain convex functions.
<b>Paper-12</b>	<b>FUNCTIONAL ANALYSIS</b>
<b>CO1</b>	Understand the concept of normed spaces.
<b>CO2</b>	Explain inner product space.
<b>CO3</b>	Describe Hilbert and reflexive spaces.
<b>CO4</b>	Explain strong and weak convergence.
<b>Paper-13</b>	<b>MATHEMATICAL METHODS</b>
<b>CO1</b>	Understand the concept of Fourier transforms.
<b>CO2</b>	Solve Laplace transforms.
<b>CO3</b>	Calculate finite Fourier transforms.
<b>CO4</b>	Explain Legendre and Mellin transforms
<b>Paper-14</b>	<b>CORE ELECTIVE PAPER (GENERAL RELATIVITY)</b>
<b>CO1</b>	Understand the concept of tensor.

<b>CO2</b>	Explain principle of covariance and equivalence.
<b>CO3</b>	Describe planetary orbit.
<b>CO4</b>	Understand field equations.
<b>Paper-15</b>	<b>CORE SUBJECT CENTRIC PAPER (OPERATION RESEARCH I)</b>
<b>CO1</b>	Solve problems using Simplex method.
<b>CO2</b>	Explain Transportation and assignment problems.
<b>CO3</b>	Describe Games with strategies.
<b>CO4</b>	Demonstrate dynamic programming
<b>SEMESTER – 4</b>	
<b>Paper-16</b>	<b>DYNAMICAL SYSTEMS</b>
<b>CO1</b>	Understand the concept of flow of a differential equation.
<b>CO2</b>	Explain sinks and stability.
<b>CO3</b>	Describe local section and flow boxes.
<b>CO4</b>	Describe persistence of equilibria and closed orbits.

<b>Paper-17</b>	<b>PARTIAL DIFFERENTIAL EQUATIONS</b>
<b>CO1</b>	Understand the concept of partial differential equation.
<b>CO2</b>	Explain potential theory and elliptical differential equation.
<b>CO3</b>	Solve diffusion and parabolic differential equations.
<b>CO4</b>	Describe wave equation.
<b>Paper-18</b>	<b>NUMERICAL ANALYSIS</b>
<b>CO1</b>	Apply different methods to find approximate solution of equations.
<b>CO2</b>	Explain interpolation methods.
<b>CO3</b>	Describe minimax and least square approximation problem.
<b>CO4</b>	Apply trapezoidal and Simpsons rule.
<b>Paper-19</b>	<b>CORE ELECTIVE PAPER (COSMOLOGY)</b>
<b>CO1</b>	Understand the static cosmological models.
<b>CO2</b>	Explain various cosmological principles.
<b>CO3</b>	Describe flat, closed and open universe.



<b>CO4</b>	Understand how distance is calculated in universe.
<b>Paper-20</b>	<b>CORE CENTRIC PAPER (OPERATION RESEARCH II)</b>
<b>CO1</b>	Understand integer programming.
<b>CO2</b>	Explain queuing theory.
<b>CO3</b>	Describe non-linear programming.
<b>CO4</b>	Understand quadratic, fraction and global programming.

<b>M. Sc. Program outcomes</b>	
<b>M.Sc. Chemistry Semester I</b>	
<b>CH-101: Paper I (Inorganic Chemistry)</b>	
<b>CO1:</b>	To enable studentsto understand about stereochemistry and bonding ofvarious inorganic compounds on the basis of various theories.
<b>CO2:</b>	To enable studentsto understand about spectrophotometric andpotentiometric determination of metal ion and their reaction mechanism,
<b>CO3:</b>	To enable studentsto understand about boron compounds, their derivativesand applications.
<b>CO4:</b>	To enable studentsto know about different types and properties ofmetal-metal bonds and various types of polyacids
<b>CH-102: Paper II (Organic Chemistry)</b>	
<b>CO1:</b>	To enable studentsto understand about concept of aromaticity, variousactive intermediate,their properties and applications.
<b>CO2:</b>	To enable studentsto understand about stereochemistry, conformationalanalysis and optical activity of various compounds.
<b>CO3:</b>	To enable studentsto understand about various types of nucleophilicsubstitution reaction mechanism and its applications.
<b>CO4:</b>	To enable studentsto gain knowledge about various types of aromaticnucleophilic and Electrophilic substitution reaction mechanism.
<b>CH-103: Paper III (Physical Chemistry)</b>	

<b>CO1:</b>	To enable students to understand about relationship between microscopic properties of molecules with macroscopic thermodynamic observable.
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<b>CO2:</b>	To make students to understand the concept of phase rule, its calculation and relationship with other factors.
<b>CO3:</b>	To enable students to understand about surface phenomenon and properties and theories related to macromolecules.
<b>CO4:</b>	To enable students to understand about temperature dependent reactions and various theories.
<b>CH-104: Paper IV (Analytical Chemistry)</b>	
<b>CO1:</b>	To enable students to understand about quantitative assessment of data and how to communicate the results of their experiments.
<b>CO2:</b>	To enable students to understand about various types of techniques used for the separation and purification along with their applications.
<b>CO3:</b>	To enable students to understand about various types of chemical methods of analysis, their theories and various types of indicators
<b>CO4:</b>	To enable students to understand about electrochemical methods like conductometric and potentiometric methods.
<b>CH-105: Practical-I (Inorganic Chemistry)</b>	
<b>CO1:</b>	To enable students to understand about synthesis of inorganic complexes and their physiochemical analysis.
<b>CO2:</b>	To enable students to understand about quantitative analysis of some transition metals using various methods like volumetric, gravimetric and spectrophotometric methods.
<b>CO3:</b>	To enable students to understand about qualitative analysis of various inorganic mixtures.
<b>CH-106: Practical-II (Physical Chemistry)</b>	

<b>CO: 1</b>	To enable students to understand about various physical aspects and their applications.
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<b>CH-107: Seminar-I</b>	
<b>CO:1</b>	To enable studentsto gain knowledge and develop a positiveattitude and confidence towards the subject.
<b>M.Sc. Chemistry Semester II</b>	
<b>CH-201: Paper V (Inorganic Chemistry)</b>	
<b>CO1:</b>	To enable studentsto understand about electronic spectra and magneticproperties of transition metal complexes on the basis of various theories.
<b>CO2:</b>	To enable studentsto understand about various types of reactionmechanism of transition metal complexes.
<b>CO3:</b>	To enable studentsto understand about structure, classification andproperties of carbonyl metal pi-complexes.
<b>CO4:</b>	To enable studentsto understand about structure, classification andproperties of nitrosyl metal pi-complexes along with their applications.
<b>CH-202: Paper VI (Organic Chemistry)</b>	
<b>CO1:</b>	To enable studentsto understand basics of carbon-carbon andcarbon hetero bond formation in organic molecules.
<b>CO2:</b>	To enable studentsto understand fundamental basics of varioustypes of molecular rearrangement and elimination reactions.
<b>CO3:</b>	To enable studentsto understand the structure, properties and varioustypes of reactions involving free radicals.
<b>CO4:</b>	To enable studentsto understand about the green chemistry and its applicationin various fields.

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<b>CH-203: Paper VII (Physical Chemistry)</b>	
<b>CO1:</b>	To enable studentsto understand about quantum mechanics, Schrödingerwave equations and its applications along with the
<b>CO2:</b>	To enable studentsto understand various theories of ideal and non-ideal systems along with the non-equilibrium thermodynamics.
<b>CO3:</b>	To enable studentsto understand different types of solids crystals,their defects and their applications
<b>CO4:</b>	To enable studentsto understand statistical thermodynamics andnuclear chemistry.
<b>CH-204: Paper VIII (Analytical Chemistry)</b>	
<b>CO1:</b>	To enable studentsto understand various sampling techniques andstoichiometric reactions
<b>CO2:</b>	To enable studentsto understand various types of modern separationtechniques and their applications.
<b>CO3:</b>	To enable studentsto understand various types optical methods ofanalysis like spectrophotometry, colorimetry and flame photometry.
<b>CO4:</b>	To enable studentsto understand electrochemical methods used inanalysislike polarography and ampereometric titrations.
<b>CH-205: Practical-III (Organic Chemistry)</b>	
<b>CO1:</b>	To enable studentsto understand the separation, purification andidentification of the mixture of organic compounds
<b>CO2:</b>	To enable studentsto understand about multistep synthesis of some oforganic compounds.



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<b>CH-206: Practical-IV (Analytical Chemistry)</b>	
<b>CO1:</b>	To enable studentsto understandthe principles and applications ofmodern chemical instrumentation, experimental design and data analysis.
<b>CO2:</b>	To enable studentsto understand various applications ofelectroanalytical techniques
<b>CH-207: Seminar-II</b>	
<b>CO:</b>	To enable studentsto understand the topics, gain confidence anddevelop a positive attitude towards the subject.
<b>M.Sc. Chemistry Semester III</b>	
<b>ORGANIC CHEMISTRY SPECIALIZATION</b>	
<b>CH-301: Paper IX (Special I-Organic Chemistry)</b>	
<b>CO1:</b>	To enable studentsto understand about organic photochemistry, it'stheories and applications.
<b>CO2:</b>	To enable studentsto understand about pericyclic reactions, mechanismand its applications.
<b>CO3:</b>	To enable studentsto understandvarious types of oxidizing andreducing agents and important reactions associated with them.
<b>CO4:</b>	To enable studentsto understand about synthetic application and chemicalproperties of phosphorous, silicon, sulphur and boron compounds.
<b>CH-302: Paper X (Special II-Organic Chemistry)</b>	

<b>CO1:</b>	To enable students to understand about classification, nomenclature, occurrence, structural determination of terpenoids and porphyrins
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<b>CO2:</b>	To enable studentsto understand about classification, nomenclature,occurrence, structural determination of alkaloids and prostaglandins.
<b>CO3:</b>	To enable studentsto understand about classification, nomenclature,occurrence, isolation, structural determination of steroids and plant pigments.
<b>CO4:</b>	To enable studentsto know about classification, nomenclature,occurrence, structural determination of some biomolecules like carbohydrates, amino acids, proteins andpeptides.
<b>CH-305: Practical-V (Organic Chemistry Special)</b>	
<b>CO1:</b>	To enable studentsto understand about quantitative analysis for theestimation of various compounds.
<b>CO2:</b>	To enable studentsto gain knowledge ofisolation techniques used inlaboratory.
<b>CO3:</b>	To enable studentsto understand about qualitative analysis of some oforganic compounds.
<b>CH-303: Paper XI (Elective- Polymer Chemistry)</b>	
<b>CO1:</b>	To enable studentsto understand about classification, nomenclature,occurrence, structural determination of various types of polymers
<b>CO2:</b>	To enable studentsto understand about molecular mass determinationmethods of polymers.
<b>CO3:</b>	To enable studentsto understand about methodology to study the physicalproperties of polymers.
<b>CO4:</b>	To enable studentsto understand about classification, nomenclature,occurrence, structural determination of some of the commercial polymers.
<b>CH-306: Practical VI–Elective (Polymer Chemistry)</b>	

**CO:1**

To enable studentsto understand about synthesis and physicochemicalproperties of polymers

<b>CH-304: Paper XII Core Subject Centric - I: Spectroscopy - I</b>	
<b>CO1:</b>	To enable studentsto know about the symmetry of molecules andapplications of symmetrical operations and group theory.
<b>CO2:</b>	To enable studentsto understand about mass spectrometry and Mossbauerspectroscopic methods.
<b>CO3:</b>	To enable studentsto understand about principle and applications ofmicrowave and esr spectroscopy.
<b>CO4:</b>	To enable studentsto understand about principles and applications of IRand Raman spectroscopy
<b>CH-307: Seminar-III</b>	
<b>CO:1</b>	To enable studentsto gain confidence on the topic given to them and developand interest along with positive attitude towards the subjects.
<b>M.Sc. Chemistry Semester IV</b>	
<b>CH-402: Paper XIV (Special II-Organic Chemistry)</b>	
<b>CO1:</b>	To enable studentsto understand about classification, nomenclature,occurrence, structural determination and kinetics of enzymes
<b>CO2:</b>	To enable studentsto understand about synthesis and chemical propertiesof some of the heterocyclic and bioactive compounds.
<b>CO3:</b>	To enable studentsto understand about classification, nomenclature,occurrence, structural determination of nucleic acids, lipids and vitamins
<b>CO4:</b>	To enable studentsto understand about classification, nomenclature,occurrence, synthesis and applications of various types of dyes,drugs.

<b>CH-405: Practical-VII (Organic Chemistry Special)</b>	
<b>CO1:</b>	To enable studentsto understand about classical and instrumentaltechnique.
<b>CO2:</b>	To enable studentsto understand about various methods of estimationusing spectrophotometer and colorimeter.
<b>CO3:</b>	To enable studentsto understand about multistep synthesis of some of theorganic compounds.
<b>CO4:</b>	To enable studentsto understand about application of spectroscopy for thestructural determination of some of the organic compounds.
<b>CH-403: Paper XV (Elective- Polymer Chemistry)</b>	
<b>CO1:</b>	To enable studentsto understand about the different types of polymerization.
<b>CO2:</b>	To enable studentsto understand about various techniques ofpolymerizations.
<b>CO3:</b>	To enable studentsto understand about various methods for the structuraldetermination of polymers.
<b>CO4:</b>	To enable studentsto understand about synthesis and application ofvarious types of polymers
<b>CH-404: Paper XVI Core Subject Centric – II: Spectroscopy – II</b>	
<b>CO1:</b>	To enable studentsto understand thetheories and applications of uv-visible spectroscopy for the structural determination of the organic compounds.
<b>CO2:</b>	To enable studentsto understand thetheories and basic knowledge ofnuclear magnetic resonance spectroscopy for the structural determination of the organiccompounds.

**CO3:**

To enable students to understand about the application of spectroscopy for the structural determination of the organic compounds.



<b>CO4:</b>	To enable students to know about theories and application of diffraction techniques for the structural determination of the organic compounds.
<b>CH-406: Practical VIII- Project</b>	
<b>CO:1</b>	To enable students to develop an interest towards the subject by developing a research aptitude and scientific approach towards the problems.
<b>CH-407: Seminar-IV</b>	
<b>CO: 1</b>	To enable students to explore them by developing the scientific attitude and confidence. towards the concern subjects.

<b>Course Outcomes of Master Of Commerce (M.Com.)</b>	
<b>SEMESTER - 1</b>	
<b>Paper-1</b>	<b>INDIAN FINANCIAL SYSTEM</b>
<b>CO1</b>	To make aware the students about the financial market & capital market
<b>CO2</b>	Students will be familiar with the applicability of banking & Technology.
<b>CO3</b>	To know the overall functioning of insurance sector.
<b>CO4</b>	To acquire knowledge about the primary market secondary market functioning of SEBI.
<b>Paper-2</b>	<b>MANAGERIAL ECONOMICS</b>
<b>CO1</b>	To aware about demand forecasting of different product in market
<b>CO2</b>	To know the production process of different goods
<b>CO3</b>	To know about the price policy of company and administered price policy of government
<b>CO4</b>	To aware about the business cycle in economy
<b>Paper-3</b>	<b>MARKETING MANAGEMENT</b>
<b>CO1</b>	To familiarize the students with the philosophies of marketing - Environment
<b>CO2</b>	To understand the consumer & industrial

<b>CO3</b>	To acquire knowledge about the product & promotion strategies.
<b>CO4</b>	To know vertical marketing implementation & systems.
<b>Paper-4</b>	<b>ADVANCE FINANCIAL ACCOUNTING</b>
<b>CO1</b>	How the accounting standards are applicable.
<b>CO2</b>	How to maintain various types of records viz. statutory books, statutory reports etc. with the help of computer.
<b>CO3</b>	To acquire the knowledge about the new trends in accounting.
<b>CO4</b>	To get the knowledge about the hire purchase accounting, fire insurance claim, valuations of goodwill , valuation of shares etc.
<b>CO5</b>	To Develop techniques and skills for analysis, interpretation of books of accounts and making good reports to managers which support decision making.
	<b>M.com II Even semester-II</b>
<b>Paper-5</b>	<b>CO-OPERATION</b>
<b>CO1</b>	To make aware the students about the co-operative movement in india.
<b>CO2</b>	To study the co-operative credit institutions in india.
<b>CO3</b>	To integrate knowledge ,skill& attitude of co-operatives & rural economy.

<b>CO4</b>	To understand the basic concept of globalization & co-operation
<b>Paper-6</b>	<b>RESEARCH METHODOLOGY</b>
<b>CO1</b>	To develop the research attitude in students
<b>CO2</b>	To know the significance of research in life
<b>CO3</b>	To understand methods of data Collection primary data & secondary data
<b>CO4</b>	To aware about the procedure for hypothesis testing
<b>Paper-7</b>	<b>HUMAN RESOURCE MANAGEMENT</b>
<b>CO1</b>	To know the role of significance of HRM
<b>CO2</b>	To learn how to face interview
<b>CO3</b>	To make aware the students about the recent trends in HRM in context with promotions & transfers.
<b>CO4</b>	To understand the concept & procedures of job evaluation and job design
<b>CO5</b>	To understand and significance of employee welfare & social measures.
<b>Paper-8</b>	<b>ADVANCE COST ACCOUNTING:</b>

<b>CO1</b>	Preparation of various types of cost statements
<b>CO2</b>	Preparation of budgets and ensure budgetary control
<b>CO3</b>	Assess the emerging themes in cost accounting.
<b>CO4</b>	Know the advanced costing systems like ABC.
<b>CO5</b>	Identify costs relevant for decision making and those which are irrelevant.
<b>SEMESTER - 3</b>	
<b>Paper-1</b>	<b>COMPUTERISED ACCOUNTING IN COMMERCE</b>
<b>CO1</b>	To acquire knowledge about E-business,E-commerce-commerce
<b>CO2</b>	To understand MS office & Use of different functions.
<b>CO3</b>	To acquire knowledge of Power-Point
<b>CO4</b>	To learn tally ERP.9
<b>Paper-2</b>	<b>SERVICE SECTOR MANAGEMENT</b>
<b>CO1</b>	To know the concept & applicability of KPO & BPO

<b>CO2</b>	To aware about the working of IRDA
<b>CO3</b>	To expose students about marketing concept
<b>CO4</b>	To understand customers needs & expectations.
<b>Paper3</b>	<b>ADVANCE MANAGEMENT ACCOUNT</b>
<b>CO1</b>	Describe and critically evaluate major developments in management accounting;
<b>CO2</b>	Prepare, explain and evaluate budgets and capital expenditures proposals.
<b>CO3</b>	Application of different types of ratios for management decision .
<b>CO4</b>	Evaluate management control and performance using relevant numerical and analytical statements like , fund flow, cash flow etc.
<b>CO5</b>	Application of breakeven analysis for management decision.
<b>Paper-4</b>	<b>STATISTACAL TECHNEQUE</b>
<b>CO1</b>	How to calculate and apply measures of location and measures of dispersion -- grouped and ungrouped data cases.
<b>CO2</b>	How to apply discrete and continuous probability distributions to various business problems.
<b>CO3</b>	Perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases.

<b>CO4</b>	Learn non-parametric test such as the Chi-Square test for Independence as well as Goodness of Fit.
<b>CO5</b>	Compute and interpret the results of Regression and Correlation Analysis, for forecasting.
<b>Paper-5</b>	<b>OPERATION RESERCH</b>
<b>CO1</b>	To know how to maximize profit & minimize cost through mixed constraints in linearprogramming.
<b>CO2</b>	To learn how to assign work to the workers & employees
<b>CO3</b>	To understand the idea of economic ordering quality.
<b>CO4</b>	To apply concept of two person zero sum games & their solutions
<b>Paper-6</b>	<b>E-COMMERCE</b>
<b>CO1</b>	To know benefits of e-commerce
<b>CO2</b>	To understand the IT Act 2000 and cyber crimes.
<b>CO3</b>	To learn about E-payment system - Debit card, credit card, smart card, e- money.
<b>CO4</b>	To understand e-commerce applications in various industries like banking, online marketing etc
<b>Paper-7</b>	<b>INTERNATIONAL BUSINESS ENVIRONMENT</b>

<b>CO1</b>	To know the nature significance & elements of economic environment in current scenario
<b>CO2</b>	To integrated knowledge of international economic cooperation 7 agreements among FIT investments Euro/ADR issue, mergers & acquisitions.
<b>CO3</b>	To expose students about exim policy, export promotion & impact substitution.
<b>CO4</b>	To learn about international co-operation
	<b>SEMESTER 4</b>
	<b>Current Trends in digital Commerce</b>
<b>CO1</b>	To make students aware about the benefits of digital commerce.
<b>CO2</b>	To acquaint students with the current trends in digital commerce in business environment.
<b>CO3</b>	To learn about different digital payments like Google pay phonepe at etc.
<b>CO4</b>	To understand business websites mobile apps etc.



	<b>CO of MCA Department</b>
<b>SEMESTER - 1</b>	
<b>Paper-1</b>	<b>Advanced Java Programming</b>
<b>CO1</b>	Java Applets & Application, Object Oriented Programming In Java, Object & Classes.
<b>CO2</b>	Java Class, Methods, Arrays, Applets 7.
<b>CO3</b>	Creating GUI , Frames, Animation In Java, Threads.
<b>CO4</b>	Networking in java.
<b>Paper-2</b>	<b>Data Communication and Network</b>
<b>CO1</b>	Data Communication:- Data Transmission, Data Encoding, Digital Data Communication, Data Link Control.
<b>CO2</b>	Data Communication Networking:- Circuit Switching, Packet Switching, LAN & MAN
<b>CO3</b>	Communication Architecture:- Protocols & Architecture, Internetworking.
<b>CO4</b>	Protocols:-Transport Protocols, Session Services & Protocols.
<b>Paper-3</b>	<b>Open source Web Programming using PHP</b>
<b>CO1</b>	Describes the history of PHP ,How to install to windows and Linex

<b>CO2</b>	Describe how to use functions, string and Arrays in PHP
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<b>CO3</b>	Create class , object and different Web Techniques
<b>CO4</b>	Describe Graphics PDF, XML files
<b>Paper-4</b>	<b>Advanced DBMS and Administration</b>
<b>CO1</b>	Understand the working principle of Compiler design.
<b>CO2</b>	Understand the working of Top - down & Bottom - up parsing techniques.
<b>CO3</b>	Able to apply the knowledge of algorithms and implementation techniques for type-checking , code-generation and optimization.
<b>CO4</b>	Classify the various internal form of source program-semantic analysis , symbol tables , error detection and recovery and directed acyclic graph.
<b>Paper-5</b>	<b>Software Engineering</b>
<b>CO1</b>	Introduction to Software Engineering, A Generic view of process
<b>CO2</b>	Requirements engineering process, System models, Design Engineering
<b>CO3</b>	Object-Oriented Design, Testing Strategies, Product metrics
<b>CO4</b>	Metrics for Process and Projects, Quality Management
<b>SEMESTER - 2</b>	
<b>Paper-1</b>	<b>C# and ASP .NET</b>

<b>CO1</b>	Introduction to .NET, Introduction to Common Language Runtime (CLR) Requirement of .NET application
<b>CO2</b>	Introduction to C Sharp, Enum ,Files
<b>CO3</b>	Introduction to ASP .NET, Installing ASP .NET. ASP.NET Applications, Web Form Fundamentals
<b>CO4</b>	State Management Tracing, Logging and Error Handling, Advanced ASP. NET -Component-Based Programming
<b>Paper-2</b>	<b>Cloud Computing</b>
<b>CO1</b>	Origins and Influences to cloud computing, Implementation Levels of Virtualization.
<b>CO2</b>	Common Standards. Programming on Amazon AWS and Microsoft Azure.
<b>CO3</b>	Basic Terms and Concepts, Cloud Issues
<b>CO4</b>	Enabling Technologies for the Internet of Things, How the Cloud Will Change Operating Systems
<b>Paper-3</b>	<b>Computer Graphics</b>
<b>CO1</b>	Introduction of computer Graphics and its applications
<b>CO2</b>	Line drawing algorithms, DDA, Bresenham's, Circle generating, Mid-point circle algorithm
<b>CO3</b>	Basic transformation's, Composite transformation's, Reflection, Two dimensional viewi.
<b>CO4</b>	Fractal's geometry Fractal generation procedure, Gouraud shading, Phong shading.

<b>Paper-4</b>	<b>Cyber Forensics</b>
<b>CO1</b>	Systems Vulnerability Scanning, Networks Vulnerability Scanning.
<b>CO2</b>	Network Defense tools, Web Application Tools
<b>CO3</b>	Introduction to Cyber Crime and law.
<b>CO4</b>	Introduction to Cyber Crime Investigation
<b>Paper-5</b>	<b>Android Programming</b>
<b>CO1</b>	Getting an Overview of Android , The Command-Line Tools
<b>CO2</b>	Using Activities, Fragments, and Intents in Android Working with Activities.
<b>CO3</b>	Working with the User Interface Using Views and View Groups, Handling UI Events, Specialized Fragments, Handling Pictures and Menus with Views, Working with Image Views
<b>CO4</b>	Storing the Data Persistently, Introducing the Data Storage Options, Using the Internal Storage, Using the External Storage, Using the External Storage
<b>SEMESTER - 3</b>	
<b>Paper-1</b>	<b>Big Data Analytics</b>
<b>CO1</b>	Getting an Overview of Big Data, Introducing Technologies for Handling Big data, Understanding Hadoop Ecosystem, Understanding MapReduce Fundamentals and HBase
<b>CO2</b>	Understanding Big Data Technology Foundation, Storing Data In Data Bases and Data Warehouses

<b>CO3</b>	Exploring R, Reading DataSets and Exporting Data from R, Performing Graphical Analysis in R.
<b>CO4</b>	Data Visualization, Social Media Analytics and Text Mining
<b>Paper-2</b>	<b>Data Mining</b>
<b>CO1</b>	Introduction to Data Mining.
<b>CO2</b>	Exploring Data, Classification: Basic Concepts, Decision Trees, and Model Evaluation
<b>CO3</b>	Classification: Alternative Techniques, Association Analysis: Basic Concepts and Algorithms
<b>CO4</b>	Cluster Analysis: Basic Concepts and Algorithms, Anomaly Detection
<b>Paper-3</b>	<b>Python Programming</b>
<b>CO1</b>	Introducing Python, Python Fundamentals, Components of a python programming, Functions, Arguments, scoping, Exceptions and error trapping
<b>CO2</b>	Python's Built-In Functions, Interfacing to the OS, Processing Information
<b>CO3</b>	Working with Files, Using Python as RAD Tool
<b>CO4</b>	Web Development Basics, Security Standard Markup Language Processing, Other Python Web Tool, The Python Architecture:Namespaces, Code blocks and Frames
<b>Paper-4</b>	<b>Artificial Intelligence</b>
<b>CO1</b>	AI problems, AI Techniques, AI Search techniques

<b>CO2</b>	Knowledge Representation, Predicate Logic.
<b>CO3</b>	Games playing, Planning:.
<b>CO4</b>	Understanding as Constraint satisfaction, Distributed Reasoning Systems.
<b>Paper-5</b>	<b>Soft Computing</b>
<b>CO1</b>	Introduction of soft computing, , A* algorithm, AO* Algorithms, Statistical Reasoning
<b>CO2</b>	Neural Network
<b>CO3</b>	Unsupervised learning in Neural Network, Adaptive Resonance Theory.
<b>CO4</b>	Fuzzy systems.
<b>SEMESTER - 4</b>	
	<b>Project Work -</b>
<b>CO1</b>	To take experience of live project.
<b>CO2</b>	To understand recent technologies.
<b>CO3</b>	Student personality development increase.
<b>CO4</b>	Project facility available by AICTE in MCA to get place in IT industry.

<b>Course Outcomes of Master of Computer Management</b>	
<b>SEMESTER - 1</b>	
<b>Paper-1</b>	<b>FUNDAMENTALS OF INFORMATION TECHNOLOGY</b>
<b>CO1</b>	Understand the meaning and basic components of computer system.
<b>CO2</b>	Define and distinguish hardware and software components of computer systems.
<b>CO3</b>	Gain knowledge about five generations of computer systems.
<b>CO4</b>	Identify the various input and output units and their purpose.
<b>Paper-2</b>	<b>PROGRAMMING IN C &amp; OOPS CONCEPT</b>
<b>CO1</b>	Understand and develop well-structured programs using C language.
<b>CO2</b>	Understand the concept of problem solving and expression of solution through flow chart and algorithm.
<b>CO3</b>	Able to use the concept of different memory allocation methods.
<b>CO4</b>	Classify the various parts of program - data types, variables, operators, conditional & looping statements, functions, Pointers, Structure, Arrays, File handling.
<b>Paper-3</b>	<b>INTRODUCTION TO OPERATING SYSTEMS</b>
<b>CO1</b>	Understand the concept of Operating System.
<b>CO2</b>	Perform the analysis of performance comparison and understand the concept of deadlock and determine the solution of it.



<b>CO3</b>	Discuss various methods of scheduling.
<b>CO4</b>	Describe the various memory management techniques.
<b>Paper-4</b>	<b>COMPUTERIZED ACCOUNTING (TALLY ERP 9)</b>
<b>CO1</b>	Understand the Basic Accounting concept.
<b>CO2</b>	Understand the power and potential of Accounting Software (Tally ERP9) from the business perspective.
<b>CO3</b>	Company Setup & Configurations.
<b>CO4</b>	Understand the charts of Accounts Setup.
<b>SEMESTER - 2</b>	
<b>Paper-1</b>	<b>MANAGEMENT INFORMATION SYSTEMS</b>
<b>CO1</b>	Learn about the organizational and business context of systems development.
<b>CO2</b>	Learn to explain and apply system development methodologies, model, tools and techniques for developing quality software.
<b>CO3</b>	Learn to describe, organize and structure the components of system, including decisions about the system's hardware, software and network environment.
<b>CO4</b>	Learn about implementation, software testing, and deployment issues.
<b>Paper-2</b>	<b>CORE JAVA</b>
<b>CO1</b>	Understand the concept of Java programming.

<b>CO2</b>	Apply the knowledge of programming constructs.
<b>CO3</b>	Discuss the various packages , applets , threads and exception handling.
<b>CO4</b>	Perform the analysis of event driven java programming with graphics and controls using AWT toolkit
<b>Paper-3</b>	<b>QUANTITATIVE TECHNIQUES &amp; OPERATION RESEARCH</b>
<b>CO1</b>	Understand the concept of statistics and operation research.
<b>CO2</b>	Understand the importance of the use of OR application in decision Making environment
<b>CO3</b>	To formulate LPP and Obtain Graphical Solutions & Acquire General idea of the Simplex method.
<b>CO4</b>	To understand and solve transportation & assignment models.
<b>Paper-4</b>	<b>E-COMMERCE AND WEB DESIGNING</b>
<b>CO1</b>	Recognize the fundamental principles of e-Business and e-Commerce
<b>CO2</b>	Recognize the impact of Information and Communication technologies, especially of the Internet in business operations
<b>CO3</b>	Distinguish the role of Management in the context of e-Business and e-Commerce
<b>CO4</b>	Examine applications of e-Commerce in relation to the applied strategic
<b>SEMESTER - 3</b>	

<b>Paper-1</b>	<b>ADVANCE DATABASE MANAGEMENT SYSTEMS</b>
<b>CO1</b>	Understand the working principle of Compiler design.
<b>CO2</b>	Understand the working of Top - down & Bottom - up parsing techniques.
<b>CO3</b>	Able to apply the knowledge of algorithms and implementation techniques for type-checking , code-generation and optimization.
<b>CO4</b>	Classify the various internal form of source program-semantic analysis , symbol tables , error detection and recovery and directed acyclic graph.
<b>Paper-2</b>	<b>PRINCIPLES &amp; TECHNIQUES OF MANAGEMENT</b>
<b>CO1</b>	Discuss and communicate the management evolution and how it will affect future managers.
<b>CO2</b>	Observe and evaluate the influence of historical forces on the current practice of management.
<b>CO3</b>	Identify and evaluate social responsibility and ethical issues involved in business situations and logically articulate own position on such issues.
<b>CO4</b>	Explain how organizations adapt to an uncertain environment and identify techniques managers use to influence and control the internal environment.

<b>Course Outcomes of Post Graduate Diploma Of Computer &amp; Commercial Application - (PGDCCA)</b>	
<b>SEMESTER - 1</b>	
<b>Paper-1</b>	<b>FUNDAMENTALS OF INFORMATION TECHNOLOGY</b>
<b>CO1</b>	Understand the meaning and basic components of computer system.
<b>CO2</b>	Define and distinguish hardware and software components of computer systems.
<b>CO3</b>	Gain knowledge about five generations of computer systems.
<b>CO4</b>	Identify the various input and output units and their purpose.
<b>Paper-2</b>	<b>PROGRAMMING IN C &amp; OOPS CONCEPT</b>
<b>CO1</b>	Understand and develop well-structured programs using C language.
<b>CO2</b>	Understand the concept of problem solving and expression of solution through flow chart and algorithm.
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<b>CO3</b>	Company Setup & Configurations.
<b>CO4</b>	Understand the charts of Accounts Setup.
<b>SEMESTER - 2</b>	
<b>Paper-1</b>	<b>MANAGEMENT INFORMATION SYSTEMS</b>
<b>CO1</b>	Learn about the organizational and business context of systems development.
<b>CO2</b>	Learn to explain and apply system development methodologies, model, tools and techniques for developing quality software.
<b>CO3</b>	Learn to describe, organize and structure the components of system, including decisions about the system's hardware, software and network environment.
<b>CO4</b>	Learn about implementation, software testing, and deployment issues.
<b>Paper-2</b>	<b>CORE JAVA</b>

<b>CO1</b>	Understand the concept of Java programming.
<b>CO2</b>	Apply the knowledge of programming constructs.
<b>CO3</b>	Discuss the various packages , applets , threads and exception handling.
<b>CO4</b>	Perform the analysis of event driven java programming with graphics and controls using AWT toolkit
<b>Paper-3</b>	<b>QUANTITATIVE TECHNIQUES &amp; OPERATION RESEARCH</b>
<b>CO1</b>	Understand the concept of statistics and operation research.
<b>CO2</b>	Understand the importance of the use of OR application in decision Making environment
<b>CO3</b>	To formulate LPP and Obtain Graphical Solutions & Acquire General idea of the Simplex method.
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<b>Paper-4</b>	<b>E-COMMERCE AND WEB DESIGNING</b>
<b>CO1</b>	Recognize the fundamental principles of e-Business and e-Commerce
<b>CO2</b>	Recognize the impact of Information and Communication technologies, especially of the Internet in business operations
<b>CO3</b>	Distinguish the role of Management in the context of e-Business and e-Commerce

<b>CO4</b>	Examine applications of e-Commerce in relation to the applied strategic
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**DEPARTMENT OF ENGLISH**

**Course Outcome of BA English:**

**CO1:** Students will be able to use correct English in oral and written communication.

**CO2:** Students will be able to learn and understand human values.

**CO3:** Student will be able to understand, analyse and interpret literary work via-a-vis day to day experience.

**CO4:** Students will be able to be creative about ideas and concepts in communication.

**Course Outcome of BA English Literature:**

**CO1:** Students will be able to understand figures of speech and literary framework of great litterateur, so that they would be able to employ them in their expression.

**CO2:** Students will be able to understand values and message out of the lessons or literary work so that they can meaningfully integrate them as part of their experiences.

**CO3:** Students will be able to express themselves creatively.

**Course Outcome of B.Com. English:**

**CO1:** The Student will be able to develop basic language proficiency.

**CO2:** The Student will be able to develop Business Correspondence Skills.



**CO3:**

The students will be able to understand entrepreneurial skills.

<b>CO4:</b>	The Student will develop soft skills.
<b>Course Outcome of BBA English:</b>	
<b>CO1:</b>	Students will be aware of the the global mindset.
<b>CO2:</b>	She will develop functional and general management skills
<b>CO3:</b>	Students will be able to communicate effectively in different contexts.
<b>CO4:</b>	Students will be able to develop ethical thinking.
<b>Course Outcome of BCCA Communication Skills:</b>	
<b>CO1:</b>	The Student will be able to develop Business Communication skills
<b>CO2:</b>	The Student will learn about the grammar, syntax and vocabulary that is helpful in commerce and business.
<b>CO3:</b>	The Student will be able to develop soft skills.
<b><u>Course Outcome of B.Com. Supplementary English:</u></b>	
<b>CO1:</b>	The Student will be able to develop general vocabulary and Business terminology
<b>CO2:</b>	The Student will be able to develop grammar, vocabulary and syntax that will be helpful for business correspondence and communication.

**CO3:**

The Student will be able to learn and understand values from prose and poetry prescribed in the course.

**Course Outcome of B.Sc. Compulsory English:**

**CO1:** Students will be able to understand values and morals out of literary extracts.

**CO2:** Students will be able to know the importance of Liberal Arts so that they develop general intellectual capacities.

**CO3:** Students will be able to know the importance of Liberal Arts so that they develop general intellectual capacities.

**Department of English**

**Course Outcomes:**

**Course Outcome of M.A. English:**

**CO1:** The knowledge of Language and Literature will help students for research, job placement.

**CO2:** Students will be able to understand and analyze literary work on the basis of foundational concepts laid down by authors and critics.

**CO3:** Students will be able to express themselves with improved language ability in English language and literature.

**DEPARTMENT OF ECONOMICS**

**COURES OUTCOMES**

**M.A Economics I<sup>st</sup> Year Semester I**

**1T1: Micro Economic Analysis-I**

<b>CO1:</b>	To understand demand theory & its applicability.
<b>CO2:</b>	To understand consumer behavior & elasticity of demand.
<b>CO3:</b>	To understand concept of cost & production.
<b>CO4:</b>	To understand various theory of firms & its applicability.

**1T2: Macro Economic Analysis-I**

<b>CO1:</b>	To understand concept of national income & circular flow of economic activity.
<b>CO2:</b>	To understand various theories of employment & consumption function.
<b>CO3:</b>	To understand concept of multiplier & Investment function.
<b>CO4:</b>	To understand components of money supply like M1, M2,M3 & L1,L2,L3.

<b>1T3: Statistics for Economics-I</b>	
<b>CO1:</b>	To understand concept, meaning, scope & important of statistics & Indian statistics.
<b>CO2:</b>	To understand measuring central tendency, variability & shape.
<b>CO3:</b>	To understand methods of correlation & regression analysis.
<b>CO4:</b>	To understand concept of probability methods & density function.
<b>1T5: Indian economic policy-I</b>	
<b>CO1:</b>	To understand nature of Indian economy.
<b>CO2:</b>	To understand infrastructure and human development.
<b>CO3:</b>	To understand economic planning in India.
<b>CO4:</b>	To understand role of agriculture in Indian economy.
<b>1T10: Public Economics-1</b>	
<b>CO1:</b>	To understand role of government & fiscal federalism in India.
<b>CO2:</b>	To understand concept of public finance & their theories.

<b>CO3:</b>	To understand concept of public policy.
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<b>CO4:</b>	To understand concept of Indian Budget & Revenue.
<b>M.A I (Economics) Year Semester - II</b>	
<b>2T1- Micro Economic Analysis-II</b>	
<b>CO1:</b>	To understand concept of price and output in various markets competition, like Monopoly, monopolistic.
<b>CO2:</b>	To understand excess capacity under imperfect competition.
<b>CO3:</b>	To understand price & output under oligopoly, Game theory & theory of limit pricing.
<b>CO4:</b>	To understand various theory of distribution like marginal productivity, rent, interest, profit & alternative theories of distribution.
<b>CO5:</b>	To understand concept of welfare economics, welfare theories and market failure and public goods.
<b>2T2: Macro Economic Analysis-II</b>	
<b>CO1:</b>	To understand classical & modern approach to demand for money.
<b>CO2:</b>	To understand the concept of interest theories and wage flexibility.
<b>CO3:</b>	To understand the theories of Inflation.
<b>CO4:</b>	To understand the concept of trade cycles and financial markets.



<b>2T3: Statistics for Economics -II</b>	
<b>CO1:</b>	To understand the concept of sampling distribution, estimation and various aspects of Hypothesis.
<b>CO2:</b>	To understand the Test of Significance, chi-square analysis and analysis of variance.
<b>CO3:</b>	To understand various concept of time series analysis and forecasting.
<b>CO4:</b>	To understand measures and types of Index number.
<b>2T4: Indian Economic Policy–II</b>	
<b>CO1:</b>	To understand the concept & policy of Industrial sector in India
<b>CO2:</b>	To understand to concept of external sector of economy.
<b>CO3:</b>	To understand the financial system in India,.
<b>CO4:</b>	To understand the economic reforms& fiscal reforms in India& concept of WTO.
<b>2T10: Public Economics-II</b>	
<b>CO1:</b>	To understand Indian Tax system.
<b>CO2:</b>	To understand public expenditure in India.

<b>CO3:</b>	To understand public debt & deficit finance.
<b>CO4:</b>	To understand concept of fiscal policy & federal system in India.
<b>M.A Economics II<sup>nd</sup> Year Semester- III</b>	
<b>3T1: -Economics of Growth &amp; Development-I</b>	
<b>CO1:</b>	To understand conceptualizing development.
<b>CO2:</b>	To understand various issues in economic development.
<b>CO3:</b>	To understand the theories of economic development.
<b>CO4:</b>	To understand the classical & Neo classical models of growth.
<b>3T2: -International Trade &amp; Finance-I</b>	
<b>CO1:</b>	To understand theories of National & International trade.
<b>CO2:</b>	To understand recent development in international trade theories.
<b>CO3:</b>	To understand gains from international trade & their measurements.
<b>CO4:</b>	To understand effects of growth on trade.

<b>T5: -Labour Economics</b>	
<b>CO1:</b>	To understand the concept of labour market & labour problem in India.

<b>CO2:</b>	To understand various aspects of employment & unemployment schemes & its applicability.
<b>CO3:</b>	To understand wage theory & its determination & labour market discrimination.
<b>CO4:</b>	To understand concept of Industrial relation & labour trade unions in India.
<b>3T5: -Research Methodology-I</b>	
<b>CO1:</b>	To understand various aspects of research in social science & its different types.
<b>CO2:</b>	To understand the concept of research methodology & hypothesis & its applicability.
<b>CO3:</b>	To understand concept of research design & sample designing.
<b>CO4:</b>	To understand methods of data collection & analysis.
<b>M.A Economics II<sup>nd</sup> Year Semester- IV</b>	
<b>4T1: -Economics of Growth &amp; Development-II</b>	
<b>CO1:</b>	To understand various concept of domestic measures for economic development.
<b>CO2:</b>	To understand various aspect of domestic & International measures for economic development.
<b>CO3:</b>	To understand the concept of development of planning, its applicability & problems

**CO4:**

To understand structure of five year planning in India & role of NITI Aayog.

<b>4T2: -International Trade &amp; Finance-II</b>	
<b>CO1:</b>	To understand concept of trade restrictions in India.
<b>CO2:</b>	To understand economic integration & international organizations like- UNCTAD, IMF, and WTO.
<b>CO3:</b>	To understand concept of Balance of payment & foreign exchange system.
<b>CO4:</b>	To understand foreign capital & trade policies in India.
<b>4T6: -Rural Development</b>	
<b>CO1:</b>	To understand concept, nature & scope of rural development in India.
<b>CO2:</b>	To understand problems of rural development like- poverty, unemployment, & small & cottage industries.
<b>CO3:</b>	To understand concept of rural financial structure.
<b>CO4:</b>	To understand rural development strategies and programmes.
<b>4T10: -Research Methodology-II</b>	
<b>CO1:</b>	To understand concept of data processing and statistical analysis.
<b>CO2:</b>	To understand concepts of hypothesis testing methods.
<b>CO3:</b>	To understand contents of report writing.

**CO4:**

To understand ethical issues arise in conducting economic research and strategies for resolving.





पाठ्यक्रम प्रनतफलन

**CO-COURSE OUTCOME**

कला प्रथम िषि:प्रथम सत्र (FIRST SEMESTER)

विषय : हहंदी साहहत्य

इकाई एक :

- विद्यार्थियों में पयािरण-संरक्षण-चेतना का ननमािण होगा 1
- उनमें साहस, हहम्मत, स्िाभिमान, ईमानदारी, प्रेम, सहयोग आहद मानीय मूल्यों का संचार होगा 1

इकाई दो :

- रीन्द्रनाथ ठाकुर के व्यक्ततत्ि की विशेषताओं से विद्याथी पररर्चत होंगे 1
- भसनेमा' विधा के इनतहास, प्रकारों से विद्याथी अिगत होंगे 1

इकाई तीन :

- 'हहंदी साहहत्य के आहदकाल' की राजनीनतक, सामाकजक, धाभमिक एि साहहक्यक पररक्स्थनतयों से विद्याथी अिगत होंगे 1
- आहदकालीन साहहत्य की िाषा, छंद आहद का विश्लेषण करने में िह समथि होगा।
- छोटे-छोटे विषयों पर कविता बना पाने में िह समथि होगा 1

इकाई चार :	
	<ul style="list-style-type: none"> <li>• िारतेदु हररश्रंर, भसयाराम शरण गुप्त , प्रिा खेतान, राजी सेठ इन साहहत्यकारों के व्यक्ततत्ि एि कृ नतत्ि विद्यार्थियों को आकलन</li> </ul>
	<ul style="list-style-type: none"> <li>• झांसी की रानी की समार्ध पर , ग्राम लक्ष्मी की उपासना, मैं िी मानि हूँ इन रचनाओं के िापक्षीय एि कलापक्षीय िैभशष्ट्य से पररर्चत होंगे ।</li> </ul>
<b>कला प्रथम िषि : द्वितीय सत्र (SECOND SEMESTER)</b>	
<b>विषय : हहंदी साहहत्य</b>	
इकाई एक :	
	<ul style="list-style-type: none"> <li>• विद्यार्थियों में नाय विधा के प्रनत रुर्च ननमािण होगी।</li> </ul>
	<ul style="list-style-type: none"> <li>• ‘आधे-अधूरे’ नाटक के साननिय पठान से उनमें अभिनय कला चेतना ननमािण होगी ।</li> </ul>
	<ul style="list-style-type: none"> <li>• पारशिररक मूल्यों के प्रनत अर्धक सजगता ननमािण होगी ।</li> </ul>
इकाई दो :	
	<ul style="list-style-type: none"> <li>• नाटककार मोहन राके श के व्यक्ततत्ि की विशेषताओं से विद्याथी पररर्चत होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>• ‘आधे-अधूरे’ नाटक के िापक्ष एि कला पक्ष िैभशष्ट्य से विद्याथी अिगत होंगे ।</li> </ul>
इकाई तीन :	

	<ul style="list-style-type: none"> <li>साहस्य की गद्य विधाओं को विद्यार्थी विश्लेषण कर सकेंगे 1</li> </ul>
	<ul style="list-style-type: none"> <li>कहानी, एकांकी आहद के स्रूप को बताने में समथि होंगे ।</li> </ul>
इकाई चार :	
	<ul style="list-style-type: none"> <li>माखनलाल चतुर्दी, महाीर प्रसाद द्विर्दी, श्रीलाल शुतल, अशोक िाजपेयी आहद के व्यक्ततत्ि एि कृ नतत्ि के िैभशष्ट्य विद्यार्थी अिगत होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>जांन म स्नह-ांां का महत्ा, दहज़-प्रथा, ररशांत आहद भ्रष्टाचारा ए बाह्याडम्बरा क वराघ म आज़ उठान का िृवि विद्यार्थियों में जागृत होगी ।</li> </ul>
पाठ्यक्रम प्रनतफलन	
<b>CO - COURSE OUTCOME</b>	
कला द्वितीय िषि: तृतीय सत्र ( <b>THIRD SEMESTER</b> )	
विषय : हहंदी साहस्य	
इकाई एक :	
	<ul style="list-style-type: none"> <li>विद्यार्थी कबीर एि सूरदास के काव्य िैभशष्ट्य से अिगत होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>विद्यार्थियों नैनतक चेतना का ननमािण होगा 1</li> </ul>
इकाई दो :	

	<ul style="list-style-type: none"> <li>• विद्यार्थी तुलसीदास एि मीराबाई की चाररत्रक विशेषताओं को बताने में समथि होंगे 1</li> </ul>
	<ul style="list-style-type: none"> <li>• तुलसी एि मीरा के पदों का रसास्िादन करने में िेे समथि होंगे 1</li> </ul>
इकाई तीन :	
	<ul style="list-style-type: none"> <li>• 'हहंदी साहहत्य के िक्तकाल' की राजनीनतक, सामाकजक, धाभमिक एि साहहत्यक पररक्थनतयों से विद्यार्थी अिगत होंगे 1</li> </ul>
	<ul style="list-style-type: none"> <li>• िक्तकालीन साहहत्य की िाषा, छंद आहद का विश्लेषण करने में िह समथि होगा 1</li> </ul>
इकाई चार :	
	<ul style="list-style-type: none"> <li>• रैदास, रसखान, नानकदेि, केशिदास, संत नामदेि, संत ज्ञानेश्रिर, िूषण, सहजोबाई आहद के व्यक्ततत्ि एि कृ नतत्ि का विद्यार्थियों को आकलन होगा 1</li> </ul>
	<ul style="list-style-type: none"> <li>• िक्तत साहहत्य में इन रचनाकारों के प्रदेय को बता पाने में विद्यार्थी समथि होंगे 1</li> </ul>
<p>कला द्वितीय िषि : चतुथि सत्र (FOURTH SEMESTER)</p>	
<p>विषय : हहंदी साहहत्य</p>	
इकाई एक :	
	<ul style="list-style-type: none"> <li>• विद्यार्थियों को उपन्दास विधा की ताक्त्िक पृष्ट्ठिभम का पररचय होगा 1</li> </ul>
	<ul style="list-style-type: none"> <li>• 'मृगनयनी' उपन्दास द्िारा उनमें ऐनतहाभसक चेतना का ननमािण होगा।</li> </ul>

इकाई दो :	
	<ul style="list-style-type: none"> <li>उपन्यासकार िृन्दांिन लाल िमांि की उपन्यास कला के िैभशष्ट्य को विद्याथी बता पाने में समथि होंगे ॥</li> </ul>
	<ul style="list-style-type: none"> <li>‘मृगनयनी’ उपन्यास का औपन्यासक तत्िों के आधार पर विश्लेषण कर पाने में िे सक्षम होंगे ।</li> </ul>
इकाई तीन :	
	<ul style="list-style-type: none"> <li>‘रस’ िि ‘अलंकार’ का अथि िि स्िरूप विद्यार्थियों को ज्ञात होगा ॥</li> </ul>
	<ul style="list-style-type: none"> <li>‘अभिधा’, ‘लक्षणा’ और ‘व्यंजना’ शब्द-शक्ततयों का तुलनात्मक पररचय देने में विद्याथी समथि होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>‘माधुयि’, ‘ओज’ तथा ‘प्रसाद’ काव्य-गुणों का उपयोजन करने की अभियोग्यता उनमे आएगी 1</li> </ul>
इकाई चार :	
	<ul style="list-style-type: none"> <li>‘संत साहहत्य’, ‘सूफी साहहत्य’, ‘रामिक्तत शाखा’ तथा ‘कृ ष्टणिक्तत शाखा’ की प्रमुख विशेषताओं से विद्याथी अिगत होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>सम्बंधत साहहत्य के प्रमुख कवियों के नाम और उनके योगदान को बता पाने में विद्याथी समथि होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>रीनतकालीन साहहत्यक प्रिवियों िि कवियों पर चचांि की अभियोग्यता उनमें आएगी ।</li> </ul>
पाठ्यक्रम प्रनतफलन	
<b>CO (COURSE OUTCOME)</b>	
कला प्रथम िषि: प्रथम सत्र ( <b>FIRST SEMESTER</b> )	

विषय : अननिय हहंदी

इकाई एक :

- विद्याथी बातचीत में भशष्टाचार के ननयमों से पररर्चत होंगे ।
- प्रशासनक क्षेत्र से संबर्धत भ्रष्टाचार-विरोधी चेतना उनमें जागृत होगी ।

इकाई दो :

- विद्यार्थियों में प्रकृत के प्रनत अनुराग के िाि संचररत होंगे ।
- विद्यार्थियों में जीिन-संघषों के प्रनत स्िीकार िाि ननभमित होगा ।

इकाई तीन :

- विद्याथी 'पारशिवषक शब्दािली' के स्िरूप एि प्रयोजन को जान सकेंगे ।
- हहंदी एि अंग्रेज़ी पारशिवषक शब्दों का उपयोजन कर सकने में समथि होंगे ।
- पत्र-विधा के स्िरूप से विद्याथी पररर्चत होंगे ।
- 'कायािलयीन', 'व्यािाहारक', 'आिेदन' आहद पात्र-प्रकारों के महत्त्ि को समझते हुए विद्याथी उसका जीिन में उपयोजन करेंगे ।

इकाई चार :

- बालकृ षण ि्ट, प्रेमचंद, राजकमल चौधरी, रामेश्रि शतल अंचल आहद रचनाकारों के कृतत्त्ि को िेे जान सकेंगे ।

	<ul style="list-style-type: none"> <li>जींिन की सच्ची जीत, बाज़ार एि ग्राहक आहद की िंस्तविकता से उनका पररचय होगा ।</li> </ul>
<b>पाठ्यक्रम प्रतिफलन</b>	
<b>CO (COURSE OUTCOME)</b>	
<b>कला प्रथम वर्ष: द्वितीय सत्र (SECOND SEMESTER)</b>	
<b>ववर्य : अतनवायष हहिंदी</b>	
इकाई एक :	
	<ul style="list-style-type: none"> <li>विद्यथी कलकिा के सामाकजक, राजनीनतक एि आर्थिक पररिश तथा नमिदा नदी के सौंदयि से पररर्चत होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>जींिन के प्रनत संघषि-चेतना उनमें जागृत होगी ।</li> </ul>
इकाई दो :	
	<ul style="list-style-type: none"> <li>विद्यार्थियों में प्रकृत संरक्षण के िंािि संचररत होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>विद्यार्थियों में जींिन के प्रनत आशांिदी दृक्षटकोग, सद्गुणों का महत्त्ि, पाररिशरक मूल्यों संघषों के प्रनत स्िीकार ननभमित होगा ।</li> </ul>
इकाई तीन :	
	<ul style="list-style-type: none"> <li>विद्यथी कल्पना-विस्तार की संकल्पना से पररर्चत होंगे 1</li> </ul>
	<ul style="list-style-type: none"> <li>मुहािरे एि लोकोक्ततयों का िेे समुर्चत उपयोग कर सकें गे ।</li> </ul>

इकाई चार :	
	<ul style="list-style-type: none"> <li>विद्यार्थी नामिर भसंह, सुदेश शिंदे, ममता काभलया, राजेश जोशी आहद रचनाकारों के कृतित्तु को जान सकेंगे 1</li> </ul>
	<ul style="list-style-type: none"> <li>पारिारक मूल्यों, सामकक नैनतक मूल्यों के प्रनत िे सजग होंगे 1</li> </ul>
पाठ्यक्रम प्रनतफलन	
<b>CO (COURSE OUTCOME)</b>	
कला द्वितीय िषि: तृतीय सत्र ( <b>THIRD SEMESTER</b> )	
विषय :अननायि हहंदी	
इकाई एक :	
	<ul style="list-style-type: none"> <li>विद्यार्थियों में पयािरण के प्राणणयों के प्रनत संरक्षण-चेतना का ननमािण होगा 1</li> </ul>
	<ul style="list-style-type: none"> <li>जीिन में उपयोगता ि कला तथा आदशि ि व्यािहारकता इन दोनों पक्षों के प्रनत समन्डिय-बुद्ध का उनमें होगा 1</li> </ul>
इकाई दो :	
	<ul style="list-style-type: none"> <li>विद्यार्थी 'फीचर लेखन' के स्िरूप से अिगत होंगे 1</li> </ul>
	<ul style="list-style-type: none"> <li>उनमें 'प्रूफ शोधन'की योग्यता का ननमािण होगा 1</li> </ul>
इकाई तीन :	



	<ul style="list-style-type: none"> <li>• भशिमंगल भसंह 'सुमन', मनोहर श्याम जोशी, रिन्द्र काभलया, चर्त्रा मुद्रलआहद रचनाकारों के व्यक्ततत्त्ि एि कृ नतत्त्ि से विद्याथी होंगे ।</li> </ul>
इकाई चार	
	<ul style="list-style-type: none"> <li>• ठेले पर हहमालय, पतझड़, दोपहर का िोजन, िोर का तारा आहद रचनाओं के अध्ययन द्ारा विद्यार्थियों में प्रकृत-प्रेम, त्याग िािना, देशप्रेम आहद गुणों का विकास होगा ।</li> </ul>
<b>पाठ्यक्रम प्रतिफलन</b>	
<b>CO (COURSE OUTCOME)</b>	
<b>कला द्विवीय वर्ष: चिथष सत्र (FOURTH SEMESTER)</b>	
<b>ववर्य : अतनवायष हहिदी</b>	
इकाई एक :	
	<ul style="list-style-type: none"> <li>• ननबंध, रेखार्चत्र, व्यंग्य एि आत्मकथा जैसी विधाओं से विद्याथी िली-िांनत पररर्चत होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>• पूिि राष्ट्रपनत अब्दुल कलाम के महान व्यक्ततत्त्ि से िे जीिन-संघषि की प्रेरणा लेंगे ।</li> </ul>
इकाई दो :	
	<ul style="list-style-type: none"> <li>• नैनतक विकास के अंतर को आकभलत कर सकें गे ।</li> </ul>
	<ul style="list-style-type: none"> <li>• मानीय मूल्यों का महत्त्ि, ररशतों के मध्य की पािन चेतना से िे पररर्चत होंगे ।</li> </ul>

इकाई तीन :	
	<ul style="list-style-type: none"> <li>• विद्यार्थी 'विज्ञापन' के स्वरूप एवं प्रयोजन को जान सकेंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>• 'हंदा में संक्षुप्तकरण' के िशष्य को बता सकने में सथि हेंगे ।</li> </ul>
इकाई चार :	
	<ul style="list-style-type: none"> <li>• राम नरेश त्रपाठी, राहुल सांकृतानन, ओमप्रकाश िाल्मीकक, संजीि आहद साहहत्यकारों से विद्यार्थी पररर्चत हेंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>• 'मधुर िाषण' के महत्त्ि को समझते हुए उसका जीिन में उपयोजन करेंगे ।</li> </ul>
पाठ्यक्रम प्रनतफलन	
<b>CO (COURSE OUTCOME)</b>	
िाणणज्य प्रथम िषि : सेभमस्टर प्रथम	
विषय : अननियि हंदा	
इकाई एक :	
	<ul style="list-style-type: none"> <li>• िह पररश्रम, अनुशासन, साहस आहद गुणों का जीिन में उपयोजन करना सीखेगा ।</li> </ul>
	<ul style="list-style-type: none"> <li>• पारशिररक मूल्यों के प्रनत िह संिेदनशील होगा ।</li> </ul>
इकाई दो :	

	<ul style="list-style-type: none"> <li>• विद्यार्थियों में आध्यात्मिक ि नैनतक मूल्यों का ननमाण होगा</li> </ul>
	<ul style="list-style-type: none"> <li>• उनमें देश के प्रनत गि ि णि गौरि-मूल्यों का ननमाण होगा ।</li> </ul>
इकाई तीन :	
	<ul style="list-style-type: none"> <li>• विद्यार्थी पारशिवषक शब्दािली का व्यािहाररक उपयोग कर पाने में समथि होंगे ।</li> </ul>
इकाई चार :	
	<ul style="list-style-type: none"> <li>• 'कल्पना विस्तार' संकल्पना से िे पररर्चत होंगे ।</li> </ul>
<b>पाठ्यक्रम प्रतिफलन</b>	
<b>CO (COURSE OUTCOME)</b>	
<b>वाणिज्य प्रथम र्ष : सेममस्टर द्वितीय</b>	
<b>वर्य : अतनवायष हहिदी</b>	
इकाई एक :	
	<ul style="list-style-type: none"> <li>• विद्यार्थियों में पयािरण-सजगता की चेतना संिर्धित होगी ।</li> </ul>
	<ul style="list-style-type: none"> <li>• आधुननक साइबर तकनीक के लािों को बता पाने में िे समथि होंगे।</li> </ul>
इकाई दो :	

	<ul style="list-style-type: none"> <li>• विद्यार्थी के मन में प्रकृत एि पयाििरण के प्रनत प्रेम िािना उपजेगी ।</li> </ul>
	<ul style="list-style-type: none"> <li>• साक्षरता एि ज्ञान के उपयोग को िे जान सकेंगे ।</li> </ul>
इकाई तीन :	
	<ul style="list-style-type: none"> <li>• मुहािरे एि लोकोक्ततयों के रसास्िादन की क्षमता उसमें विकभसत होगी ।</li> </ul>
इकाई चार :	
	<ul style="list-style-type: none"> <li>• पत्र-लेखन कला कौशल का उनमें विकास होगा ।</li> </ul>
<b>पाठ्यक्रम प्रतिफलन</b>	
<b>CO (COURSE OUTCOME)</b>	
<b>वाणिज्य द्वितीय र्ष : सेममस्टर िृीय</b>	
<b>ववर्य : अतनवायष हहिदी</b>	
इकाई एक :	
	<ul style="list-style-type: none"> <li>• विद्यार्थीजीिन में व्यािहाररक ज्ञान को सैद्धान्तक ज्ञान की तुलना में अर्धक महत्ि देगा ।</li> </ul>
	<ul style="list-style-type: none"> <li>• िह पररश्रम, अनुशासन, साहस आहद गुणों का जीिन में उपयोग करना सीखेगा।</li> </ul>
	<ul style="list-style-type: none"> <li>• पयाििरण प्रदूषण, उसके कारणों एि उपायों पर समूह चचाि कर उनका व्यािहाररक पालन करने की चेतना उसमें</li> </ul>

	<ul style="list-style-type: none"> <li>पालतू पशुओं के प्रनत स्नेह-ननभमिनत जैसे मानीं मूल्यों का ननमाणिण उसमें होगा 1</li> </ul>
इकाई दो :	
	<ul style="list-style-type: none"> <li>तुलसीदास, मीरा बाई आहद के पदों द्वारा विद्यार्थियों में आध्यात्मक मूल्यों का ननमाणिण होगा</li> </ul>
	<ul style="list-style-type: none"> <li>रहीम के दोहों से नैनतक मूल्यों का ननमाणिण होगा 1</li> </ul>
इकाई तीन :	
	<ul style="list-style-type: none"> <li>विद्यार्थी अपना 'जीनिनि' स्ियं तैयार करने में सक्षम होगा।</li> </ul>
इकाई चार :	
	<ul style="list-style-type: none"> <li>रोज़गार हेतु 'साक्षात्कार' का सफलतापूर्िक सामना करने की क्षमता उसमें विकभसत होगी।</li> </ul>
<b>पाठ्यक्रम प्रतिफलन</b>	
<b>CO (COURSE OUTCOME)</b>	
<b>वाणिज्य द्विवीय र्ष : सेममस्टर चिुथष</b>	
<b>ववर्य : अतनवायष हहिदी</b>	
इकाई एक :	
	<ul style="list-style-type: none"> <li>विद्यार्थियों में पारशिररक मूल्यों के प्रनत आदर की िािना संिर्धित होगी।</li> </ul>

	<ul style="list-style-type: none"> <li>• कमांश्रित जींिन के प्रनत उनका दक्षटकोण दढ़ होगा 1</li> </ul>
इकाई दो :	
	<ul style="list-style-type: none"> <li>• विद्याथी के मन में प्रकृ नत एि पयांिरण के प्रनत प्रेम , जानत-पानत से ऊपर उठकर मानि धमि के प्रनत आस्था उपजेगी 1</li> </ul>
	<ul style="list-style-type: none"> <li>• ऐनतहाभसक महापुरुषों-िीरांगनाओं के प्रनत श्रद्धा एि प्रेरणा ननभमित होगी 1</li> </ul>
इकाई तीन :	
	<ul style="list-style-type: none"> <li>• विद्याथी 'प्रनतिदन लेखन' कर पाने में समथि होगा 1</li> </ul>
इकाई चार :	
	<ul style="list-style-type: none"> <li>• विद्याथी समाचारों के स्िरूपगत िैभशष्ट्य से पररर्चत होंगे 1</li> </ul>
	<ul style="list-style-type: none"> <li>• िेे विविध कायिक्रमों के 'समाचार लेखन' हहंदी िाषा में प्रिािी रूप से कर पाएंगे।</li> </ul>
<b>पाठ्यक्रम प्रतिफलन</b>	
<b>CO (COURSE OUTCOME)</b>	
<b>ववज्ञान प्रथम र्क : सेममस्टर प्रथम</b>	
<b>ववर्य : अतनवायष हहिदी</b>	
इकाई एक :	

	<ul style="list-style-type: none"> <li>• विद्यार्थियों में बुजुर्गों के प्रनत प्रेम, सहयोग, त्याग आहद पाररररक मूल्यों का संिधिन होगा ।</li> </ul>
	<ul style="list-style-type: none"> <li>• ितिमान राजनीनतक क्स्थनत के प्रनत चेतना-दृक्षट का उसमें विकास होगा 1</li> </ul>
इकाई दो :	
	<ul style="list-style-type: none"> <li>• विषम सामाकजक पररक्स्थनतयों के प्रनत विद्यार्थियों के मन में संिेदनशीलता तीव्र होगी 1</li> </ul>
	<ul style="list-style-type: none"> <li>• राजनीनतक पररदृश्य में िैचाररक पररपतिता का उनमें विकास होगा</li> </ul>
इकाई तीन :	
	<ul style="list-style-type: none"> <li>• विद्यार्थियों का 'ननबंध विधा' के स्िरूप से पररचय होगा 1</li> </ul>
इकाई चार :	
	<ul style="list-style-type: none"> <li>• ितिमान शैक्षणक, राजनीनतक, सामाकजक मुद्दों ऐ समस्याओं को विद्यार्थी ननबंध विधा के माध्यम से अभिव्यतत करने में समथि</li> </ul>
पाठ्यक्रम प्रनतफलन	
CO (COURSE OUTCOME)	
विज्ञान प्रथम िषि : सेभमस्टर द्वितीय	
विषय : अननियि हहंदी	
इकाई एक :	

	<ul style="list-style-type: none"> <li>• विद्यार्थी जीवित में रश्तों में स्नेह, ननस्िाथि, धैयि-संयम आहद के महत्त्ि को जान सकेंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>• जानत पर आधारत विषम-व्यिहार के प्रनत विद्यार्थियों विरोधी चेतना-दृष्टट का विकास होगा ।</li> </ul>
इकाई दो :	
	<ul style="list-style-type: none"> <li>• विषम सामाजक पररक्थनतयों के प्रनत विद्यार्थियों के मन में संिेदनशीलता तीव्र होगी ।</li> </ul>
	<ul style="list-style-type: none"> <li>• राजनीनतक पररदृश्य में िैचारक पररपतिता का उनमें विकास होगा ।</li> </ul>
इकाई तीन :	
	<ul style="list-style-type: none"> <li>• विद्यार्थी 'पत्र-लेखन' विधा के स्िरूप से पररर्चत होंगे ।</li> </ul>
इकाई चार :	
	<ul style="list-style-type: none"> <li>• विद्यार्थी कायािलयोन पत्र, व्यािहारक पत्र, आिेदन पत्र आहद के मध्य के अंतर को विश्लेषत करने में तथा उनका उपयोजन करने में सक्षम होंगे ।</li> </ul>



पाठ्यक्रम प्रतिफलन

CO-COURSE OUTCOME

एम. ए. हिंदी साहित्य - प्रथम वर्ष:प्रथम सत्र (FIRST SEMESTER)

वर्ष : 1T1 हिंदी साहित्य का इतिहास (आहदकाल से रीतिकाल िक)

इकाई एक :

- विद्यार्थी साहित्य-लेखन की ऐनतहाभसक परंपरा से पररर्चत होंगे 1

इकाई दो :

- विद्यार्थी आहदकालीन साहित्य को उसकी राजनीनतक, सामाक्जक, धाभमिक आहद पररक्स्थनतयों के पररप्रेक्ष्य में आकभलत कर

इकाई िीन :

- विद्यार्थी हहंदी साहित्य के िक्ततकाल की राजनीनतक, सामाक्जक, धाभमिक ि साहित्यक पररक्स्थनतयों से विद्यार्थी 3

- िक्ततकाल की प्रनतननर्ध धाराओं को विश्लेषत करने मे िह समथि होगा।

इकाई चार :

- रीनतकालीन साहित्यकारों के व्यक्ततत्ि ि कृ नतत्ि विद्यार्थियों को आकलन होगा 1

	<ul style="list-style-type: none"> <li>रीनतकालीन रचनाओं के िापक्षीय एि कलापक्षीय िैभशष्ट्य से विद्याथी पररर्चत होंगे ।</li> </ul>
<b>प्रश्न पत्र 2 – 1T2 : भारीय काव्यशास्त्र</b>	
<b>इकाई एक :</b>	
	<ul style="list-style-type: none"> <li>विद्याथी काव्य के लक्षण, हेतु, प्रयोजन, प्रकार बता पाने में समथि होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>विद्याथी िारतीय काव्य र्न्दतन परम्परा को विश्लेषत का सकें गे ।</li> </ul>
<b>इकाई दो :</b>	
	<ul style="list-style-type: none"> <li>विद्याथी अलंकार एि रस भसद्भ्रांत की अधारणाओं से पररर्चत होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>विद्याथी रस भसद्भ्रांतों का व्याहाररक उपयोजन करने में समथि होंगे ।</li> </ul>
<b>इकाई िीन :</b>	
	<ul style="list-style-type: none"> <li>विद्याथी रीनत और ध्िनन भसद्भ्रांत की अधारणाओं से पररर्चतहोंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>विद्याथी रीनत और ध्िनन भसद्भ्रांतों के िेद बताने में सक्म होंगे ।</li> </ul>
<b>इकाई चार :</b>	
	<ul style="list-style-type: none"> <li>विद्याथी िक्रोक्तत और और्चत्य भसद्भ्रांत की अधारणाओं से पररर्चत होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>विद्याथी िक्रोक्तताद और अभिव्यंजनािाद में अंतर बताने में समथि होंगे ।</li> </ul>

प्रश्न पत्र ३ :1T3- मध्यकालीन काव्य

इकाई एक :

- विद्याथी कबीर के व्यक्तित्वि एि कृ नतत्ि से अिगत होंगे ।

इकाई दो :

- विद्याथी जायसी और सूरदास – काव्य की विशेषताओं से पररर्चत होंगे ।

इकाई िीन :

- विद्यार्थियों को तुलसीदास के काव्य िैभशष्ट्य का पररचय होगा ।

इकाई चार :

- विद्याथी घनानंद एि त्रबहारी की काव्य विशेषताओं को तुलनात्मक रूप में प्रस्तुत करने में सफल होगा ।

प्रश्न पत्र 4 : 1T4 (A)– हहिंदी नाटक और रिंगमिंच

इकाई एक :

- विद्यार्थियों को हहंदी नाटक एि रंगमंच की िारतीय परम्परा का पररर्चत होगा ।

इकाई दो :

- विद्यार्थियों को प्रसाद कृत ‘चन्द्रगुप्त’ नाटक के ऐनतहाभसक पररिश का ज्ञान होगा ।

इकाई िीन :	
	<ul style="list-style-type: none"> <li>विद्यार्थी 'आधे-अधूरे' नाटक की आधुनिक संिेदना से पररर्चत होंगे।</li> </ul>
इकाई चार :	
	<ul style="list-style-type: none"> <li>विद्यार्थी 'कत्रबरा खड़ा बाज़ार में' नाटक की मूल संिेदना को बता पाने में सक्षम होंगे ।</li> </ul>
<b>पाठ्यक्रम प्रतिफल</b>	
<b>CO</b>	
<b>(COURSE OUTCOME)</b>	
<b>एम. ए. हिंदी साहस्य - प्रथम वर्ष:द्वितीय सत्र (SECOND SEMESTER)</b>	
<b>ववर्य : 2T1 हिंदी साहस्य का इतिहास (आधुनिक काल)</b>	
इकाई एक :	
	<ul style="list-style-type: none"> <li>विद्यार्थी आधुनिक कल की पृष्टिभम से पररर्चत होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>िे हंदी गद्य के आविाििे एि हंदी निजागरण की कस्थनतयों को जान सकें गे ।</li> </ul>
इकाई दो :	
	<ul style="list-style-type: none"> <li>विद्यार्थियों को िारतेंदु , द्विेदी तथा छायािादी युग की प्रिवियों का पररचय होगा ।</li> </ul>

	<ul style="list-style-type: none"> <li>• विभिन्न तुलनात्मक रूप से उपरोक्त युगीन साहित्यकारों का तुलनात्मक विश्लेषण बता पाने में समर्थ होंगे ।</li> </ul>
<b>इकाई तिन :</b>	
	<ul style="list-style-type: none"> <li>• विद्यार्थी प्रगतिवाद, प्रयोगवाद, नई कविता, नि गीत, अकविता तथा समकालीन कविता के विभिन्न पक्ष एवं कला पक्ष को बत में सफल होंगे ।</li> </ul>
<b>इकाई चार :</b>	
	<ul style="list-style-type: none"> <li>• विद्यार्थी उपन्यास-कहानी, नाटक-एकांकी, ननबंध, संस्मरण-रेखाचित्र, जीवनी-आत्मकथा, यात्रावृत्त, ररपोताजि आहद विधाओं के विकास का विश्लेषण करने में सक्षम होंगे ।</li> </ul>
	<ul style="list-style-type: none"> <li>• विद्यार्थी हहंदी आलोचना के विकास से पररर्चत होंगे ।</li> </ul>
<b>प्रश्न पत्र २ : 2T2 – हहंदी आलोचना : दृष्ट एवं प्रवृत्तियां</b>	
<b>इकाई एक :</b>	
	<ul style="list-style-type: none"> <li>• विद्यार्थियों का हहंदी आलोचना की विकास यात्रा से साक्षात्कार होगा ।</li> </ul>
<b>इकाई दो :</b>	
	<ul style="list-style-type: none"> <li>• विद्यार्थी हहन्दी आलोचना की प्रमुख प्रिवियों यथा- सामाजिक, सौंदर्यशास्त्रीय, शैलीविज्ञान, समाजशास्त्रीय, नई समीक्षा जैसे आलोचनात्मक प्रिनतयों तथा नए विमशों के पररप्रेक्ष में हहंदी साहित्य को आकभलत करेंगे</li> </ul>
<b>इकाई तिन :</b>	

	<ul style="list-style-type: none"> <li>आ. रामचन्द्र शुतल, हजारी प्रसाद द्वििेदी, नन्द दुलारे िाजपेयी, रामविलाश शमाि, नामिर भसंह आहद प्रमुख आलोचकों के पररर्चतहोंगे ।</li> </ul>
<b>इकाई चार :</b>	
	<ul style="list-style-type: none"> <li>विद्याथी विजय देि नाराजं साही, मुक्ततबोध, अशोक िाजपेयी, रमेशचंर शाह आहद रचनाकार-आलोचकों के प्रदेय को बता समथि होंगे ।</li> </ul>
<b>प्रश्न पत्र ३ : 2T3 - आधुतनक काव्य</b>	
<b>इकाई एक :</b>	
	<ul style="list-style-type: none"> <li>विद्याथी आधुननक युगीन महाकाव्य 'कामायनी'(श्रध्दा सगि)के िािपक्ष एि कलापक्ष से पररर्चत होंगे ।</li> </ul>
<b>इकाई दो :</b>	
	<ul style="list-style-type: none"> <li>विद्याथी ननराला-काव्य (राम की शक्तत, कु कु रमुिा)की विशेषताओं से पररर्चत होंगे ।</li> </ul>
<b>इकाई िीन :</b>	
	<ul style="list-style-type: none"> <li>विद्यार्थियों को अज्ञेय(असाध्य िीणा) और मुक्ततबोध(अँधेरे में)के काव्य िैभशष्ट्य का पररचय होगा ।</li> </ul>
<b>इकाई चार :</b>	
	<ul style="list-style-type: none"> <li>विद्याथी नागाजिन, रघुिीर सहाय, धूममल, राजेश जोशी की काव्य विशेषताओं को तुलनात्मक रूप में प्रस्तुत करने में</li> </ul>
<b>2T4 (C)प्रश्न पत्र 4 – प्रेमचिंद</b>	

इकाई एक :	
	<ul style="list-style-type: none"> <li>विद्यार्थियों को प्रेमचंद की रचना दृष्टि और रचना संसारका पररर्चत होगा 1</li> </ul>
इकाई दो :	
	<ul style="list-style-type: none"> <li>विद्यार्थियों को प्रेमचंद कृत उपन्यास 'गबन' द्वारा भारत की तत्कालीन सामाजिक पररक्स्थनतयों का ज्ञान होगा ।</li> </ul>
इकाई तिन :	
	<ul style="list-style-type: none"> <li>विद्यार्थी प्रेमचंद कृत कहाननयों 'कफन', 'पूस की रात', 'ठाकुर का कुआं' की संिेदना से पररर्चत होंगे ।</li> </ul>
इकाई चार	
	<ul style="list-style-type: none"> <li>विद्यार्थी प्रेमचंद के ननबंध 'साहल्य का उद्देश्य' का केंरीय िाि आकभलत करने में सक्षम होंगे ।</li> </ul>