Mula Education Society's

Shri Dnyaneshwar Mahavidyalaya, Newasa

Program Outcome /Course Outcome

(2020-21)

(A)Faculty of Science

1. Department of Chemistry

After successfully completing **B.Sc. Chemistry** Programme students will be able to:

Programme : B.Sc. (Bachelor of Science)	
Knowledge outcome	
PO1	Transfer and apply the acquired fundamental knowledge of chemistry, including basic concepts and principles of 1) Physical, Analytical Chemistry, organic chemistry, Inorganic chemistry and biochemistry; (2) analytic techniques and experimental methods for chemistry to study different branches of chemistry;
PO2	Demonstrate the ability to explain the importance of the Periodic Table of the Elementsand represent key aspects of it and its role in organizing chemical information.
Skills Outcomes	
PO1	Apply and demonstrate knowledge of essential facts, concepts, laws, principles andtheories related to chemistry.
PO2	Demonstrate the learned laboratory skills, enabling them to perform qualitative andquantitative analysis of given samples and able to make conclusions on it.
PO3	Set procedure and synthesize simple compounds like soap of commercial importance.
PO4	Engage in oral and written scientific communication, and will prove that they can think and work independently.
PO5	Respond effectively to unfamiliar problems in scientific contexts
PO6	Plan, execute of design experiment, make documentation of it, interpret data at entrylevel of chemical industry and report the results.

After successfully completing **B.Sc. Chemistry** Programme students will be able to:

Programme : B.Sc. (Bachelor of Science)	
PSO1	Understand the nature and basic concepts of Physical, Organic and Inorganic chemistry
PSO2	Analyze Organic and inorganic compounds qualitatively and quantitatively;
PSO3	Understand the applications of physical, organic, inorganic and analytical chemistry in pharmaceutical, agriculture and chemical industries.
PSO4	Able to perform experimental procedures as per laboratory manual in the area of physical, Inorganic and organic chemistry;
PSO5	Interpretation and synthesis of chemical information and data obtained from chemical and instrumental analysis

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CH- 101: Physical Chemistry	
The student who successfully completes this course students will be able to:	
CO1	Students will be able to apply thermodynamic principles to physical and chemical process.
CO2	Calculations of enthalpy , Bond energy, Bond dissociation energy , resonance energy
CO3	Maintain records of quantitative and qualitative analysis.
CO4	Variation of enthalpy with temperature –Kirchoff's equation
CO5	Third law of thermodynamic and its applications, Knowledge of Chemical equilibrium will make students to understand
CO6	Relation between Free energy and equilibrium and factors affecting on equilibrium constant.

F.Y.B.Sc. Chemistry	
CH- 102: Organic Chemistry	
The student who successfully completes this course students will be able to:	
CO1	The students are expected to understand the fundamentals, principles, and recent Developments in the subject area.
CO2	It is expected to inspire and boost interest of the students towards chemistry as themain subject
CO3	To create foundation for research and development in Chemistry

F.Y.B.Sc. Chemistry	
CH- 103: Chemistry Practical Course	
The student who successfully completes this course students will be able to:	
CO1	Importance of chemical safety and Lab safety while performing experiments in laboratory
CO2	Determination of thermochemical parameters and related concepts
CO3	Elemental analysis of organic compounds (non-instrumental)
CO4	Techniques of pH measurements
CO5	Chromatographic Techniques for separation of constituents of mixture

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F. Y. B. Sc. Chemistry	
CH-201: Inorganic Chemistry	
The student who successfully completes this course students will be able to:	
CO1	Various theories and principles applied to revel atomic structure.
CO2	Origin of quantum mechanics and its need to understand structure of hydrogen Atom.
CO3	Schrodinger equation for hydrogen atom
CO4	Shapes of orbital's identification
CO5	Explain rules for filling electrons in various orbital's- Aufbau's principle, Pauli exclusion principle, Hund's rule of maximum multiplicity
CO6	Discuss electronic configuration of an atom and anomalous electronic configurations.
CO7	Describe stability of half-filled and completely filled orbital's
CO8	Discuss concept of exchange energy and relative energies of atomic orbital's
CO9	Design Skeleton of long form of periodic table.
CO10	Describe Block, group, modern periodic law and periodicity
CO11	Classification of elements as main group, transition and inner transition elements
CO12	Explain characteristics of ionic bond, types of ions, energy consideration in ionic bonding, lattice and salvation energy and their importance in the context of stability and solubility of ionic compounds
CO13	Explain characteristics of ionic bond, types of ions, energy consideration in ionic bonding, lattice and salvation energy and their importance in the context of stability and solubility of ionic compounds.
CO14	Define Fajan's rule, bond moment, and dipole moment and percent ionic character.

F.Y.B.Sc. Chemistry	
CH- 202: Analytical Chemistry	
The student who successfully completes this course students will be able to:	
CO1	Calculations of mole, molar concentrations and various units of concentrations which will be helpful for preparation of solution.
CO2	Relation between molecular formula and empirical formula
CO3	Stoichiometry calculation and explanation
CO4	Define term mole, mill mole, molar concentration, molar equilibrium concentration and Percent Concentration.
CO5	SI units, distinction between mass and weight
CO6	Basics of type determination, characteristic tests and classifications, reactions of different functional groups.
CO7	Elemental analysis -Detection of nitrogen, sulfur, halogen and phosphorous by Lassiagen's test

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S.Y.B.Sc. Chemistry	
CH- 301: Physical Chemistry	
The student who successfully completes this course students will be able to:	
CO1	Define / Explain concept of kinetics, terms used, rate laws, molecularity, order.
CO2	Explain factors affecting rate of reaction. Explain / discuss / derive integrated rate laws, characteristics, expression for half-life and examples of zero order, first order, and second order reactions
CO3	Determination of order of reaction by integrated rate equation method, graphical method, half-life method and differential method.
CO4	Explain / discuss the term energy of activation with the help of energy diagram.
CO5	Explanation for temperature coefficient and effect of temperature on rate constant k.
CO6	Derivation of Arrhenius equation and evaluation of energy of activation graphically.
CO7	Derivations of collision theory and transition state theory of bimolecular reaction and comparison.
CO8	Solve / discuss the problem based applying theory and equations.
CO9	Define / explain adsorption, classification of given processes into physical and chemical adsorption.
CO10	Discuss factors influencing adsorption, its characteristics, differentiates types as physisorption and Chemisorption
CO11	Classification of Adsorption Isotherms, to derive isotherms.
CO12	Explanation of adsorption results in the light of Langmuir adsorption isotherm, Freundlich's adsorption Isotherm and BET theory.
CO13	Apply adsorption process to real life problem.
CO14	Solve / discuss problems using theory.
S.Y.B.Sc. Chemistry	
CH- 301: Analytical Chemistry	
The student who successfully completes this course students will be able to:	
CO1	Define, explain and compare meaning of accuracy and precision.
CO2	Apply the methods of expressing the errors in analysis from results.
CO3	Explain / discuss different terms related to errors in quantitative analysis.
CO4	Apply statistical methods to express his / her analytical results in laboratory. Solve problems applying equations
CO5	Explain / define different terms in volumetric analysis such as units of concentration, indicator, equivalence point, end point, standard solutions, primary and secondary standards, complexing agent, precipitating agent, oxidizing agent, reducing agent, redox indicators, acid base indicators, metallochome indicators, etc.
CO6	Perform calculations involved in volumetric analysis.
	Explain why indicator show colour change and pH range of colour change.
CO7	To prepare standard solution and **b.** perform standardization of solutions.
CO8	To construct acid – base titration curves and performs choice of indicator for particular titration.
CO9	Explain / discuss acid-base titrations, complex metric titration / precipitation titration / redox

	titration.
	Apply volumetric methods of analysis to real problem in analytical chemistry / industry

S. Y. B.Sc. Chemistry	
CH- 302: Inorganic Chemistry	
The student who successfully completes this course students will be able to:	
CO1	Define terms related to molecular orbital theory (AO, MO, sigma bond, pi bond, bond order, magnetic property of molecules, etc.).
CO2	Explain and apply LCAO principle for the formation of MO's from AO's.
CO3	Explain formation of different types of MO's from AO's.
CO4	Distinguish between atomic and molecular orbitals, bonding, anti-bonding and nonbonding molecular orbitals.
CO5	Draw and explain MO energy level diagrams for homo and hetero diatomic molecules
CO6	Define different terms related to the coordination chemistry (double salt, coordination compounds, coordinate bond, ligand, central metal ion, complex ion, coordination number, magnetic moment, crystal field stabilization energy, types of ligand, chelate effect, etc.)
CO7	Explain Werner's theory of coordination compounds. Differentiate between primary and secondary Valency. Correlate coordination number and structure of complex ion.
CO8	Apply IUPAC nomenclature to coordination compound.
S.Y.B.Sc. Chemistry	
CH- 302: Organic Chemistry	
The student who successfully completes this course students will be able to:	
CO1	Identify and draw the structures aromatic hydrocarbons from their names or from structure name can be assigned.
CO2	Explain / discuss synthesis of aromatic hydrocarbons.
CO3	Give the mechanism of reactions involved.
CO4	Explain /Discuss important reactions of aromatic hydrocarbon.
CO5	To correlate reagent and reactions.
CO6	Write / discuss the mechanism of Nucleophilic Substitution (SN1 , SN2 and SNi) reactions.
CO7	Explain /Discuss important reactions of alkyl / aryl halides.
CO8	To correlate reagent and reactions.
CO9	Give synthesis of expected alkyl / aryl halides.
CO10	Identify and draw the structures alcohols / phenols from their names or from structure name can be assigned.
CO11	Able to differentiate between alcohols and phenols
CO12	Explain / discuss synthesis of alcohols / phenols.
CO13	Write / discuss the mechanism of various reactions involved.
CO14	Explain /Discuss important reactions of alcohols / phenols.
CO15	To correlate reagent and reactions of alcohols / phenols
CO16	Give synthesis of expected alcohols / phenols.
CO17	Write / discuss the mechanism of Nucleophilic Substitution (SN1 , SN2 and SNi) reactions.
CO18	Explain /Discuss important reactions of alkyl / aryl halides.
CO19	To correlate reagent and reactions.
CO20	Give synthesis of expected alkyl / aryl halides.

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S.Y.B.Sc. Chemistry	
CH- 303: Chemistry Practical – III	
The student who successfully completes this course students will be able to:	
CO1	Verify theoretical principles experimentally.
CO2	Interpret the experimental data on the basis of theoretical principles.
CO3	Correlate theory to experiments. Understand/verify theoretical principles by experiment observations; explain practical output / data with the help of theory.
CO4	Understand systematic methods of identification of substance by chemical methods.
CO5	Write balanced equation for the chemical reactions performed in the laboratory.
CO6	Perform organic and inorganic synthesis and is able to follow the progress of the chemical reaction by suitable method (colour change, ppt. formation, TLC).
CO7	Set up the apparatus / prepare the solutions - properly for the designed experiments.
CO8	Perform the quantitative chemical analysis of substances explain principles behind it.
CO9	Systematic working skill in laboratory will be imparted in student.
CO10	Verify theoretical principles experimentally.
CO11	Interpret the experimental data on the basis of theoretical principles.
CO12	Correlate theory to experiments. Understand/verify theoretical principles by experiment
S.Y.B.Sc. Chemistry (Semester :IV)	
CH- 403:Physical Chemistry	
The student who successfully completes this course students will be able to:	
CO1	Define the terms in phase equilibria such as- system, phase in system, components in system, degree of freedom, one / two component system, phase rule, etc.
CO2	Explain meaning and Types of equilibrium such as true or static, metastable and unstable equilibrium
CO3	Discuss meaning of phase, component and degree of freedom.
CO4	Derive of phase rule.
CO5	Explain of one component system with respect to: Description of the curve, Phase rule relationship and typical features for i) Water system ii) Carbon dioxide system iii) Sulphur system
CO6	Define the terms in phase equilibria such as- system, phase in system, components in system, degree of freedom, one / two component system, phase rule, etc.
CO7	Explain meaning and Types of equilibrium such as true or static, metastable and unstable equilibrium
CO8	Discuss meaning of phase, component and degree of freedom.
CO9	Derive of phase rule.
CO10	Explain of one component system with respect to: Description of the curve, Phase rule relationship and typical features for i) Water system ii) Carbon dioxide system iii) Sulphur system
CO11	Define the terms in phase equilibria such as- system, phase in system, components in system, degree of freedom, one / two component system, phase rule, etc.
CO12	Explain meaning and Types of equilibrium such as true or static, metastable and unstable equilibrium
CO13	Discuss meaning of phase, component and degree of freedom.

CO14	Define various terms, laws, differentiate ideal and no-ideal solutions.
CO15	Discuss / explain thermodynamic aspects of Ideal solutions-Gibbs free energy change, Volume change, Enthalpy change and entropy change of mixing of Ideal solution.
CO16	Differentiate between ideal and non-ideal solutions and can apply Raoult's law.
CO17	Interpretation of i) vapour pressure–composition diagram ii) temperature- composition diagram.
CO18	Explain distillation of liquid solutions from temperature – composition diagram.
CO19	Explain / discuss azeotropes, Lever rule, Henrys law and its application.
CO20	Discuss / explain solubility of partially miscible liquids- systems with upper critical. Solution temperature, lower critical solution temperature and having both UCST and LCST.
CO21	Explain / discuss concept of distribution of solute amongst pair of immiscible solvents.
CO22	Derive distribution law and its thermodynamic proof.
CO23	Apply solvent extraction to separate the components of from mixture interest.
CO24	Solve problem by applying theory.
S.Y.B.Sc. Chemistry (Semester :IV)	
CH- 403:Analytical Chemistry	
The student who successfully completes this course students will be able to:	
CO1	Conductance, Ohm's law, cell constant, specific and equivalent conductance, molar conductance, Kohlrausch's law, etc. Discuss / explain Kohlrausch's law and its Applications, Conductivity Cell, Conductivity Meter, Whetstone Bridge.
CO2	Explain / discuss Conductometric titrations.
CO3	Apply Conductometric methods of analysis to real problem in analytical laboratory.
CO4	Solve problems based on theory / equations.
CO5	Correlate different terms with each other and derive equations for their correlations
CO6	absorbance, molar, Lamberts Law, Beer's Law, molar absorptivity
CO7	Discuss / explain / derive Beer's law of absorptivity.
CO8	Explain construction and working of colorimeter.
CO9	Apply colorimetric methods of analysis to real problem in analytical laboratory.
CO10	Solve problems based on theory / equations.
CO11	Correlate different terms with each other and derive equations for their correlations
CO12	Explain / define different terms in column chromatography such as stationary phase, mobile phase, elution, adsorption, ion exchange resin, adsorbate, etc.
CO13	Explain properties of adsorbents, ion exchange resins, etc.
CO14	Discuss / explain separation of ionic substances using resins.
CO15	Discuss / explain separation of substances using silica gel / alumina.
CO16	Apply column chromatographic process for real analysis in analytical laboratory.
CO17	Explain / define different terms in column chromatography such as stationary phase, mobile phase, elution, adsorption, ion exchange resin, adsorbate, etc.
CO18	Explain properties of adsorbents, ion exchange resins, etc.
S.Y.B.Sc. Chemistry (Semester :IV)	
CH- 404:Inorganic Chemistry	
The student who successfully completes this course students will be able to:	
CO1	Isomerism in coordination complexes
CO2	Explain different types of isomerism in coordination complexes.

CO3	Apply principles of VBT to explain bonding in coordination compound of different geometries.
CO4	Correlate no of unpaired electrons and orbitals used for bonding.
CO5	Identify / explain / discuss inner and outer orbital complexes.
CO6	Explain principle of CFT.
CO7	Apply crystal field theory to different type of complexes (Td, Oh, Sq. Pl complexes)
CO8	Explain: i) strong field and weak field ligand approach in Oh complexes ii) Magnetic properties of coordination compounds on the basis of weak and strong ligand field
CO9	ligand concept. iii) Origin of colour of coordination complex.
CO10	Calculate field stabilization energy and magnetic moment for various complexes.
S.Y.B.Sc. Chemistry (Semester :IV)	
CH- 404: Organic Chemistry	
The student who successfully completes this course students will be able to:	
CO1	After studying the aldehydes and ketones student will able to
CO2	Identify and draw the structures aldehydes and ketones from their names or from structure name can be assigned
CO3	Explain / discuss synthesis of aldehydes and ketones.
CO4	Write / discuss the mechanism reactions aldehydes and ketones.
CO5	Explain /Discuss important reactions of aldehydes and ketones.
CO6	To correlate reagent and reactions of aldehydes and ketones
CO7	Give synthesis of expected aldehydes and ketones.
CO8	Identify and draw the structures carboxylic acids and their derivatives from their names or from structure name can be assigned.
CO9	Explain / discuss synthesis of carboxylic acids and their derivatives.
CO10	Write / discuss the mechanism reactions carboxylic acids and their derivatives.
CO11	Explain /Discuss important reactions of carboxylic acids and their derivatives.
CO12	Correlate reagent and reactions of carboxylic acids and their derivatives
CO13	Give synthesis of expected carboxylic acids and their derivatives.
CO14	Identify and draw the structures amines from their names or from structure name can be assigned.
CO15	Explain / discuss synthesis of carboxylic amines.
CO16	Write / discuss the mechanism reactions carboxylic amines.
CO17	Explain /Discuss important reactions of carboxylic amines.
CO18	To correlate reagent and reactions of carboxylic amines.
CO19	Give synthesis diazonium salt from amines and reactions of diazonium salt.
CO20	Draw the structures of different conformations of cyclohexane.
CO21	Define terms such as axial hydrogen, equatorial hydrogen, and confirmation, substituted Cyclohexane, etc.
CO22	Convert one conformation of cyclohexane to another conformation and should able to
CO23	Identify governing structural changes.
CO24	Explain / discuss stability with respect to potential energy of different conformations of Cyclohexane.
S.Y.B.Sc. Chemistry (Semester :IV)	
CH- 405: Practical Chemistry	

The student who successfully completes this course students will be able to:	
CO1	Verify theoretical principles experimentally
CO2	Interpret the experimental data on the basis of theoretical principles.
CO3	Correlate the theory to the experiments. Understand / verify theoretical principles by experiment or explain practical output with the help of theory
CO4	Understand systematic methods of identification of substance by chemical methods.
CO5	Write balanced equation for all the chemical reactions performed in the laboratory.
CO6	Perform organic and inorganic synthesis and able to follow the progress of the chemical reaction.
CO7	Set up the apparatus properly for the designed experiments.
CO8	Perform the quantitative chemical analysis of substances and able to explain principles

T.Y.B. Sc. Chemistry	
Course CH-331 Physical chemistry, Sem.-I	
The student who successfully completes this course students will be able to:	
CO1	Define/recall various terms related to electrolytic conductance, molecular spectroscopy, chemical kinetics and phase diagram.
CO2	Write correct equation such as Ohms law, equivalent conductance, molar conductance, rate constant of first, second, third order reactions, Kohlarch law, Debye equation, transport number, molar polarization, force constant, energy of rotational, vibrational excitations, etc
CO3	Explain / describe various terms in electrolytic conductance, molecular spectroscopy, chemical kinetics and phase diagram. To derive relations between / among various terms / quantities in electrolytic conductance, molecular spectroscopy, chemical kinetics and phase diagram
CO4	Differentiate between / among the terms / quantities with suitable example such as molecularity and order of reaction, conductance and resistance, equivalent and molar conductance, rotational and vibrational spectra, etc
CO5	Apply his knowledge to explain / interpret spectra of simple diatomic molecules
CO6	Describe facts and observations in electrolytic conductance, molecular spectroscopy, chemical kinetics and phase diagram.
CO7	Describe facts and observations in electrolytic conductance, molecular spectroscopy,chemical kinetics and phase diagram.

T.Y.B. Sc. Chemistry	
Course CH-341 Physical chemistry, Sem.-II	
The student who successfully completes this course students will be able to:	
CO1	Define / recall various terms related to electrochemistry, nuclear chemistry and application of radioactivity, crystallography and basics of quantum chemistry
CO2	Derive equations for potentials of various types of cells and electrodes, Bragg equation, half of radioactive materials, kinetics of decay of radioactive materials, particle in 1D box, quantum tunneling, etc

CO3	Explain / describe various terms related to electrochemistry, nuclear chemistry and application of radioactivity, crystallography and basics of quantum chemistry
CO4	Derive relations between / among various terms / quantities related to electrochemistry, nuclear chemistry and application of radioactivity, crystallography and basics of quantum chemistry.
CO5	Apply his knowledge to explain experimental observation and should able to correlate theory and particle or observed facts
CO6	Describe facts and observations related to electrochemistry, nuclear chemistry and application of radioactivity, crystallography and basics of quantum chemistry

T.Y.B. Sc. Chemistry	
Course CH-332 Paper –II Inorganic Chemistry Sem-III	
The student who successfully completes this course students will be able to:	
CO1	Define terms related to molecular orbital theory, coordination chemistry
CO2	Explain mononuclear and hetero nuclear molecules, LCAO principle, primary and secondary valancy, bond order and magnetic properties of molecules
CO3	Distinguish between atomic and molecular orbitals, bonding and antibonding molecular orbitals, different theories of coordination chemistry
CO4	Understand the functions of operational amplifiers.
CO5	Draw MO energy level diagrams for homo and hetero nuclear diatomic molecules, crystal field splitting energy level dig. for octahedral and tetrahedral complexes
CO6	Apply IUPAC nomenclature rules and writ name of coordinate complexes, predict structure of complexes by using hybridization
CO7	Describe valance bond theory and crystal field theory to different type of complexes
CO8	Calculate effective atomic number and crystal field stabilization energy for various complexes

T.Y.B. Sc. Chemistry	
Course CH-342 Paper –II Inorganic Chemistry Sem-IV	
The student who successfully completes this course students will be able to:	
CO1	Define lanthanides, actinides, semiconductors, superconductor, close packed structure, lanthanide contraction, super heavy elements, catalyst, catalysis
CO2	Describe lanthanide contraction, types of holes in close pack structure
CO3	Distinguish between lanthanides and actinides, homogeneous and heterogeneous catalysis, n-type and p-type semiconductor, nuclear fusion and fission
CO4	Explain applications of lanthanides and actinides, superconductivity, acetic acid synthesis, properties of heterogeneous catalyst, separation of lanthanides
CO5	Explain n(E), and N(E) curves for semiconductors, band structures for sodium metal, hemoglobin, vit. B12
CO6	Predict product of nuclear reactions, geometry of ionic solid from radius ratio effect
CO7	Derive names of super heavy elements and symbols form IUPAC rules

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T.Y.B. Sc. Chemistry	
Course CH -333 Paper III: Organic chemistry Sem III	
The student who successfully completes this course students will be able to:	
CO1	Define the terms related to Organic Reactions such as Aliphatic Nucleophilic, Aromatic electrophilic and Nucleophilic Substitution Reactions
CO2	List Different factors responsible for reactivity of organic compounds in Addition reactions to Unsaturated compounds
CO3	Recall the information about acidity and Basicity
CO4	Explain the Elimination reactions
CO5	Solve the chemical Reactions for Aliphatic Nucleophilic, Aromatic electrophilic and Nucleophilic Substitution Reaction
CO6	Classify the organic reactions like substitution, Addition and elimination Reactions.
CO7	Categorize different nucleophiles Electrophiles and Bases

T.Y.B. Sc. Chemistry	
Course CH-334 Paper- IV Course- Analytical Chemistry, (Semester -I)	
The student who successfully completes this course students will be able to:	
CO1	Remember /write/ explain terms/ recall the terms such as gravimetric analysis, common ion effect, solubility product, formation of complex ion, TGA, DTA DSC, spectrophotometry, terms related to absorption measurement, polarography, FES, AAS.
CO2	Explain principles of electro-gravimetric analysis, Thermogravimetric analysis, differential thermal analysis, beers law and lamberts law, Polarography, AAS, FES.
CO3	Describe various components used in UV-Visible Spectrophotometry, AAS, FES, Polarography, TGA and DTA
CO4	Describe equations or reaction of solubility product, law of mass action, Lambert – Beers Law equation, Ilkvoic equation, equation for no. atoms in excited state, Nernst equation.
CO5	Describe Instrumentation of UV-Visible Spectrophotometer, AAS,FES, Polarography, TGA and DTA
CO6	Solve numerical problems related to solubility product, common ion effect, Themal analysis, polarography, spectrophotometer, AAS and FES
CO7	Apply Electro-gravimetric analysis for separation of metal ion, TGA, DTA, spectrophotometry, polarography AAS and FES.
CO8	Select particular chemical or instrumental method for analysis of sample
CO9	Judge what type of reagent need for the organic Conversion.

T.Y.B. Sc. Chemistry	
Course CH-344 Analytical Chemistry, (Semester -II)	
The student who successfully completes this course students will be able to:	
CO1	Remember /write/ explain terms/ recall the terms such as Distribution coefficient, Distribution ratio, Solvent extraction, chromatography, types of chromatography, Electrophoresis, types of electrophoresis, Nephelometry and Turbidimetry

CO2	Define the terms migration velocity, moving boundary method, zone electrophoresis, disc electrophoresis, Rf value, retention time, supercritical fluid chromatography, normalization, secondary peak, salting out, masking agent, counter-current extraction, synergistic extraction.
CO3	Discuss various components used in GC, HPLC, Turbidimetric and Nephelometry
CO4	Derive relationship between distribution coefficient and distribution ratio, equation of turbidance, equation of multiple extraction
CO5	Describe Instrumentation of HPLC, GC, Turbidimetric, Nephelometry, electrophoresis
CO6	Solve numerical problems related to distribution ratio, % extracted, Rf
CO7	Values, no. of plates and theoretical plate, turbidance. Select particular techniques for separation of sample

T.Y.B.Sc. Chemistry	
Course CH 335 Paper –V of Industrial Chemistry (Paper-V) Sem III	
The student who successfully completes this course students will be able to:	
CO1	Define all the terms related to modern approach to chemical industry, agrochemicals, food and starch.
CO2	List basic chemicals, petrochemicals and eco-friendly fuels, cement and glass industry
CO3	Recall information about basic chemicals used in industry, agrochemicals, fuels and their types, nutritive aspects of food.
CO4	Select which principles are appropriate for industrial set up and to improve the yield of product
CO5	Explain processes of manufacture of chemicals related to industry, properties of fuels, nutritive aspects of food and quality of soil.
CO6	Classify fuels, chemical reactions, plant nutrients, herbicides, pesticides, insecticides and fungicides, glass and cement.
CO7	Analyze applications and synthesis of different types of industrial chemicals and agrochemicals
T.Y.B.Sc. Chemistry	
Course CH 345 Industrial Chemistry (Paper V) Sem. IV,	
The student who successfully completes this course students will be able to:	
CO1	Define the terms related to polymer chemistry, sugar and fermentation industry, soaps, detergents and cosmetics, dyes and paints, pharmaceutical industry, and terms related with pollution prevention and management
CO2	List types of polymers, soaps, detergents, cosmetics, dyes, paints And pharmaceuticals.
CO3	Recall information about soaps, detergents, fermentation process, dyes paints, drugs and pollution.
CO4	Explain properties of drugs, polymers, soaps, detergents, dyes, paints and sugars.
CO5	Determine quality of manufactured products in sugar and fermentation industry
CO6	Classify commercial polymers, soaps, detergents, cosmetics, dyes, paints, pigments and drugs.

CO7	Analyze different types of manufacturing process of sugar industry, fermentation process and pollution prevention and waste management.
CO8	Select what types of cosmetic products, drugs are important for human health
T.Y.B.Sc. Chemistry	
Course CH 336C Chemistry (Paper-VI) Biochemistry Semester: - III	
The student who successfully completes this course students will be able to:	
CO1	The student needs to understand of Cell types, Difference between a bacterial cell., Plant cell and animal cell. Biological composition and organisation of cell membrane as per Singer and Nicholson model, structure and function of various cell organelles of plant and animal cell. Concepts of biomolecules, Bonds that link monomeric units to form macromolecules.
CO2	The student needs to know the types of carbohydrates and their biochemical significance in living organisms, structure of carbohydrates and reactions of carbohydrates with Glucose as example. Properties of carbohydrates.
CO3	The student needs to know the types of lipids with examples, structure of lipids, properties of lipids.
CO4	The student needs to know the structure and types of amino acids. Reactions of amino acids. Properties of amino acids. Peptide bond formation. Types of proteins. Structural hierarchy in proteins. Features of denaturation of proteins
CO5	The student needs to know the classes of enzymes with subclasses and examples. Enzyme specificity, Equations of enzyme kinetics Km and its significance, features of various types of enzyme inhibitions
CO6	The student needs to know the principle, working procedure and applications of various techniques used in biochemical studies.
CO7	The student needs to know the types of vitamins , their source, biochemical significance and deficiency disorders. Coenzyme forms of Vitamin B complex and their metabolic significance
CO8	Basic concepts of Endocrinology. Types of Endocrine glands and their hormones. Biochemical nature of hormones. Role of Second messengers in hormone action.
T.Y.B.Sc. Chemistry	
Course CH 346C Chemistry (Paper-VI) Biochemistry Semester: - III	
The student who successfully completes this course students will be able to:	
CO1	The student needs to know the significance of metabolism and energetics. Role of ATP and types of other high energy compounds. Individual reactions of the metabolic pathways, various enzymes and coenzymes, energetic and features of the pathway.
CO2	The student needs to know the concepts of biological oxidation. Types of electron carriers and their location in mitochondria. Formation of proton gradient, Proton motive force and Oxidative phosporylation, formation of ATP in the oxysomes. Inhibitors and Uncouplers of Mitochondrial etc.
CO3	Understanding the structures of purines, pyrimidine, nucleosides and nucleotides, structural features of nucleic acid types and their role. Central dogma of molecular biology. Experimental procedures that prove DNA as genetic material and its

	interpretations.
CO4	The student needs to know the experiment that showed the salient features of semi conservative DNA replication, stepwise events involved in replication of DNA
CO5	The student needs to know stepwise events of transcription of RNA and list of inhibitors of transcription.
CO6	The student needs to know the stepwise events of translation of proteins and its significance. List of inhibitors of translation. Features of regulation of gene expression with lac operon studies.
CO7	The student needs to know the overview of the steps involved in insulin gene cloning, and applications of genetic engineering in various fields like agriculture, industries and medicine.
T.Y.B.Sc. Chemistry	
Course CH-347 Practical Paper-I, Physical Chemistry Practical	
The student who successfully completes this course students will be able to:	
CO1	Maintaining records of chemical and instrumental analysis.
CO2	Laboratory skills for the purpose of collecting, interpreting, analysing, practical data
CO3	Laboratory skills for the purpose handling different analytical instruments.
CO4	Interpretation of results of experiment and their correlation with theory
CO5	Study of reaction kinetics practically
CO6	Study of conduct metric, potentiometric, colorimeter and pH metric principles.
CO7	Application of conduct metric, potentiometric, colorimetric and pH metric measurement in quantitative analysis.
CO8	Viscosity measurement and its application
T.Y.B.Sc. Chemistry	
Course CH-348 Practical Paper-II, Inorganic Chemistry Practical	
The student who successfully completes this course students will be able to:	
CO1	Maintaining records of quantitative and qualitative analysis
CO2	Laboratory skills for the purpose of collecting, interpreting, analyzing, and reporting (in written form) chemical data.
CO3	Laboratory skills for the purpose handling different equipment's and analytical Instruments.
CO4	Identify methods and instruments that can be used qualitative and quantitative analysis.
T.Y.B.Sc. Chemistry	
Course CH-349 Practical Paper-III, Organic Chemistry Practical	
The student who successfully completes this course students will be able to:	
CO1	Laboratory skills for the purpose handling different equipment's and Analytical instruments.
CO2	Study of organic reactions their applications
CO3	Separation of mixture of organic compound and their identification by chemical methods

CO4	Perform organic synthesis and follow the progress of the reaction by using TLC technique.
CO5	Maintaining records of quantitative and qualitative analysis
CO6	Understand the Laws of Magnetostatics.

M.Sc Sem-I (Master of Science) in Organic Chemistry

Programme Specific Outcomes.	
PSO1	Understanding the principles and rules used in Chemical Science
PSO2	Advanced physical, inorganic and organic chemistry
PSO3	Become a skillful and research oriented chemist.
PSO4	Build up the knowledge of multidisciplinary subject i.e. Chemistry biology interface
PSO5	Knowledge of advanced instruments used in research and development
PSO6	Knowledge of natural products and synthesis of carbohydrates
PSO7	Innovations and creativity.

Course : CHP-110 Physical Chemistry	
CO1	Realize the terms ionic strength, activity coefficient, DHO equation.
CO2	Learn two and three dimensional box, mechanics of the particle
CO3	Learn Parent- daughter relationship, applications of radioactivity..
CO4	Understand the adsorption of gases by solid type of isotherm
CO5	Know the statistical thermodynamics and various partition functions
CO6	Recognized the Fricke and Cerric sulphate Dosimeter
CO7	Study the steady state approximation michaelis- menten mechanis

Course : CHI-130- Inorganic chemistry	
CO1	Student should visualize/ imagine molecules in 3 dimensions..
CO2	To understand the concept of symmetry and able to pass various symmetry elements through the molecule.
CO3	Understand the concept and point group and apply it to molecules
CO4	To understand product of symmetry operations.
CO5	To apply the concept of point group for determining optical activity and dipole moment
CO6	Student should understand the importance of Orthogonality Theorem
CO7	They should able to learn the rules for constructing character table.
CO8	Using reduction formulae should be able to find out the possible type of hybridization
CO9	Student should know the concept of SALC.
CO10	Student able to find out character for reducible representation.
CO11	To know about projection operator.

CO12	Apply projection operator to find out the normalized wave function for atomic orbital

Course CHO-150- Basic Organic chemistry	
CO1	To understand some fundamental aspects of organic chemistry, to learn the concept aromaticity, to understand the various types of aromaticity
CO2	To study heterocyclic compound containing one and two hetero atoms with their structure, synthesis and reactions.
CO3	To know stereochemistry of organic compounds; able to do interconversion of Fischer to Newmann, Newmann to Sawhorse and vice versa, Able to assign R and S to given molecules; understand stereoselective and stereospecific reactions; acquire knowledge on topicity
CO4	To study structure, formation, stability and related name reaction of intermediates like Carbocation, Carbanion, Free Radical, Carbenes and nitrenes; Recognize neighboring group participation.
CO5	To study rearrangement reaction with specific mechanism and migratory aptitude of different groups.
CO6	To study Ylides and their reaction.
CO7	To understands the basis of redox reaction; acquire knowledge about the reagents which causes selective.

Course: CHO-190- General Chemistry.	
CO1	Students will be able to explore new areas of research in both chemistry and allied fields of science and technology
CO2	Students will be able to function as a member of an interdisciplinary problem solving team..
CO3	To impart the students thorough idea in the chemistry of carbohydrates, amino acids, proteins and nucleic acids etc.
CO4	Be able to describe the chemical basis for replication, transcription, translation and how each of these central processes can be expanded to include new chemical.
CO5	Develop skills to critically read the literature and effectively communicate research in a peer setting matter

Course : CHP-107- Basic Practical Chemistry.	
CO1	At the end of the course the students will know and recall the fundamental principles of organic chemistry that include research and development.
CO2	Determination of an order of a reaction
CO3	Application of Colorimetry and spectrophotometry

CO4	Green Chemistry principles and application in organic transformations.
CO5	Application of few efficient catalyst in the organic reaction

Course: CHG-190 Inorganic chemistry, Material analysis ,synthesis &application.	
CO1	Students are trained to different purification techniques in organic chemistry like recrystallization, distillation, steam distillation and extraction.
CO2	Students are made aware of safety techniques and handling of chemicals.
CO3	Students will be able to explore new areas of research in both chemistry and allied fields of science and technology.
CO4	To impart the students thorough idea in the chemistry of carbohydrates, amino acids, proteins and nucleic acids etc..
CO5	Develop skills to critically read the literature and effectively communicate research in a peer setting.

M.Sc- Sem II (Master of Science) in Organic Chemistry

Course : CHP-210 Physical Chemistry	
CO1	Know the qualitative properties of solution, the depression in freezing point, elevation in boiling point and osmotic pressure.
CO2	Can define radioactive decay processes and nuclear radiation
CO3	Knows the principles of radiation hygiene and the interaction of radiation and matter..
CO4	Can update himself/herself on current methods in radiochemistry.
CO5	Learn the molecular spectroscopy, Raman spectroscopy, IR spectroscopy, electronic spectroscopy, Mossbauer spectroscopy and its applications.

Course : CHI-230- Inorganic chemistry	
CO1	Importance of bioinorganic chemistry..
CO2	Role of metals in Metalloprotein and metalloenzymes
CO3	Similarities in coordination theory for metal complexes and metal ions complexed with biological ligands..
CO4	Importance and transport of metal ions.
CO5	Passive transport metal ions by ionophores and gramicidin.
CO6	Mechanism for active transport of $Na^+$and K^+
CO7	Nerve impulse generation in rod cell of retina.
CO8	Importance and function of Ca, Fe and Mg in metalloprotein
CO9	Student should able to find out the no of microstates and meaningful term symbols, Construction of microstate table for various configuration
CO10	Student should know the concept of weak and strong ligand field.

CO11	Student should know basic d-d transition, d-p mixing, charge transfer spectra
CO12	Hund's rules for arranging the terms according to energy

Course : CHO 250 -Photo**chemistry & Pericyclic Reaction.**	
CO1	Students will be able to understand the MOT and will be able to extend this in predicting reaction mechanism and stereochemistry of electrocyclic reactions.
CO2	The concepts in free radical reactions, mechanism and the stereo chemical outcomes
CO3	Students should able to write MO diagram for various olefinic compounds and should able to predict the products, the stereochemistry as well as should able to understand the preferred reaction pathways
CO4	Student should able to calculate λmax value of organic compounds containing more than one and less than four conjugated systems. Students should able to correlate IR bands with functional groups using numerical data as well as spectral data.
CO5	The basic principle of spectroscopic methods and their applications in structure elucidation of organic compounds using given spectroscopic data or spectra

Course : CHG 290- General Chemistry	
CO1	Students will be able to explore new areas of research in both chemistry and allied fields of science and technology.
CO2	Students will be able to function as a member of an interdisciplinary problem solving team.
CO3	To impart the students thorough idea in the chemistry of carbohydrates, amino acids, proteins and nucleic acids etc.
CO4	Be able to describe the chemical basis for replication, transcription, translation and how each of these central processes can be expanded to include new chemical matter.
CO5	Develop skills to critically read the literature and effectively communicate research in a peer setting.
CO6	Describe the importance of chemical biology research and interdisciplinary work.

M.Sc.-Sem-III (Master of Science) in Organic Chemistry

C**ourse: CHO-350 Organic Reaction Mechanism and Biogenesis**	
CO1	Students will be able to Explain the Reaction Mechanisms.
CO2	Free radical generation , stability and their application
CO3	Cleavage of C-Heteoatom and formation of free radicals.
CO4	Linear Free Energy Relationships with Hammet equation, deviation and effects of substituents on the ring.

CO5	Insight of alkaloids, Terpenoids and The Shikimate pathway
CO6	Alkaloids isolated from the Roots of Piper nigrum.

Course: CHO-351 Structure Determination of Organic Compounds by Spectroscopic Methods.	
After successfully completing this course, students will be able to:	
CO1	Explain basic principles of NMR spectroscopy techniques.
CO2	Interpret ^{1}H and ^{13}C NMR spectrum.
CO3	Explain NOE, APT, DEPT and INEPT techniques
CO4	Explain COSY,TOCSY, 2D-INADEQUATE, 2D- ADEQUATE, NOESY, ROESY , HSQC, HMQC and HMBC techniques.
CO5	Explain basic principles of Mass Spectrometry spectroscopy.
CO6	Ionization methods like EI, CI, ES, MALDI and FAB-Fragmentation.
CO7	Isotopic Abundance in structure establishment and Analysis of Biomolecules.
CO8	Structure elucidation using UV,IR,NMR and Mass Spectrometry techniques.

Course: CHO-352 Stereochemistry and Asymmetric Synthesis of Organic Compounds.	
CO1	After successfully completing this course, students will be able to: Explain the Stereochemistry of polysubstituted cyclohexane, six membered rings with SP2 carbon, heterocycles with N and O.
CO2	Stereochemical principles involved in reactions of six membered rings and other than six membered rings.
CO3	Decide whether the object chiral or achiral and Locate asymmetric carbon in molecule
CO4	Calculate the optical purity of a enantiomeric excess.
CO5	Be able to know the understand stereochemistry of mono ,di ,tri substituted cyclohexane .
CO6	Resolution and analysis of stereomers - formation of racemization and methods of resolution.

Course: CHO353 B Protection-Deprotection Chiron Approach and Carohydrate Chemistry	
CO1	After successfully completing this course, students will be able to explain: Concepts of Protection -De-protection and Chiron Approach.
CO2	Use of various Protection -De-protection Reagant in Organic synthesis,
CO3	Use of various Chiral Auxillareis for stereoseletive synthesis

CO4	The students should uderstand the chemistry of carbohydrates, amino acids, proteins and nucleic acids etc
CO5	Synthesis of the various Glycosides, Mono and Polysaccharides.
CO6	Resolution and analysis of stereomers of the Carohydrates.

Course: CHO-354 Practical-I Solvent Free Organic Synthesis.	
CO1	After successfully completing this course, students will be able to: Explain Solvent Free Carbon–Carbon Bond Formation.
CO2	Solvent-Free C–N Bond Formation.
CO3	Solvent-Free C–S Bond Formation
CO4	Solvent-Free C–X Bond Formation
CO5	Solvent-Free N–N Bond Formation.

M.Sc. Sem IV (Master of Science) in Organic Chemistry

Course: CHO-450 Chemistry of Natural Products.	
CO1	After successfully completing this course, students will be able to learn: Understanding and planning of total synthesis while maintaining the stereochemistry
CO2	Explain total Synthesis Hirsutellone.
CO3	Explain total Synthesis Ribisins

Course: CHO 451 Organometallic Reagents in Organic Synthesis	
CO1	After successfully completing this course, students will be able to: Explain use of transition metal complexes in organic synthesis
CO2	Explain C=C formation reactions.
CO3	Illustration of Ring formation reactions
CO4	Explain concept of Metathesis.
CO5	Explain the use of Boron and Silicon reagents in organic synthesis
CO6	Illustrate techniques of fish harvesting, preservation & processing
CO7	Compare the techniques used in fishery development
Course: CHO 452(A) : Medicinal Chemistry.	
CO1	After successfully completing this course, students will be able to: Explain Proteins as biological catalyst Nucleic acids
CO2	Explain Principle of drug design, Chemistry of diseases and Drug development
CO3	Explain Peptides, sequencing and applications in therapeutics
CO4	Explain Design of Oxamniquine.
CO5	Explain Pharmacokinetics and Pharmacodynamics
CO6	Explain Structure and activity Relationship: QSAR And application

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Course: CHO-453 : Practical-III Section-I: Ternary Mixture Separation Section-II: Carbohydrates Synthesis and Isolation Natural Products	
CO1	After successfully completing this course, students will be able to: Understand and employ concept of type determination and separation.
CO2	Perform qualitative estimation of functional groups.
CO3	Recrystallize /distill the separated compounds.
CO4	Carbohydrate Synthesis.
CO5	Isolation of pigments from the natural products
CO6	Isolation of essential oils from the natural products
CO7	Isolation of medicinally important component from the natural products

Course: CHO 454: Practical II : Convergent and Divergent Organic Syntheses.	
CO1	After successfully completing this course, students will be able to: Learn convergent Synthesis involving acylation, reduction.
CO2	Divergent Synthesis involving acylation, nitration, One pot synthesis
CO3	Resolution technique
CO4	Sulfonation reaction
CO5	Three Stage Syntheses

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2) Department of Physics

F.Y.B.Sc Paper- I Semester – I	
Physics Paper – I (PHY-111) Mechanics and Properties of Matter	
On successful completion of this course students will be able to do the following	
CO1	Demonstrate an understanding of Newton's laws and applying them in calculations of the motion of simple systems
CO2	Use the free body diagrams to analyses the forces on the object.
CO3	Understand the concepts of energy, work, power, the concepts ofconservation of energy and be able to perform calculations using them.
CO4	Understand the concepts of elasticity and be able to perform calculations using them
CO5	Understand the concepts of surface tension and viscosity and be able toperform calculations using them.
CO6	Use of Bernoulli's theorem in real life problems.
CO7	Demonstrate quantitative problem solving skills in all the topics covered.
F.Y.B.Sc Paper- I Semester – II	
Physics Paper – I (PHY-121) Heat and Thermodynamics	
After successfully completing this course, the student will be able to do the following:	
CO1	Describe the properties of and relationships between the thermodynamic properties of a pure substance
CO2	Describe the ideal gas equation and its limitations
CO3	Describe the real gas equation
CO4	Apply the laws of thermodynamics to formulate the relations necessary toanalyze a thermodynamic process
CO5	Analyses the heat engines and calculate thermal efficiency
CO6	Analyze the refrigerators, heat pumps and calculate coefficient of performance.
CO7	Understand property 'entropy' and derive some thermo dynamical relationsusing entropy concept.
CO8	Understand the types of thermometers and their usage.
F.Y.B.Sc Paper- II Semester – I	
Physics Paper – II (PHY-112) Physics Principles and Applications	
On successful completion of this course students will be able to do the following:	
CO1	To understand the general structure of atom, spectrum of hydrogen atom.
CO2	To understand the atomic excitation and LASER principles.
CO3	To understand the bonding mechanism and its different types.
CO4	To demonstrate an understanding of electromagnetic waves and its spectrum.
CO5	Understand the types and sources of electromagnetic waves and applications.
CO6	To demonstrate quantitative problem solving skills in all the topics covered

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F.Y.B.Sc Paper- II Semester – II	
Physics Paper – II (PHY-122) Electricity and Magnetism	
On successful completion of this course students will be able to do the following:	
CO1	To understand the concept of the electric force, electric field and electric potential for stationary charges
CO2	Able to calculate electrostatic field and potential of charge distributions using Coulomb's law and Gauss's law
CO3	To understand the dielectric phenomenon and effect of electric field on dielectric
CO4	To Study magnetic field for steady currents using Biot-Savart's and Ampere's Circuital laws
CO5	To study magnetic materials and its properties.
CO6	Demonstrate quantitative problem solving skills in all the topics covered.

S.Y.B.Sc Paper- I Semester – III	
Course Physics Paper – I (PHY-231) Mathematical Methods in Physics-I	
After the completion of this course students will be able to	
CO1	Understand the complex algebra useful in physics courses.
CO2	Understand the concept of partial differentiation.
CO3	Understand the role of partial differential equations in physics.
CO4	Understand vector algebra useful in mathematics and physics.
CO5	Understand the concept of singular points of differential equations
S.Y.B.Sc Paper- I Semester – IV	
Course Physics Paper – I (PHY-241) Oscillations, Waves, and Sound	
On completion of this course, the learner will b	
CO1	To study underlying principles of oscillations and it's scope in development.
CO2	To understand and solve the equations / graphical representations of motion for simple harmonic, damped, forced oscillators and waves.
CO3	To explain oscillations in terms of energy exchange with various practical applications
CO4	To solve numerical problems related to un damped, damped, forced oscillations and superposition of oscillations
CO5	To study characteristics of sound, decibel scales and applications.
S.Y.B.Sc Paper- II Semester – III	
Course Physics Paper – II (PHY-232) Electronics	
On successful completion of this course the students will be able to	
CO1	Apply different theorems and laws to electrical circuits.
CO2	Understand the relations in electricity.
CO3	Understand the parameters, characteristics and working of transistors.
CO4	Understand the functions of operational amplifiers
CO5	Design circuits using transistors and applications of operational amplifiers

CO6	Understand the Boolean algebra and logic circuits
S.Y.B.Sc Paper- II Semester – IV	
Course Physics Paper – II (PHY-242) Optics	
On successful completion of this course the students will be able to	
CO1	Acquire the basic concept of wave optics.
CO2	Describe how light can constructively and destructively interfere.
CO3	Explain why a light beam spread out after passing through an aperture
CO4	Summarize the polarization characteristics of electromagnetic wave
CO5	Understand the operation of many modern optical devices that utilize wave optics
CO6	Understand optical phenomenon such polarization, diffraction and interference in terms of the wave model
CO7	Analyze simple example of interference and diffraction

3) Department of Botany

Programme Outcomes: B. Sc. Botany Department of Botany After successful completion of three year degree program in Botany a student is able to; Programme Outcomes

PO1	Students know about different types of lower & higher plants their evolution in from algae to angiosperm &also their economic and ecological importance.
PO2	Cell biology gives knowledge about cell organelles & their functions
PO3	Molecular biology gives knowledge about chemical properties of nucleic acid and their role in living systems.
PO4	Genetics provides knowledge about laws of inheritance, various genetic interactions, chromosomal abrasions & multiple alleles.
PO5	Structural changes in chromosomes.
PO6	Student can describe morphological & reproductive characters of plant and also identified different plant families and classification.
PO7	They knows economic importance of various plant products & artificial methods of plant propagation
PO8	Use modern Botanical techniques and decent equipment's.
PO9	To inculcates the scientific temperament in the students and outside the scientific community.
PSO1	Students acquire fundamental Botanical knowledge through theory and practical's.
PSO2	To explain basis plant of life, reproduction and their survival in nature.
PSO3	.Helped to understand role of living and fossil plants in our life.
PSO4	Understand good laboratory practices and safety.
PSO5	To create awareness about cultivation, conservation and sustainable utilization of biodiversity.
PSO6	To know advance techniques in plant sciences like tissue culture, Phytoremediation, plant disease management, formulation of new herbal drugs etc.

PSO7	Students able to start nursery, mushroom cultivation, bio fertilizer production, fruit preservation and horticultural practices.

Course Outcomes B. Sc. Botany Semester-III	
BO. 331 CRYPTOGAMIC BOTANY.	
Course Outcomes After completion of these courses students should be able to;	
CO1	Study of cryptogams to understand their Diversity.
CO2	Know the systematics, morphology and structure of algae, fungi, bryophytes, and Pteredophytes.
CO3	Know life cycle pattern of cryptogams.
CO4	Know economic importance of cryptogams.
CO5	Know evolution of algae, fungi, bryophytes and Pteredophytes.
BO.332 CELL & MOLECULAR BIOLOGY	
Course Outcomes After completion of these courses students should be able to;	
CO1	Gain knowledge about cell and its function.
CO2	Learn the scope and importance of molecular biology.
CO3	Understand ultra-structure of cell wall, plasma membrane and cell organelles
CO4	Understand the biochemistry of cell.
CO5	.Understand the biochemical nature of nucleic acid and their role in living systems.
BO. 333 GENETICS AND EVOLUTION	
Course Outcomes After completion of these courses students should be able to;	
CO1	Understand the Mendelian and neo Mendelian genetics.
CO2	Know about interaction of genes, multiple alleles and linkage and crossing over.
CO3	Know about sex linked inheritance, chromosomal aberrations.
CO4	Know the evolutionary sequence of various groups of plants.

BO.334 SPERMATOPHYTIC AND PALAEOBOTANY	
Course Outcomes After completion of these courses students should be able to	
CO1	. Systematic study of gymnosperms and angiosperms.
CO2	Understand the morphological and reproductive character of spermatophyte plants.
CO3	Understand economic importance of gymnosperms and angiosperms.
CO4	Understand the diversity among spermatophyte.
CO5	To brings investigation of palaeobotanical study in India.
CO6	.Know, scope and application of Palaeobotany.
BO.335 HORTICULTURE & FLORICULTURE	
Course Outcomes After completion of these courses students should be able to	
CO1	Understand economic importance of plant and plant product.

CO2	Know the methods of plant propagation.
CO3	Understand the fruit & vegetables production technology.
CO4	Understand the scope & importance of floriculture.
CO5	Understand the methods of cultivation of different flowering plants.
B0.336 COMPUTATIONAL BOTANY	
Course Outcomes After completion of these courses students should be able to	
CO1	Understand the scope & importance of biostatistics.
CO2	Understand the scope and some basic commonly used terms like sampling, data, dispersion, population, central tendency etc.
CO3	.Knowledge to apply statistical analysis to biological data for testing different hypothesis.

Course Outcomes B. Sc. Botany Semester-IV

BO. 341 PLANT PHYSIOLOGY & BIOCHEMISTRY	
Course Outcomes After completion of these courses students should be able to	
CO1	Know scope and importance of plant physiology.
CO2	Understand plant & water relation.
CO3	Understand process of photosynthesis, C3, C4, CAM pathways.
CO4	Understand the process of respiration, growth and developmental process in plant.
CO5	Understand the biochemistry of cell.
CO6	Understand the different biochemical reaction of biomolecules in plant cell.
BO. 342 PLANT ECOLOGY AND BIODIVERSITY	
Course Outcomes After completion of these courses students should be able to	
CO1	Know the biotic and abiotic components of ecosystem.
CO2	Food chain & food web in ecosystem.
CO3	Understand diversity among various groups of plant kingdom.
CO4	Understand plant community & ecological adaptation in plants.
CO5	Scope, importance and management of biodiversity.
BO. 343 PLANT PATHOLOGY.	
Course Outcomes After completion of these courses students should be able to	
CO1	Understand scope and importance of plant pathology.
CO2	Know disease cycle and disease development.
CO3	Know the effect of plant diseases on economy of crops.
CO4	Know the methods of studying plant diseases.
CO5	They can identify the plant diseases like bacterial, nematodal, and fungal.
CO6	.Know the disease forecasting.
CO7	.Know the prevention and control measures of plant diseases.
BO. 344 MEDICAL AND ECONOMIC BOTANY	
Course Outcomes After completion of these courses students should be able to	
CO1	Understand scope and importance of Pharmacognosy.
CO2	Know the cultivation, collection, processing & importance of various herbal drugs.
CO3	Understand the scope of economic botany.

CO4	Know the botanical resources like non wood forest products.
CO5	Understand the concept of Ayurvedic pharmacy
BO. 345 PLANT BIOTECHNOLOGY	
Course Outcomes After completion of these courses students should be able to	
CO1	Understand the fundamental of recombinant DNA technology.
CO2	Understand tissue culture techniques.
CO3	Role of microbes in agriculture, medicine & industry.
CO4	Know the fermentation technology.
CO5	Understand the concept of bioinformatics, genomics & proteomics.
CO6	Understand technical germplasm & cryopreservation

BO. 346 PLANT BREEDING & SEED TECHNOLOGY	
Course Outcomes After completion of these courses students should be able to	
CO1	Understand the scope & importance of plant breeding.
CO2	Know the technique of production of new superior crop varieties.
CO3	Know the about heterosis, hybrid vigor etc.
CO4	Know the process of hybrid variety, development & their release.
CO5	Know about seed germination, processing, production etc.
BO. 347 **PRACTICAL-I**	
Course Outcomes After completion of these courses students should be able to	
Co1	Study of Vegetative and Reproductive structure of Algae, Fungi, Bryophytes and Pteridophytes
Co2	Study techniques of cytology, Mitosis, Meiosis, Chromosome morphology
Co3	Estimation of DNA and RNA
Co4	Estimate Chlorophyll, TLC, Proteins and Amino acids
Co5	Study of advanced biotechnological techniques
BO. 348 **PRACTICAL-II**	
Course Outcomes After completion of these courses students should be able to	
Co1	Study plant families
Co2	Study structural heterozygotes, Gene mapping,
Co3	Study of Vegetative and Reproductive structure of gymnosperms and Pleobotany
BO. 349 **PRACTICAL-III**	
Course Outcomes After completion of these courses students should be able to	
Co1	Study techniques in Horticulture and floriculture like cutting, Layering, Budding, Grafting
Co2	Calculating Mean mode median, methods of graphical presentations
Co3	Study different plant diseases like fungal, bacterial, microbial etc.
Co4	Study medicinal plants and methods of preparation of extracts and quantitative analysis of alkaloids, tannins etc.

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4)Department of Zoology

F. Y. B.Sc. Zoology Semester I	
ZO -111: Animal diversity I	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	To understand the Animal diversity around us.
CO2	To understand the underlying principles of classification of animals.
CO3	To understand the terminology needed in classification.
CO4	To understand the differences and similarities in the various aspects of classification.
CO5	To classifies in vertebrates and to be able to understand the possible group of the invertebrate observed in nature.

F. Y. B.Sc. Zoology Semester I	
ZO - 112: Animal Ecology	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	The learners will be able to identify and critically evaluate their own beliefs, values and actions in relation to professional and societal standards of ethics and its impact on ecosystem and biosphere due to the dynamics in population.
CO2	To understand anticipate, analyse and evaluate natural resource issues and act on a lifestyle that conserves nature.
CO3	The Learner understands and appreciates the diversity of ecosystems and applies beyond the syllabus to understand the local lifestyle and problems of the community.
CO4	The learner will be able to link the intricacies of food chains, food webs and link it with human life for its betterment and for non-exploitation of the biotic and abiotic components.
CO5	The working in nature to save environment will help development of leadership skills to promote betterment of environment.
F. Y. B.Sc. Zoology Semester I	
ZO - 113: Practical Zoology -I	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	Recognize the live forms of vertebrates and invertebrates
CO2	Analyse and describe zoological concepts, including morphology and anatomy.
CO3	Explain conservation and sustainable use of animals;
CO4	Explain and demonstrate the impact that animals have on human society.
F. Y. B.Sc. Zoology Semester II	
ZO -111: Animal diversity II	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	To understand the Animal diversity around us
CO2	To understand the underlying principles of classification of animals.
CO3	To understand the terminology needed in classification.

CO4	To understand the differences and similarities in the various aspects of classification.
CO5	To classifies in vertebrates and to be able to understand the possible group of the invertebrate observed in nature.
F. Y. B.Sc. Zoology Semester II	
ZO - 122: Cell Biology	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	The learner will understand the importance of cell as a structural and functional unit of life.
CO2	The learner understands and compares between the prokaryotic and eukaryotic system and extrapolates the life to the aspect of development
CO3	The dynamism of bio membranes indicates the dynamism of life. Its working mechanism and precision are responsible for our performance in life.
CO4	The cellular mechanisms and its functioning depend on endo-membranes and structures
F. Y. B.Sc. Zoology Semester II	
ZO - 123: Practical Zoology – II	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	Recgnize the live forms of vertebrates and invertebrates.
CO2	Analyse and describe zoological concepts, including morphology and anatomy.
CO3	Explain conservation and sustainable use of animals;
CO4	Explain and demonstrate the impact that animals have on human society
S. Y. B.Sc. Zoology Semester III	
ZO - 231: Animal Systematic and Diversity – III	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	Knowledge of classification of Non-chordates and chordates along with studies on various physiological functions and interactions of non-chordate organisms with type specimens
CO2	Knowledge of classification of chordates along with studies on various physiological functions and comparative anatomy of organs of chordate with example.
S. Y. B.Sc. Zoology Semester III	
ZO - 232: Applied Zoology - I	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	Understands processes of sericulture, along with crop pest management techniques.
CO2	Students gain knowledge about various disease related vectors and their impact on human.
S. Y. B.Sc. Zoology Semester III	
ZO - 233: Practical course Paper – III – Practical	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	First-hand knowledge about identification of non-chordate and chordate specimens (fresh and preserved) along with larval forms and study of endoskeleton of vertebrates

CO2	Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology.
CO3	Analyse the relationships among animals, plants and microbes
S. Y. B.Sc. Zoology Semester - IV	
ZO 241: Animal Systematic and Diversity – IV	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	. Knowledge of classification of Chordates along with studies on various physiological functions and interactions of chordate organisms with different types of specimens.
CO2	Knowledge of classification of chordates along with studies on various physiological functions and comparative anatomy of organs of chordate with example
S. Y. B.Sc. Zoology Semester – IV	
ZO 242: Applied Zoology II	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	. Understands processes of fisheries and management techniques.
CO2	Students gain knowledge about various disease related vectors and their impact on human
CO3	Understands concepts of apiculture and management techniques.
S. Y. B.Sc. Zoology Semester – IV	
ZO 243: Practical course Paper – III – Practical	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	. First-hand knowledge about identification of non-chordate and chordate specimens (fresh and preserved) along with larval forms and study of endoskeleton of vertebrates
CO2	. Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology.
CO3	Analyse the relationships among animals, plants and microbes

Program Outcomes: B. Sc. Zoology	
PO1	Aware students about knowledge and skill in the fundamentals and systematic of animal kingdom.
PO2	Gain knowledge of anatomical structure and various metabolic functions of organisms.
PO3	Understand various physiological processes at molecular level of animals from different phyla.
PO4	Information and skill of advanced biological techniques for experimental purpose.
PO5	Awareness about environment and its conservation processes, pollution control and its importance and.
PO6	Gain knowledge of protection of vulnerable and endangered species.
PO7	Information and skill of applied zoology including sericulture, apiculture, fisheries, poultry, sericulture, agricultural pests and their control etc.
PO8	Understand about various concepts of genetics and its importance in social

	wellbeing.
PO9	Aware students about ethical principles and commit to professional ethics and responsibilities.
PO10	Apply the knowledge and understanding of Zoology to one's own and sociallife.
PO11	Gain knowledge of communicable and non-communicable diseases to improve personal and public health.
PSO1	Acquire knowledge on the various aspects of life sciences, cell biology, genetics, taxonomy, physiology, applied zoology, general embryology and public health.
PSO2	Understand good laboratory practices and safety, Carry out experimental techniques and methods of Physiology, Cell biology, pathology, Genetics, Applied Zoology, Biological techniques, Toxicology, Entomology, Sericulture, Biochemistry, microtomy.
PSO3	Understand the applications of biological sciences in Biotechnology, Apiculture, Poultry, Fisheries, Aquaculture, Agriculture and Sericulture.
PSO4	The students gained the knowledge to use modern sophisticated equipments and tools.
PSO5	Recognize the scientific facts behind natural phenomena.

T. Y. B.Sc. Zoology Semester-V	
ZO 351 - Pest Management	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	Define pest management
CO2	Describe the economic, ecological, and sociological benefits of IPM.
CO3	Distinguish positive and negative impacts of pesticide use.
CO4	Understand problems resulting from misuse, overuse, and abuse of chemical pesticides.
CO5	Define and describe pesticide resistance and how it develops.
CO6	Identify ecological and biological characteristics important in development of pest populations
CO7	. Identify 10 tactics commonly used in IPM and be able to distinguish them.
CO8	Understand society's role in IPM decisions.
CO9	Describe different groups of pests and compare them to weeds and plant pathogens.
CO10	Analyse and compare management tactics to determine the best approach to reducing pest populations, weeds and disease presence.
CO11	Locate appropriate, scientifically valid sources of information on specific tactics to manage insect pests, weeds, and diseases.

CO12	Know and how to develop an IPM program.

T. Y. B.Sc. Zoology Semester-V	
ZO 352 - Histology	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	The students will be able to understand, classify and identify the different types of tissue.
CO2	The students will understand the complexity of various tissues in an organ.
CO3	The students will be able to learn structure & functions of various tissues.
CO4	The students will understand the various diseases related to organs.
CO5	The student will be able to know the role of glands in mammals
T. Y. B.Sc. Zoology Semester-V	
ZO 353 - Biological Chemistry	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	. Learners shall be able to understand basic concepts and significance of biochemistry
CO2	The students will learn about the pH and Buffers
CO3	The students will learn about the chemical structures of carbohydrate, and their biological and clinical significance
CO4	The students will be able to understand, interpret structure and importance of proteins, carbohydrates and lipids
CO5	Learners will be able to comprehend variations in enzyme activity and kinetics.
T. Y. B.Sc. Zoology Semester-V	
ZO 354 – Genetics	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	Described the genetic variation through linkage and crossing over, gene frequency, chromosomal aberrations and sex determination
CO2	Understood the theories of classical genetics and blood group inheritance in man
CO3	Explain the concept of mutation. 1) Comprehensive, detailed understanding of the chemical basis of heredity 2) Understanding the role of genetic mechanisms in evolution.
T. Y. B.Sc. Zoology Semester-V	
ZO 355 - Developmental Biology	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	Have mastered the foundational knowledge that defines the fields of cell and developmental biology
CO2	Be able to write clearly and effectively about cell and developmental biology at the graduate level as well as in layperson terms.
CO3	Be able to explain cell and developmental biology orally to professional scientists, students of the discipline, and to a lay audience.

CO4	Be prepared to teach foundational cell and developmental biology at the college level.
T. Y. B.Sc. Zoology Semester-V	
ZO 356 - Parasitology	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	The students will be able to learn about basics and scope of parasitology
CO2	The students will be able to learn the types of host and parasite with examples.
CO3	The students will be able to learn about the morphology, life cycle, pathogenicity and treatment of common parasites (Protists and Platyhelminthes).
CO4	The students will be able to learn about host -parasite relationships and their effects on host body.
CO5	The students will be able to learn about the arthropod parasites and their role as vector.

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Program Outcome /Course Outcome

(2020-21)

T. Y. B.Sc. Zoology Semester-V	
ZO 3510: Aquarium Management	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	Understand the roles of zoos and aquariums in research education and conservation.
CO2	The students will able to understand the poultry breeding techniques.
CO3	Understand the legislative framework that zoos and aquariums work within
T. Y. B.Sc. Zoology Semester-V	
ZO 357 Practical Paper I	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	Identify the organs by studying the histological slides.
CO2	Identify hormonal disorders using pictures.
CO3	Use techniques like chromatography, spectrophotometry in biological experiments
CO4	Explain the anatomical features of brain, heart, kidney and skin of vertebrates.
CO5	Demonstrate the structure of tissues by making temporary slides.
CO6	Identify & study the plant protection appliances, pests, diseases and damage causes.
CO7	: Implementation & applications of IPM.
CO8	Separation of the pesticides or plant products by TLC and Column chromatography.
T. Y. B.Sc. Zoology Semester-V	
ZO 358 Practical Paper II	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	Demonstrate the effect of physical and chemical factors on enzyme activit
CO2	Measure the pH of given samples
CO3	Detect given carbohydrates using biochemical tests.
CO4	Prepare acid and base solutions and titrate them.
CO5	Isolate Carbohydrates (Starch), Protein from milk.
CO6	Illustrate the application of Hardy –Weinberg law.
CO7	Illustrate the application of Mendelian Laws.
CO8	Study and identify Genetic Traits, Human Karyotypes & Syndromes, Chromosomal Aberrations.
CO9	Illustrate & learned Human Blood Group System.
T. Y. B.Sc. Zoology Semester-V	
ZO 359 Practical Paper III	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	List the household Pest and social insect
CO2	Explain the pathogenicity and morphology of few ectoparasites.
CO3	Explain the diseases spread by vectors
CO4	Explain the interrelationship of insects and human with examples
CO5	Explain the effects of household insects on human health

CO6	Demonstrate rectal parasites in cockroach
CO7	Identify the life cycle stages of few parasites
CO8	Identify and explain the types of eggs, blastulae and gastrulae
CO9	Identify the Stage of chick embryo.
CO10	Identify the phases of cell division.
CO11	Prepare temporary slide of chick embryo to identify the stage and age
T. Y. B.Sc. Zoology Semester – V	
ZO 361 - Medical & Forensic Zoology	
Course Outcomes After successfully completing this course, students will be able to:	
CO1	The students will be able to understand the basics principles of Medical and Forensic Zoology.
CO2	The students will able to understand scientific methods in crime detection.
CO3	The students will be able to understand the advancements in the field of Medical and Forensic Zoology.
CO4	The students will be able to understand modern tools, techniques and skills in forensic
T. Y. B.Sc. Zoology Semester-V	
ZO 362 - Animal Physiology	
Upon successful completion of this course, the students will be able to describe, identify, and/or explain	
CO1	The various physiological organ-systems and their importance to the integrative functions of the human body.
CO2	Understand Concept of energy requirements
CO3	Various aspects of Digestive physiology.
CO4	Circulatory system with medical conditions
CO5	Understand Respiratory mechanism and gases transport.
CO6	Eliminations of waste materials from the body.
CO7	Develop understanding in Structure and functions of muscles
CO8	Understand formation of gametes and function of endocrine
T. Y. B.Sc. Zoology Semester-V	
ZO 363 - Molecular Biology	
CO1	Learner shall get an insight into molecular mechanisms of various biological processes in cells and organisms.
CO2	Learner shall get an insight into the Structure of DNA and RNA, DNA and RNA as genetic material.
CO3	The course shall prepare learner to get insight into the Central Dogma of Molecular Biology.
T. Y. B.Sc. Zoology Semester-V	
ZO 364 - Entomology	
CO1	Understand basic concepts in Entomology and its scop
CO2	To provide comprehensive overview of Concept of Evolution.
CO3	Learn morphology and anatomy of Insects.
CO4	Understand the concept of social organization in Insects.

CO5	Understand the development process of Insects.
CO6	Identify disease causing insect vectors.
CO7	Will be able to design and implement pest controlling methods against pests.
T. Y. B.Sc. Zoology Semester-V	
ZO 365 - Techniques in Biology	
CO1	Understand the concept of HPLC.
CO2	Identified the different types of microscope, viz., compound microscope, dissecting microscope, electron microscope.
T. Y. B.Sc. Zoology Semester-V	
ZO 366 - Evolutionary Biology	
After completing the course, the student should be able to,	
CO1	Students will be able to learn most of the essential aspects of Evolutionary Biology in Detail which will help them in acquiring better understanding regarding the subject.
CO2	Explain important processes, principles and concepts and critically evaluate theories and Empirical research within evolutionary biology
CO3	Apply evolutionary theory and concepts to address empirical and theoretical questions in evolutionary biology.
CO4	Independently investigate evolutionary questions using literature and analyses of empirical data.
CO5	Communicate the principles, theories, problems and research results associated with questions that lie within the evolutionary framework to student.
T. Y. B.Sc. Zoology Semester-V	
ZO 3610 - Environmental Impact Assessment	
On successful completion of the course students will be able to	
CO1	To critically examine assumptions inherent in impact assessment.
CO2	To develop skills in identifying and solving problems.
CO3	To provide students with an understanding of the historical evolution of impact assessment in selected parts of the world.
CO4	To provide students with the knowledge and professional skills necessary to enable them to undertake environmental impact assessment
CO5	To examine a range of environmental impact assessments
CO6	To identify and explore impact assessment fields and approaches
CO7	To familiarise students with a variety of professional tools used in predicting environmental impacts
CO8	To enable students to develop skills in critical thinking and professional procedures through

	various forms of oral and written presentation and individual and group work.
CO9	To encourage students to develop their own perspectives on impact assessment and to be able to relate this to other subject areas and to their wider understanding.
T. Y. B.Sc. Zoology Semester-V	
ZO 3611 – Project	
After successfully completing this course, students will be able to:	
CO1	Explain the importance of material and methods used in research
CO2	Illustrate the research work.
CO3	Write effective scientific and technical communication based on the project
CO4	Design experimentation to prove the hypothesis
CO5	Represent interpretations of research data within scientific and technical communities.
T. Y. B.Sc. Zoology Semester-	
ZO 367 Practical Paper I	
After successfully completing this course, students will be able to:	
CO1	Estimation of serum urea, serum uric acid serum Calcium.
CO2	To examine human hair for cortex and medulla.
CO3	To examine and determine the hair morphology
CO4	Identify and differentiate various types of Finger prints
CO5	Count total leucocytes from blood samples.
CO6	Estimate blood glucose level, BT and CT.
CO7	Detection & Illustration of human blood group.
CO8	Estimate haemoglobin & haemin crystals.
CO9	Qualitative detection of nitrogenous waste products (Ammonia, urea, uric acid) in given sample
T. Y. B.Sc. Zoology Semester-V	
ZO 368 Practical Paper II	
After successfully completing this course, students will be able to:	
CO1	Aware about the Lab safety techniques & sterilization
CO2	Learn the Prparation of DNA paper model and study its characteristics.
CO3	Estimation of DNA by Diphenylamine method & RNA by Bial's Orcinol method &
CO4	Illustrate Principle & application of Spectrophotometer & PCR
CO5	To understand the scope of Entomology and general characters of Insects.
CO6	To study the morphology and anatomy of Insects.
CO7	To learn the concept of social organization in Insects.

CO8	To understand metamorphosis in Insects.
CO9	To study the economically important insects and Pest management of harmful insects.
T. Y. B.Sc. Zoology Semester-V	
ZO 369 Practical Paper III	
After successfully completing this course, students will be able to:	
CO1	Illustrates the Compound and Stereo microscope: Components, usage and maintenance; Principle & working of PCR & DNA Barcoding.
CO2	Illustrates the Tissue collection, fixation & Block preparation.
CO3	Illustrates & Skill Based Learning Sectioning, staining & mounting. Submission of any three permanent slides from three different organs.
CO4	Identify the fossil types/ adaptations in animals.
CO5	Explain the stages of human evolution.
CO6	Explain the evidences of evolution.

Department of Math

On successful completion of B.Sc Course (Mathematics), the students are able to	
PSO1	Explain the core ideas and the techniques of mathematics at the college level.
PSO2	Recognize the power of abstraction and generalization, and to carry out investigative mathematical work with independent judgment.
PSO3	Setup mathematical models of real world problems and obtain solutions in structured andanalytical approaches with independent judgement.
PSO4	Carry out objective analysis and prediction of quantitative information with independent judgment.
PSO5	Communicate effectively about mathematics to both lay and expert audiences utilizing appropriate information and communication technology.
PSO6	Work independently, and to collaborate effectively in team work and team building.
PSO7	Conduct self-evaluation, and continuously enrich themselves through lifelong learning.
PSO8	Communicate to lay audiences and arouse their interest in the beauty and precision of mathematical arguments and science.
PSO9	Recognize the importance of compliance with the ethics of science and being a responsible citizen towards their community and a sustainable environment.
PSO10	Cultivate a mathematical attitude and nurture the interests

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Program Outcome /Course Outcome

(2020-21)

F.Y.B.Sc Maths Sem-1 & Sem-2 Math-1 MT-111 Algebra	
On successful completion of the course	
After successfully completing this course, students will be able to:	
CO1	Students are able to understand sets, relation and function.
CO2	Division & Euclidean Algorithm
CO3	Fermat's Theorem
CO4	Complex numbers
F.Y.B.Sc Maths Sem-1 & Sem-2 MT-121 Analytical Geometry	
On successful completion of the course	
After successfully completing this course, students will be able to:	
CO1	Analytical geometry of two & three dimensions
CO2	Lines in three dimensions
CO3	Sphere
F.Y.B.Sc Maths Sem-1 & Sem-2 Math-2 MT-112 Calculus-1 & MT-122 Calculus-2	
On successful completion of the course	
After successfully completing this course, students will be able to:	
CO1	Real numbers
CO2	Sequences
CO3	Series
CO4	Limit & Continuity
CO5	Differenciation
CO6	Ordinary differential equation
CO7	Exact differential equation
F.Y.B.Sc Maths Sem-1 & Sem-2 Math-3 MT-113 & MT-123 Practical Course	
On successful completion of the course	
After successfully completing this course, students will be able to:	
CO1	On successful completion of the course students are able to understand the theory course problem using maxima software
S.Y.B.Sc Maths Sem-3 & Sem-4Math-1 MT-231 Calculus of several variables	
On successful completion of the course students are able to understand	
CO1	Limit & continuity of several variables.
CO2	Partial derivatives & differentiability
CO3	Extreme values
CO4	Double & Triple Integral
S.Y.B.Sc Maths Sem-3 & Sem-4 MT-241 Linear Algebra	
CO1	Matrices and system of linear equations
CO2	Vector spaces

CO3	Linear transformations
CO4	Linear isomorphism

S.Y.B.Sc Maths Sem-3 & Sem-4 Math-2 MT-232(B) Graph Theory	
CO1	Graph
CO2	Path & circuit
CO3	Trees & fundamental circuit
CO4	Cut sets & cut vertices
CO5	Connectivity & severability
S.Y.B.Sc Maths Sem-3 & Sem-4 MT-242(A) Vector calculus	
CO1	Vector valued functions
CO2	Integrals
CO3	Surface integrals
CO4	Applications of integrals
S.Y.B.Sc Maths Sem-3 & Sem-4Math-3 MT-233 & MT-243 Practical Course	
On successful completion of the course students are able to understand	
CO1	On maxima software problems on theory courses will be solved by students

Mula Education Society's

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Program Outcome /Course Outcome

(2020-21)

(B)Faculty of Commerce

Bachelor of Commerce B.Com	
After successfully Completing B.Com programme, students will able to	
PO1	In depth knowledge, understanding and skills in commerce.
PO2	Build a strong foundation of knowledge in different areas of Commerce.
PO3	Develop the skill of applying concepts and techniques used in Commerce for real life problems.
PO4	Inculcate reading, writing, speaking skills and Business correspondence.
PO5	Creates awareness among society about Law and Legislations related to commerce and business.
PO6	Use effectively recent Trends in Business, Organizations and Industries.
PO7	Communicate effectively about Economic Environment of Country as well as World
PO8	Use effectively practical skills in real life related to banking and corporate world.
PO9	Provides a platform for overall development and develop knowledge level and awareness about Recent Trends of World
PO10	Use new technologies effectively to communicate ideas in the area of commerce.
PO11	Critically evaluate new research findings, ideas, methodologies and theoretical frame work in specialized study.
PO12	Work collaboratively and productively in groups.
PSO1	Students will be able to apply basic skills learnt in commerce necessary for analysis of various problems in accounting, marketing, business economics, management and finance.
PSO2	Students will be able to apply basic skills learnt in commerce necessary for analysis of various problems in accounting, marketing, business economics, management and finance.
PSO3	Students will be able to apply basic skills learnt in commerce necessary for analysis of various problems in accounting, marketing, business economics, management and finance.
PSO4	Students will able to evaluate national and international issue and discussion on economic, commercial and business related topics.

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Program Outcome /Course Outcome

(2020-21)

F.Y.B.COM	
Banking and Finance[Fundamentals of Banking]	
After successfully completing this course, student will be able to -	
CO1	To acquaint the students with the fundamentals of banking
CO2	To develop the capability of students for knowing banking concepts and operations.
CO3	To make the students aware of banking business and practices.
CO4	To give thorough knowledge of banking operations.
CO5	To enlighten the students regarding the new concepts introduced in the banking system
F.Y.B.COM	
Course1123: Financial Accounting	
After successfully completing this course, student will be able to -	
CO1	Classify liabilities under piecemeal distribution of cash and student also able to practically solve problems.
CO2	Discuss disposal of assets and liabilities not taken over by new firm in amalgamation process with example.
CO3	Explain Accounting Procedure in the books of the firm under Conversion of Partnership Firm into Ltd. Co. and solve the problems
CO4	Demonstrate how to create a company, grouping, generation, Accounting Report with the help of Accounting Software Package.
CO5	Explain the Accounting Standard applicable in India
CO6	Explain suffered recoupment and lapse of short-working with examples.
CO7	Distinguish between Hire Purchase System and Instalment System and solve problems thereon.
CO8	Demonstrate allocation of expenses on basis of Apportionment in Departmental Accounts.

Mula Education Society's

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Course Outcomes

(2020-21)

S.Y.B.COM	
Course 2113: Business Communication- outcomes	
After successfully completing this course, student will be able to -	
CO1	Discuss the Meaning, Definition, Features, Principles, Importance, Process of Communication, Barriers to Communication & its Remedies.
CO2	Identify the different methods and channels of communication
CO3	Classify the various soft-skills and its elements such as Grooming Manners and Etiquettes, Effective Speaking, Interview Skills, Listening, Group Discussion and Oral Presentation
CO4	Describe the concept of business letter, its Meaning, Importance, Qualities or Essentials, Physical Appearance, and Layout of Business Letter.
CO5	Develop the writing skill of business letters on various situations in business like Enquiry letter, order letter, sales letter etc.
CO6	Discuss the Types & Drafting of Job Application Letters
CO7	Study the internal office correspondence like OfficeMemo, Office Orders, Office Circulars, and Press Releases.
CO8	Explain the application of new technology in business communication like WhatsApp, Twitter, Facebook, LinkedIn, YouTube, Cellular Phone and Video Conferencing.
S.Y.B.COM	
Course 2143: Business Management	
After successfully completing this course, student will be able to –	
CO1	Discuss the Meaning, Definition, Features, Principles, Importance, challenges before management and Brief Review of Management Thoughts of FW Taylor & Henry Fayol.
CO2	Discuss Meaning, Definition, Nature, Importance, Forms, Types, Steps, and limitations of Planning and Decision Making.
CO3	Describe Meaning, Process & Principles, Departmentalization of Organization and Organization Structure, Staffing and Recruitment
CO4	Discuss Meaning, Elements, Principles, Techniques & importance of Direction and communication and Process & Barriers of Communication
CO5	Explain the different theories of motivation such as Maslow's Need Hierarchy Theory, Herzberg's Two Factors Theory, Douglas Mc Gregor's Theory.
CO6	Study the leadership style for effective management and political leadership such as Mahatma Gandhi, Dr. Babasaheb Ambedkar & Pandit Jawaharlal Nehru.
CO7	Discuss the concept Need, Techniques, difficulties, steps and techniques of coordination and control
CO8	Apply the recent trends in business management like Business Ethics, Corporate Social Responsibility, Corporate Governance, Disaster Management, Management of Change.
S.Y.B.COM	
Marketing Management – I	
After successfully completing this course, student will be able to –	

CO1	To orient the students recent trends in marketing management
CO2	To create awareness about marketing of eco friendly products in the society through students
CO3	To inculcate knowledge of various aspects of marketing management through practical approach
CO4	To acquaint the students with the use of E-Commerce in competitive environment
CO5	To help the students understand the influences of marketing management on consumer behavior
S.Y.B.COM	
Banking & Finance –I	
After successfully completing this course, student will be able to –	
CO1	To create the awareness among the students of Indian banking system.
CO2	To enables students to understand the reforms and other developments in the Indian Banking
CO3	To provide students insight into the functions and role of Reserve Bank of India
T.Y.B.Com.	
Course 3113: Business Regulatory Framework (Mercantile Law)	
After studying this course student will be able to:	
CO1	Define the terms Contract, Offer, Acceptance, Consideration, Consent, Free Consent, and Discharged of Contract. Explain legal rules as to valid offer, acceptance, consideration, consent, free consent, discharged of contract.
CO2	Define the terms Partnership, LLP, Designated partner. Explain the rights & duties of partners under Partnership Act, 1932. Describe incorporation of LLP, liabilities of LLP & partners, their relations, Financial Disclosure, Conversion, Winding up and Dissolution of LLP.
CO3	Define the terms Sell, Agreement to Sell, Conditions &Warranties, Unpaid seller. Describe implied conditions and warranties, explain the rights of unpaid seller, and explain legal provision regarding transfer by non-owners.
CO4	Explain e-Contracts, Digital Signature, describe formation, recognition of E-Contracts. Discuss the functions of Digital Signature and Digital Certificate.
CO5	Define the terms Consumer, Complaint, Services, unfair trade practices, restrictive trade practices. Explain consumer protection councils, redressal agencies, describe the procedure to file complaint and resolve the complaint, relief available to customers
CO6	Discuss the objectives, organs, programs, activities of WIPO. Define the terms Patent, Copyright, Trademarks, Design, Geographical Indication, Trade secrets and Traditional Knowledge.
CO7	Define the terms Negotiable Instruments, Promissory Note, Bill of Exchange, Cheque, Explain the essentials of N.I. Discuss Holder, Holder in due course, privileges of Holder in due course, kinds of endorsement.
CO8	Explain Arbitration, essentials of arbitration agreement. Describe rights and duties of

	arbitrator. Define and explain Conciliation.
T.Y.B.COM	
Course 3123: Advanced Accounting	
After studying this course student will be able to:	
CO1	Impart the knowledge of Indian accounting standards and IFRS like AS- 3, AS-7, AS-12, AS-15, and AS-17 to AS-25.
CO2	Discuss Banking Company, Legal Provisions, Non - Performing Assets (NPA), Reserve Fund, Acceptance, Endorsements & Other Obligations and Preparation of Final Accounts in vertical form as per Banking Regulation Act 1949.
CO3	Calculate amount of insurance claims using various methods like Claim for Loss of Stock, claim for Loss of Profit and Claim for Loss of Fixed Assets.
CO4	Explain co-operative society and prepare financial reports as per Maharashtra State Co-operative Societies Act.
CO5	Describe indirect tax like VAT & VAT Report, Service Tax, Central Value Added Tax and Income Tax - Tax Deducted at Source (TDS) and calculate tax liability using computer.
CO6	Discuss the methods of maintaining accounts of different types of branches and Goods supplied at Cost & Invoice Price.
CO7	Ascertain profit or loss by using various methods in single entry system like Preparation of Cash Book, Total Debtor Account, Total Creditor Account, and Final Accounts
CO8	Analysis and evaluate the financial performance using various ratios like Gross Profit Ratio, Net Profit Ratio, Operating Ratio, Stock Turnover Ratio, Debtor Turnover Ratio, Current Ratio, Liquid Ratio, Debt to Equity Ratio
T.Y.B.COM	
Banking Law and Practices in India. Banking & Finance-IIICourse Code -: 306 – b.	
After studying this course student will be able to:	
CO1	Acquaint the students with Banking Law and Practice in relation to the Banking system in India
CO2	Understand the legal aspects of Banking transactions and its implications as Banker and Customer.
CO3	Make the Students aware of the Banking Law and Practice in India.
T.Y.B.COM	
Course 3153: Auditing & Taxation	
After studying this course student will be able to:	
CO1	Discuss the various concepts of audit like Types of errors and frauds, Various Classes of Audit, Audit programme, Audit Note Book, Working Papers, Internal Control-Internal Check-Internal Audit 9 | D e p a r t m e n t o f C o m m e r c e
CO2	Explain verification and valuation of assets and liabilities and Auditing and Assurance Standards like AAS- 1,2,3,4,5,28,29.

CO3	Recognize Company Auditor like his Qualification, Disqualifications, Appointment, Removal, Rights, Duties and liabilities.
CO4	Explain tax audit with computerized system and Scope of Auditor's Role under Income Tax Act.
CO5	Define various concepts under Income Tax act1961likeIncome,Person,Assesse,Assessment year, Pervious year, Agricultural Income, Exempted Income, Residential Status of an Assessee, PAN, TAN.
CO6	Calculate Taxable Income under Head of Income like Income from Salary, Income from House Property, Profits and Gains of Business and Professions, Capital Gains and Income from other sources.
CO7	Calculate total taxable Income and tax liability of an individual under chapter VIA ie deductions u/s-80C to 80 U
CO8	Explain procedure of individual income tax filing and Income Tax Return Filing and Structure, Functions and powers of various Income Tax Authorities.
T.Y.B.COM	
Marketing –II	
After studying this course student will be able to:	
CO1	To understand the concept and functioning of marketing planning and sales management
CO2	To know marketing strategies and organization
CO3	To inform various facets of marketing with regulatory aspects
CO4	To understand marketing in globalize scenario
CO8	Illustrate role of working capital in the business organization.

M. Com	
After successfully Completing B.Com programme, students will able to	
PO1	Aware the internal and external effects in developing business strategy.
PO2	Express an understanding of the tools and techniques necessary for research in Business.
PO3	Trained the students' well-acquainted regarding current financial structure
PO4	Versatile the nature of HRM and the study of linkage between labour and management.
PO5	Inculcated students to acquire sound knowledge, concept and structure of capital market and financial services.
PO6	Develop competence with their usage in managerial decision making and control.
PO7	Identify the role of production and operation functions in business.
PO8	Illustrate the implications of various financial ratios in decision making.

PO9	Correlate the manufacturing technology and its role in developing business.
PO10	Criticize the business ethics and professional values in running business.
PO11	Gain ability to solve problems relating to Company Accounts, Valuations and Special types of situations.
PO12	Equip with the advanced knowledge of techniques and methods of planning and executing the management audit.
PSO1	Students will be able to apply basic skills learnt in commerce necessary for analysis of various problems in management accounting, strategic management and Production & Operation Management.
PSO2	Students will demonstrate progressive affective domain development of values, the role of advanced accounting in society and business.
PSO3	Students will able to demonstrate quantitative and qualitative knowledge in key areas of Industrial Economics and Human resource management.
PSO4	Students will able to evaluate national and international issue and discussion on income tax, business tax and corporate related topics.

M.Com II-IV	
M.Com I-I	
Management Accounting	
After studying this course student will be able to:	
CO1	Explain the concepts of Management Accounting in organizational business environment.
CO2	Demonstrate various tools of financial statements of organizational financial performance.
CO3	Illustrate methods of financial statement analysis of an organization
CO4	Assess different types of ratios of organizational financial performance
CO5	Estimate the cash flow of liquidity capacity of firm.
CO6	Assess minimum working capital required for running organization.
CO7	Describe concept and types of responsibility centre accounting for management
M.Com I-I	
Strategic Management	
After studying this course student will be able to:	
CO1	Describe different approaches of strategic decision making in corporate environment.
CO2	Describe various strategies of business and factors affecting on it
CO3	Analyse techniques of organizational strengths, weakness, opportunities and threats (SWOT).
CO4	Analyse effectiveness and its utilization in corporate strategic planning.
CO5	Illustrate the different alternatives of corporate strategies.

CO6	Develop allocation of resources for defining corporate strategy of business
CO7	Describe the different functional strategies for organizational effectiveness.
CO8	Evaluating the Strategic Performance with actual performance.
M.Com I-I	
Production and Operation Management	
After studying this course student will be able to:	
CO1	Describe recent trends in production and service system.
CO2	Describe different plant layout of production and operation management.
CO3	Discuss process of product design of production function.
CO4	Discuss process of product design of production function.
CO5	Illustrate techniques and tools of product development.
CO6	Identify production planning in production management.
CO7	Describe different concept of product control.
CO8	Illustrate role of Total Quality Management in production and operation management
CO9	Summarize concepts of Quality circle, TQM, & GMP as a Quality management.
M.Com I-I	
Financial Management	
After studying this course student will be able to:	
CO1	Identify financial system in India & recent changes.
CO2	Illustrate role of RBI & SEBI in Indian financial system
CO3	Illustrate capital budgeting methods of investment decisions.
CO4	Interpret financial statement & its utility of business firm.
CO5	Describe limitations of financial statements in financial analysis.
CO6	Explain concept of working capital management.
CO7	Identify concept of inventory management & receivable management
M.Com I-II	
Financial Analysis and Control	
After studying this course student will be able to:	
CO1	Describe concepts of capital budgeting.
CO2	Compute different tools and techniques to identify capital budgeting.
CO3	Explain Tabulated measurement of cost of capital.
CO4	Interpret expression view of marginal costing.
CO5	Evaluate practical problems on marginal costing which correlates to BEP and P/V analysis.
CO6	Illustrate short run managerial decision analysis.
CO7	Distinguish concept of budget and budgetary control.
CO8	Comparative study of different variance analysis.

Mula Education Society's

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Course Outcomes

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M.Com I-II	
Industrial Economics	
After studying this course student will be able to:	
CO1	Explain concepts of industrial economics.
CO2	Describe relationship between industrial and economic development.
CO3	Classify factors influencing industrial location
CO4	Explain major factors affecting industrial efficiency.
CO5	Compare private and public industrial profile and their problems.
CO6	Describe structure of Indian industries.
CO7	Explain role of Micro, Small and Medium Enterprises.
CO8	Summarize concept of industrial imbalance.
M.Com I-II	
Business Ethics and Professional Values	
After studying this course student will be able to:	
CO1	Identify concept of business ethics, profession and values
CO2	Define factors affecting on social ethics.
CO3	Describe Indian Ethical Practices in marketing, advertising and Employment.
CO4	Illustrate unethical practices in Gender discrimination and accounting disclosures
CO5	Describe concept of corporate governance in business.
CO6	Summarize concept of Corporate Social Responsibility in business ethics.
CO7	Illustrate Indian approaches to business ethics.
CO8	Examine new values in Indian industries after economic reform 1991.
M.Com I-II	
Elements of Knowledge Management	
After studying this course student will be able to:	
CO1	Demonstrate concepts of knowledge management.
CO2	Describe evolution of knowledge management.
CO3	Summarize drives of organizational learning.
CO4	Illustrate organizational learning frame work
CO5	Illustrate knowledge management tools.
CO6	Describe cultural change management.
CO7	Examine organizational culture for organization development
CO8	Criticize measuring organizational cultural and climate Norms.
M.Com I-III	
Human Resource Management	

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Course Outcomes

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After studying this course student will be able to:	
CO1	Describe concept, approaches, and functions of HRM in Indian business context.
CO2	Identify concept of HR environment in organisation.
CO3	Illustrate different methods of recruitment of organization.
CO4	Interpret training process in business organisation.
CO5	Classify methods of performance appraisal.
M.Com I-III	
Organizational Behavior	
After studying this course student will be able to:	
CO1	Define concepts of organizational behaviour.
CO2	Illustrate role of information technology in an organization
CO3	Identify concept of Horizontal network and virtual design of organization.
CO4	Describe Attributes of personality & dimensions of attitude.
CO5	Classify theories of motivation
CO6	Define concept of emotional intelligence in the workplace.
CO7	Differentiate various types concept of stress, conflict and groups.
CO8	Classify different types of teams & team building.
M.Com I-III	
Research Methodology for Business	
After studying this course student will be able to:	
CO1	Define concepts of Research in business.
CO2	Interpret different steps in business research process.
CO3	Rewrite formulation of research problem in writing of research report.
CO4	Illustrate various sample and sampling methods in business research.
CO5	Distinguish primary and secondary methods of data collection for research.
CO6	Describe various techniques of data processing in research.
CO7	Explain writing skill for research project report in business.
CO8	Describe various ways of citation & bibliography for writing of report in business.
M.Com I-III	
Business Finance	
After studying this course student will be able to:	
CO1	Define concepts of business finance in Indian Financial System.
CO2	Identify categories of business finance.
CO3	Illustrate role of strategic financial planning in business finance.
CO4	Distinguish comparison between over Capitalization & under capitalization

CO5	Discuss companies Act 2013.
CO6	Classify sources of long term finance.
CO7	Define concept of short term finance.
Capital Market and Financial Services	
After studying this course student will be able to:	
CO1	Define capital market instruments.
CO2	Differentiate forward, future and option contracts.
CO3	Explain stock market in detail.
CO4	Illustrate functions of primary and secondary market in financial market.
CO5	Classify different types of mutual funds.
CO6	Describe concept of portfolio management and credit rating.
CO7	Illustrate role of SEBI in financial intermediaries.
CO8	Demonstrate recent trends in Securities and Exchange Board of Ind
M.Com II-IV	
Industrial Economic Environment	
After studying this course student will be able to:	
CO1	Define concept of industrial finance.
CO2	Explain new industrial policy 1991.
CO3	Demonstrate effects of new industrial policy on industry.
CO4	Illustrate industrial development & environmental problems.
CO5	Explain different issues in information technology.
CO6	Describe present position of IT industries in India.
CO7	Interpret concept of industrial relations.
CO8	Assess causes of industrial disputes.
M.Com II-IV	
Recent Advances in Business Administration	
After studying this course student will be able to:	
CO1	Define concepts of change management.
CO2	Describe dimensions and approaches of change management.
CO3	Demonstrate concept of Total quality management
CO4	Define six sigma techniques in quality management.
CO5	Describe Global management system and its significance.
CO6	Illustrate role of merger and acquisition in corporate organization.

CO7	Interpret techniques of turnaround management strategies.
CO8	Analyse key steps in innovation management.
M.Com II-IV	
Project Work	
After studying this course student will be able to:	
CO1	Describe concepts of Research in business.
CO2	Prepare synopsis for project report.
CO3	Construct formulation of research problem.
CO4	Modify sample and sampling methods.
CO5	Classify primary and secondary methods of data collection.
CO6	Describe analysis and interpretation of data.
CO7	Rewrite report in different areas.
CO8	Summarize modes of citation & bibliography.

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Course Outcomes

(2020-21)

Faculty of Arts

F. Y. B. A-	
Optional English (General Paper-1)	
After studying this course student will be able to:	
CO1	To expose students to the basics of literature and language and develop an integrated view about language and literature in them
CO2	To acquaint them with minor forms of literature in English and help them to appreciate the creative use of language in literature
CO3	To introduce them to the basics of phonology of English so that they can pronounce better and speak English correctly.
CO4	To prepare students to go for detailed study and understanding of Literature and language
CO5	To enhance the job potential of students by improving their language skills
F. Y. B. Com	
Compulsory English	
After studying this course student will be able to:	
CO1	To offer relevant and practically helpful pieces of prose and poetry to students so that they not only get to know the beauty and communicative power of English but also its practical application
CO2	To expose students to a variety of topics that dominate the contemporary socioeconomic and cultural life
CO3	To develop oral and written communication skills of the students so that their employability enhances d) To develop overall linguistic competence and communicative skills of students.
F.Y.B.A	
INDIAN ECONOMIC ENVIROMENT)	
On completion of the course students will be able to:	
CO1	Develop ideas of the basic characteristics of Indian economy; its potential on natural resources.
CO2	Understand the importance, causes and impact of population of growth and its distribution, translate and related them with economic development.
CO3	Grasp the importance, of planning undertaken by the government of India, have knowledge on the various objectives, failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government
CO4	Understand agriculture as the foundation of economic growth and development, analyses the progress and changing nature of agricultural sector and its contribution to the economy as a

	whole.
CO5	not only be aware of the economy as a whole, they would understand the basic features of mizoram's economy, sources of revenue, and how the state government finance its programmes and projects.

B.A. Economics	
Program Specific Outcomes	
The principal aims of objective of the BA Economics programme are To provide students a well-founded education in Economics	
PSO1	To provide structured curricular which support the academic development of students
PSO2	To provide and adapt curricular that prepare our graduated for employment and further study as economists.
PSO3	To provide students with the opportunity to pursue courses that emphasizes quantitative and theoretical aspects of Economics.
PSO4	To provide students with the opportunity to focus on applied and policy issues in Economics
PSO5	To provide students programmers that allows the students to choose from a wide range of economics specialization.
PSO6	To provide a well –resourced learning environment for Economics.

F.Y.B.COM	
BUSINESS ECONOMICS) (MICRO)	
On completion of the course students will be able to	
CO1	To familiarize the students with the basic concept of micro economics.
CO2	To make student understand the demand and supply analysis in business applications.
CO3	To familiarise student with the production and cost structure under different stages of production.
CO4	Develop ideas of the basic characteristics of Indian Economy, its potential on natural resources.
CO5	Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.
CO6	Demonstrate marginal productivity theory of distribution, theory of wages, identify different types of rent, and illustrate different theories of interest and profits.
CO7	Understand how factor market works, illustrate basic tool in welfare economics and illustrate the concept of social welfare functions and compensation principles.
CO8	Identify the various types of investment function analysis and understand the elements of social cost benefit analysis

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Course Outcomes

(2020-21)

F.Y.B.A.	
Gg- 110 (A) Physical Geography Semester I	
On completion of the course students will be able to	
CO1	To introduce the students to the basic concepts in Physical geography.
CO2	To introduce latest concept in Physical geography
CO3	To acquaint the students with the utility and application of Physical geography in different regions and environment.
CO4	To make the students aware about Earth system (Lithosphere, Atmosphere, Biosphere and Hydrosphere)
F.Y.B.A.	
Gg- 110 (B) Human Geography Semester II	
On completion of the course students will be able to	
CO1	To introduce the students to the basic concepts in Human geography.
CO2	To introduce latest concept in Human geography
SYBA	
Gg-210 Geography of Disaster Management (G2)	
On completion of the course students will be able to	
CO1	To introduce students the concept of disaster & its relation with Geography.
CO2	To acquaint the students with the utility & application of hazards in different areas its management.
CO3	To make the students aware of the need of protection & disaster management.
SYBA	
Gg- 220 : Tourism Geography (S-1)	
On completion of the course students will be able to	
CO1	To acquaint the student's basic concepts of Geography & Tourism
CO2	To aware the students with the utility and application of Tourism
CO3	To help the students & society to understand the interrelationship between tourism and employment generation opportunities.
CO4	To understand the impact of tourism on Physical and Human Environments.
SYBA	
Gg-201 : FUNDAMENTALS OF GEOGRAPHICAL ANALYSIS (G2)	
On completion of the course students will be able to	
CO1	To enable the students to use various Projections and Cartographic Techniques.
CO2	To acquaint the students with basic of Statistical data.
CO3	To acquaint the students with the principles of surveying, its importance and utility in the geographical study.
TYBA	

Geography of Tourism- I CC1E (G3) (SEM- V)	
On completion of the course students will be able to	
CO1	To understand the history of Tourism
CO2	To introduce the students to the basic concepts in Tourism Geography.
CO3	To understand the types of Tourism
CO4	To gain knowledge different aspects of Tourism Geography.
TYBA	
Geography of Tourism- II CC1F (G-3) (SEM – VI)	
On completion of the course students will be able to	
CO1	To understand the history of Tourism
CO2	To introduce the students to the basic concepts in Tourism Geography.
CO3	To understand the types of Tourism
CO4	To gain knowledge different aspects of Tourism Geography.
TYBA	
Geography of Rural Development -I DSE 1 C (S-3) (SEM- V)	
On completion of the course students will be able to	
CO1	To understand the concept, nature and scope of rural development in India.
CO2	To overview various approaches to rural development.
CO3	To discuss some important issues related to rural development.
CO4	To study various schemes and policies for rural health in India.
TYBA	
Geography of Rural Development II DSE 1 D (S-3) (SEM- VI)	
On completion of the course students will be able to	
CO1	To study the problems and policies related to education in rural areas.
CO2	To create awareness among the students about various area development programmes and Target Group Programmes implemented in India.
CO3	To create a positive approach for rural development among the students through the examples of successful case studies.
TYBA	
Practical Geography- I (Techniques of Spatial Analysis) DSE- 2 C (S-4) (SEM-VI)	
On completion of the course students will be able to	
CO1	To introduce the basic concepts and techniques of Geographical Analysis.
CO2	To introduce the students with SOI Toposheets and acquire the Knowledge of Toposheet interpretation
CO3	To introduce the students with Weather Maps and acquire the Knowledge of its interpretation
CO4	To introduce the students with Aerial Photographs and Satellite Images and acquire knowledge to interpret it

CO5	To acquaint students with the spatial and structural characteristics of Practical Geography.
TYBA	
Practical Geography- II (Techniques of Spatial Analysis, Surveying and Excursion /Village/ Project Report) DSE- 2 D (S-4) (SEM-VI)	
On completion of the course students will be able to	
CO1	To introduce the basic concepts and techniques of Geographical Analysis.
CO2	To introduce the students with SOI Toposheets and acquire the Knowledge of Toposheet interpretation.
CO3	To introduce the students with Weather Maps and acquire the Knowledge of its interpretation
CO4	To introduce the students with Aerial Photographs and Satellite Images and acquire knowledge to interpret it .
CO5	To acquaint students with the spatial and structural characteristics of Practical
TYBA	
I SEC 2 C Value/Skill based Course Research Methodology - I CREDIT – 2 (SEM-V)	
On completion of the course students will be able to	
CO1	To develop the understanding of the basic concept of research
CO2	To develop the understanding of the basic framework of sampling and data collection
CO3	To develop the understanding of various sampling methods and techniques
TYBA	
SEC 2 D Value/ Skill based Course Research Methodology – II (SEM - VI)	
On completion of the course students will be able to	
CO1	To identify various sources of information for data collection.
CO2	Understanding of the conducting survey on various issues and develop the Report writing skill of students
F.Y.B.Sc. Semester I	
Gg. 111 Introduction to Physical Geography–I (Geomorphology) P-I	
On completion of the course students will be able to	
CO1	To introduce the students to the basic concepts in Geomorphology.
CO2	To acquaint the students with the utility and applications of Geomorphology in different areas and environment.
CO3	To make the students aware of the need of protection and conservation of different landforms
F.Y.B.Sc. Semester I	
Gg. 112 Introduction to Physical Geography -II (Geography of Atmosphere and Hydrosphere) P-II	
On completion of the course students will be able to	
CO1	To introduce the students to the basic concepts in Atmosphere and Hydrosphere

CO2	To acquaint the students with the utility and applications of Atmosphere and Hydrosphere in different areas and environment.
CO3	To make the students aware of the need of protection and conservation of Atmosphere and Hydrosphere.
F.Y.B.Sc. Semester I	
Gg.113 Practicals in Physical Geography P-III	
On completion of the course students will be able to	
CO1	To Introduce the Students with Maps, Map Scale and its Element.
CO2	To Introduce the Students with various Map Projection.
CO3	To Introduce the Students with various types of Representation of Data.
F.Y.B.Sc. Semester I	
Gg 121 Introduction to Human Geography P-I	
On completion of the course students will be able to	
CO1	This course is to acquaint the students with the nature of man-environment relationship and human capability.
CO2	To adopt and modify the environment under its varied conditions from primitive life style to the modern living;
CO3	To identify and understand environment and population in terms of their quality and spatial distribution pattern.
CO4	To comprehend the contemporary issues facing the global community.
F.Y.B.Sc. Semester I	
Gg. 122 Population and Settlement Geography P-II	
On completion of the course students will be able to	
CO1	To Introduce the Students with Sources of Population Data.
CO2	To Introduce the Students with Population Dynamic.
CO3	To Introduce the Students with Classification and types of Settlement.
F.Y.B.Sc. Semester I	
Practicals in Human Geography P-III	
On completion of the course students will be able to	
CO1	To Introduce the Students with Population Indices
CO2	To Introduce the Students with Methods for calculation Urban data
CO3	To Introduce the Students with Crop Combination Agricultural and Efficiency
S.Y.B.Sc. Semester I	
Gg 211: GEOGRAPHY OF RESOURCES – I	

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On completion of the course students will be able to	
CO1	To acquaint the students to fundamental concepts of resources.
CO2	To acquaint the students to past, present and future utility and potentials of resources at regional, national and global levels.
CO3	To make aware the students about problems of utilization and conservation in the view of sustainable development.
S.Y.B.Sc. Semester I	
Gg 212: Watershed Management – I	
On completion of the course students will be able to	
CO1	To acquaint the students with concepts in Watershed Management.
CO2	To familiarize the students with the importance of Watershed Management
S.Y.B.Sc. Semester II	
Gg 211: GEOGRAPHY OF RESOURCES – II	
On completion of the course students will be able to	
CO1	To acquaint the students to fundamental concepts of resource
CO2	To acquaint the students to past, present and future utility and potentials of resources at regional, national and global levels.
CO3	To make aware the students about problems of utilization and conservation in the view of sustainable development.
S.Y.B.Sc. Semester II	
Gg 212: Watershed Management –II	
On completion of the course students will be able to	
CO1	To acquaint the students with concepts in Watershed Management.
CO2	To familiarize the students with the importance of Watershed Management.
S.Y.B.Sc. Semester II	
Gg 201: Fundamentals of Geographical Analysis (Practical)	
On completion of the course students will be able to	
CO1	To enable the students to use various projections to prepare maps.
CO2	To acquaint the students with the principles of surveying, its importance and Utility in the geographical area.
CO3	To introduce the importance and basic principles of GPS.
B.A. Hindi	
सामान्य हिंदी जी-1	
On completion of the course students will be able to	
CO1	छात्र साहित्य विधाओं से अवगत हुए I
CO2	हिंदी भाषा द्वारा संवाद कौशल में विकसितहुए I
CO3	मौलिक लेखन और विज्ञापन लेखन कौशल में विकसितहुए I

CO4	अनुवादऔर हिंदी कम्प्यूटर की जानकारीसे अवगत हुए I
S.Y.B.A Hindi	
CC-1C (G-2) आधुनिक काव्य] कहानी तथा व्यवाहरिक हिंदी	
On completion of the course students will be able to	
CO1	छात्र काव्य साहित्य से परिचित हुए I
CO2	छात्र कहानी साहित्य से परिचित हुए I
CO3	छात्र कारक साहित्य से परिचित हुए I
CO4	छात्र शब्द युग्म का अर्थ समझकर वाक्य में प्रयोग करते है I
CO5	छात्रों को संक्षेपण लेखन का कार्य करना आता हैI
CO6	छात्रों में सर्जनात्मकता का विकास हुआ है I
CO7	छात्र व्यंग्य पाठ से परिचित हुए I
CO8	छात्र साक्षात्कार कला से परिचित हुए और साक्षात्कार लेना जानते हैं I
CO9	छात्र भाषा का मोबाईल तंत्र का उपयोग करते हैं I
CO10	छात्र पल्लव कला से परिचित हुए I
S.Y.B.A Hindi	
SEC-2A- अनुवाद स्वरूप एवं व्यवहार	
On completion of the course students will be able to	
CO1	छात्र अनुवाद कौशल से परिचित हुए I
CO2	छात्र अनुवाद के स्वरूप को समझाते है I
CO3	छात्र अनुवाद क्षेत्र से परिचित हुए I
CO4	छात्र हिंदी से मत्राठी में प्रत्यक्ष अनुवाद करते है I
CO5	छात्र में अंग्रेजी से हिंदी का कौशल अनुवाद में मराठी,विकास हुआ I
CO6	छात्र माध्यम लेखन से परिचित हुए I
CO7	छात्रों में सृजनात्मक लेखन कौशल विकसित हुआ I
CO8	छात्र माध्यम लेखन से परिचित हुए I
CO9	छात्र श्रव्य –द्रुक माध्यमों की भाषा से परिचित हुए I
S.Y.B.A Hindi	
DSC – 1A (S-1) काव्यशास्त्र (सामान्य)	
On completion of the course students will be able to	
CO1	छात्र भारतीय काव्यशास्त्र से परिचित हुए I
CO2	छात्र काव्य परिभाषा शब्दशक्ति, तत्व, से परिचित हुए I
CO3	छात्र रस के स्वरूप को समझते है I

CO4	छात्रों में भारतीय काव्यशास्त्र में कारक साहित्य से परिचित हुए I
CO5	छात्रों में भारतीय काव्यशास्त्र में रूचि निर्माण होकर आलोचनात्मक दृष्टि पैदाहोती है
CO6	छात्र साहित्यिक भेद को समझते है I
CO7	छात्र पद्य भेद को समझते है I
CO8	छात्र महाकाव्य है समझते को भेद के मुक्तककाव्य और खण्डकाव्य,I
CO9	छात्र नाटक के भेद को समझते है I
CO10	छात्र नाट्य अभिनय में रूचि लेते हैं I
S.Y.B.A Hindi	
DSC – 2 A (S-2) मध्ययुगीन काव्य तथा उपन्यास	
On completion of the course students will be able to	
CO1	छात्र कबीर के साहित्य से परिचित हुए I
CO2	छात्र मीराबाई के साहित्य से परिचित हुए I
CO3	छात्र भारतीय उपन्यास की अवधारणा से परिचित हुए I
CO4	छात्रों में उपन्यास कृति के मूल्यांकन की कला विकसीत हुई I
CO5	छात्रों में साहित्य कृतिओं आत्मविस्तृत को मूल्यों जीवन प्रस्तुत,करने की क्षमता निर्माण हुई I
CO6	छात्र रहीम के साहित्य से परिचित हुए I
CO7	छात्र बिहारी के काव्य अभिव्यंजना से परिचित हुए I
CO8	छात्र हिंदी नाटक और रंगमंच से परिचित हुए I
CO9	छात्रों में अभिनय गुण विकसित हुए I
CO10	छात्र नाटयालोचना से परिचित हुए I
S.Y.B.A Hindi	
MIL– शिक्षण भाषा हिंदी (हिंदी)	
On completion of the course students will be able to	
CO1	छात्रों में हिंदी भाषा श्रवण कौशल विकसित हुआ I
CO2	छात्रों में हिंदी भाषा संवाद कौशल विकसित हुआ I
CO3	छात्रों में हिंदी भाषा वाचन कौशल विकसित हुआ I
CO4	छात्रों में हिंदी भाषा लेखन कौशल विकसित हुआ I
CO5	छात्र हिंदी भाषा विधि तथा भाषा व्यवहार से अवगत हुए I
CO6	छात्रों में हिंदी भाषा की लघुकथा कौशल विकसित हुआ I
CO7	छात्रों में हिंदी भाषा वाक्य भेद से को जानते हैं I
CO8	छात्रों में हिंदी काव्य हुआ विकसित कौशल सृजन गीत -I

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T.Y.B.A Hindi	
सामान्य हिंदी जी-3	
On completion of the course students will be able to	
CO1	छात्रों को हिंदी आत्मकथा दीर्घ, कविता और नाटक के स्वरूप और विकासकापरिचय प्राप्त हुआ I
CO2	छात्र सरकारी कार्यालयीन हिंदी से परिचित हुए I
CO3	पत्रकारिता के विभिन्न पहलुओं से परिचय प्राप्त हुआ I
CO4	अनुवाद कला में विकसित हुए I
T.Y.B.A Hindi	
विशेष हिंदी हिंदी) 3- साहित्य का इतिहास	
On completion of the course students will be able to	
CO1	छात्रों को हिंदी साहित्य के कालविभाजन और नामकरण का परिचय प्राप्तहुआ I
CO2	आदिकाल का साहित्य ,कवि और काव्य प्रवृतियों का परिचय प्राप्त हुआ I
CO3	भक्तिकाल की शाखा,साहित्य,कवि और काव्य प्रवृतियों का परिचय प्राप्त हुआ I
CO4	रीतिकाल के साहित्य ,कवि और काव्य प्रवृतियों का परिचय प्राप्त हुआ I
CO5	आधुनिक काल के गद्य-पद्य साहित्य ,साहित्यकार और काव्य प्रवृतियों कापरिचय प्राप्त हुआ है I
T.Y.B.A Hindi	
विशेष हिंदी-4(काव्यशास्त्र)	
On completion of the course students will be able to	
CO1	छात्रों को साहित्य की परिभाषा,स्वरूप,हेतु और प्रयोजनों का ज्ञान कराना प्राप्तहुआ I
CO2	काव्य के तत्व,भेद और शब्दशक्ति का ज्ञान प्राप्त हुआ I
CO3	अलंकार और छंदों का परिचय प्राप्त हुआ I
CO4	गद्य और पद्यो के भेद तथा तत्वों की जानकारी प्राप्त हुई I
CO5	आलोचना की जानकारी प्राप्त हुई I
M.A. Hindi M.A.-I(semester-I)	
प्राचीनऔर मध्युगीन काव्य	
On completion of the course students will be able to	
CO1	छात्रों को प्राचीन तथा मध्ययुगीन काव्यहुआ प्राप्त परिचय का कृतियों- I
CO2	छात्रों को आदिकाल और भक्तिकाल के साहित्य की प्रवृत्तियों की जानकारी प्राप्त हुई I
CO3	छात्रों में काव्य के प्रति समीक्षात्मक दृष्टि विकसित हुई I
CO4	छात्रप्राचीन तथा मध्ययुग भाषा से अवगत हुए I
CO5	हुए परिचित से परम्परा काव्य की मध्ययुग तथा प्राचीन छात्र. I
M.A. Hindi M.A.-I(semester-I)	

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HP02 -आधुनिक हिंदी कथा साहित्य	
On completion of the course students will be able to	
CO1	.छात्रों को गद्य की प्रमुख विधाओं के स्वरुप का परिचय प्राप्त हुआ I हुई प्राप्त जानकारी की विकासक्रम के विधाओ गद्य को छात्रों.2I की मूल्यांकन के साहित्य गद्य में छात्रों.3क्षमता निर्माण हुई I हुई विकसित क्षमता की समीक्षण और आस्वादन के रचना में छात्रों.4I
M.A. Hindi M.A.-I(semester-I)	
HP 03-भारतीय साहित्याशास्त्र	
On completion of the course students will be able to	
CO1	.छात्रों को भारतीय साहित्यशास्त्र का परिचय प्राप्त हुआ I
CO2	साहित्यशास और साहित्य को छात्रों. के सम्बंधो का ज्ञान प्राप्त हुआ I
CO3	छात्रों में मौलिक चिंतन की क्षमता विकसित हुई I
CO4	छात्रों को साहित्याशास्त्रो के सिधान्तों का ज्ञान प्राप्त हुआ Iहुई प्राप्त दृष्टि समीक्षात्मक में छात्रों.
M.A. Hindi M.A.-I(semester-I)	
HP 04 विशेष साहित्यकार कबीर	
On completion of the course students will be able to	
CO1	हुआ प्राप्त परिचय का कृतित्व और व्यक्तित्व के कबीर को छात्रों
CO2	कबीरकीकाव्यगत शक्ति और सीमाओं से परिचित हुए I
CO3	छात्र कबीर के काव्य की प्रासंगिकता से अवगत हुए I
CO4	छात्रों मै कबीर के समीक्षण की यथोचित दृष्टि का विकास हुआ I
M.A. Hindi M.A.-I (semester-II)	
HP हिंदी मध्ययुगीन 05 काव्य	
On completion of the course students will be able to	
CO1	सूरदास के व्यक्तित्व और कृतित्व का परिचय प्राप्त हुआ I साहितिक के मध्ययुग छात्र हुए अवगत से गतिविधियों
CO2	भूषण छात्र हुई विकसित दृष्टि की समीक्षा के कृतियों में छात्रों
CO3	औरबिहारी की काव्य कृतियों से परिचित हुए I
CO4	छात्र गद्य की प्रमुख विधाओं के तात्विक स्वरूप से परिचित हुए I
CO5	छात्रों को आधुनिक काव्य प्रकारों का परिचय प्राप्त हुआ I क काव्य में छात्रों.7आस्वादन अध्ययन और मुल्यांकणकी यथोचित दृष्टि विकसित हुई

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M.A. Hindi M.A.-I(semester-II)	
HP 06 आधुनिक हिंदी नाटक और निबंध	
On completion of the course students will be able to	
CO1	छात्र गद्य की प्रमुख विधाओं के तात्विक स्वरूप से परिचित हुए I
CO2	छात्रों को गद्य विधाओं के विकास क्रम की जानकारी प्राप्त हुई l
CO3	मे छात्रोंऐतिहासिक विकास के परिप्रेक्षमें रचना विशेष के महत्व को समझकर मूल्यांकन कीक्षमता विकसित हुई l
CO4	छात्र गद्य की नाटक और निबंध विधासे परिचित हुए l
M.A. Hindi M.A.-I(semester-II)	
HP पाश्चात्यसाहित्य07 शास्त्र	
On completion of the course students will be able to	
CO1	छात्रोंको पाश्च्यात्य साहित्य शास्त्र का परिचय प्राप्त हुआ l
CO2	छात्रोंको पाश्च्यात्य साहित्य शास्त्र के विकास क्रम का ज्ञान प्राप्त हुआ l
CO3	छात्रोंको पाश्च्यात्य साहित्य शास्त्र की समीक्षा महत्त्व ज्ञात हुआ l
CO4	छात्रोंकोमें समीक्षात्मक दृष्टिकोण विकसित हुआ l
CO5	छात्रोंकोआलोचना की विभिन्न प्रणालियों का ज्ञान प्राप्त हुआ l
M.A. Hindi M.A.-I(semester-II)	
HP हिंदी08 उपन्यास	
On completion of the course students will be able to	
CO1	.छात्रोंको उपन्यास विधाका तात्विक परिचय प्राप्त हुआ l
CO2	छात्रोंको हिंदीउपन्यासोंमें अभिव्यक्त मानव जीवन का परिचय प्राप्त हुआ l
CO3	छात्र हिंदीउपन्यासकीविभिन्न प्रवृत्तियों से अवगत हुए l
CO4	छात्रोंमें हिंदीउपन्यासोंमें अभिव्यक्त जीवन विषयक मूल्यांकन की क्षमताविकसित हुई l
CO5	छात्रोंमें उपन्यास कीआस्वादन अध्ययन औरमूल्यांकन की क्षमता विकसित हुई l
CO6	छात्रों में साहित्य और युगजीवन का संबंधविषद करने की क्षमता निर्माण हुई l
CO7	छात्रों को आधुनिक युग की सामाजिकसाहि,धार्मिक,राजनितिक,त्यिक परिस्थितियोका ज्ञान प्राप्त हुआ l
M.A. Hindi M.A.-I(semester-II)	
HP 12 अनुवाद विज्ञान	
On completion of the course students will be able to	
CO1	छात्रों को अनुवाद का स्वरूप महत्त्व,परिभाषा, एंव व्याप्ति की जानकारी प्राप्त हुई l
CO2	छात्रों को अनुवाद की प्रक्रिया का परिचय प्राप्त हुआ l
CO3	छात्रों को अनुवाद की समस्याएँ तथा उनके समाधान के संबंध में जानकारी प्राप्त हुई l
CO4	छात्र अनुवादके सामाजिक और संस्कृतिक पक्ष से अवगत हुए l

CO5	छात्रोंमेंअनुवादअनुवाद की क्षमता निर्माण हुई l
M.A. Hindi M.A.II (semester-III)	
आधुनिक काव्य काव्य अन्य तथा छायावादी, आदर्शवादी)	
On completion of the course students will be able to	
CO1	छात्रों को आधुनिक काव्य से अवगत हुए l
CO2	छात्रों को आधुनिक काव्य हुई विकसित दृष्टि की नअध्यय-l
CO3	छात्रों में काव्य मूल्यांकन की दृष्टि विकसित हुई l
CO4	छात्रों में काव्य मूल्यांकन की दृष्टि विकसित हुई l
CO5	छात्रों में काव्य –सर्जन कला का विकास हुआ l
M.A. Hindi M.A.II (semester-III)	
भाषा विज्ञान -	
On completion of the course students will be able to	
CO1	छात्रों को भाषा विज्ञान के स्वरूप का परिचय हुआ l
CO2	छात्रों को भाषा विज्ञान के व्याप्ति की जानकारी हुई l
CO3	छात्रों को भाषा विज्ञान के अध्ययन की दिशाओं का परिचय हुआ l
CO4	छात्र भाषा विज्ञान के अनुप्रयोगात्मक पक्ष को समझते हैं l
CO5	छात्र साहित्य में अध्ययन -भाषा विज्ञान की उपयोगिता को समझते हैं l
M.A. Hindi M.A.II (semester-III)	
हिंदी साहित्य का इतिहास लरीतिका भक्तिकाल आदिकाल)	
On completion of the course students will be able to	
CO1	छात्र साहित्येतिहास लेखन के परिचय को जानते हैं l
CO2	छात्र साहित्येतिहास के कलविभाजन तथा नामकरण को जानते हैं l
CO3	आदिकाल, भक्तिकाल, रीतिकाल प्रमुख प्रवृत्तियों रचनाओं और रचनाकारों,का परिचय से अवगत हुए l
M.A. Hindi M.A.II (semester-III)	
क आलोचना हिंदी (	
On completion of the course students will be able to	
CO1	छात्र आलोचना के स्वरूप एवं विविध प्रकारों से अवगत हुए l
CO2	छात्र हिंदी के प्रमुख आलोचकों के आलोचनात्मक प्रतिमानों से परिचित हुए l
CO3	छात्र में साहित्यालोचना एवं व्यावहारिक समीक्षा की दृष्टि विकसित हुई l
M.A. Hindi M.A.II (semester-IV)	
HP .13आधुनिक काव्य	
On completion of the course students will be able to	

CO1	छात्रोंको आधुनिक हिंदी काव्य की प्रवृत्तियों का परिचय प्राप्त हुआ l
CO2	छात्रोंकोप्रबंध काव्य और मुक्तक काव्य के तात्त्विक स्वरूप का ज्ञान प्राप्त हुआ l
CO3	छात्रोंको आधुनिक काव्य प्रकारों का परिचय प्राप्त हुआ l
CO4	छात्रोंमें आधुनिक काव्य के आस्वादन अध्ययन औरमूल्यांकन की क्षमता विकसित हुई l
CO5	छात्रों में काव्य के प्रति रूचि वृद्धिंगत हुई l
M.A. Hindi M.A.II (semester-IV)	
HP 14. हिंदी भाषा का ऐतिहासिक विकास	
On completion of the course students will be able to	
CO1	छात्रों को हिंदी भाषा का उद्भवविकासऐतिहासिक, पृष्टभूमि का परिचय प्राप्त हुआ l
CO2	छात्र आधुनिक आर्य भाषाओँ के वर्गीकरण से अवगत हुए l
CO3	छात्रों को हिंदी के व्याकरणिक स्वरूप और विकास की जानकारी प्राप्त हुई l
CO4	छात्रों को हिंदी के प्रचार एवं प्रसार आंदोलनों की जानकारी प्राप्त हुई l
M.A. Hindi M.A.II (semester-IV)	
HP 15. हिंदी साहित्य का इतिहास	
On completion of the course students will be able to	
CO1	छात्रों को हिंदी गद्य के अर्विभाव के कारणों एवं परिस्थितियों का परिचय प्राप्त हुआ l
CO2	छात्रों को हिंदी गद्य के विकासक्रम का परिचय प्राप्त हुआ l
CO3	छात्र आधुनिक कल के साहित्य की उपलब्धियां तथा सीमाओं से अवगत हुए l
CO4	छात्र आधुनिक कल के साहित्य की उपलब्धियां तथा सीमाओं से अवगत हुए l
CO5	छात्रों को आधुनिक गद्यकारों एवं कवियों का परिचय प्राप्त हुआ l
M.A. Hindi M.A.II (semester-IV)	
HP 16. लोकसाहित्य	
On completion of the course students will be able to	
CO1	छात्रों को लोकसाहित्य के स्वरूप महत्त्व , से परिचित हुए l
CO2	छात्रों को लोकसाहित्य की विभिन्न विधाओं का ज्ञान प्राप्त हुआ l
CO3	छात्रों को लोकसाहित्य की व्यापकता और उपयोगिता से अवगत हुए l
CO4	छात्र महाराष्ट्र के लोकसाहित्य केसे परिचित हुए l

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PROGRAME OUTCOMES Department Of Marathi	
B . A	
After successful completion of three year bachlour and two year master degree program in Marathi a student should be able to	
PO1	विषयाचा अभ्यास करणाऱ्या विद्यार्थ्यास स्थूलपणे मराठी साहित्य ,मराठी भाषा आणि मराठी संस्कृती यांचा क्रमश: परिचय होतो
PO2	साहित्यासंबंधी - विशेषत: मराठी साहित्यासंबंधी रुची निर्माण होते
PO3	.विद्यार्थ्यांच्या वाङमयीन अभिरुचीचा विकास होतो .
PO4	आस्वाद घेण्याची डोळस क्षमता विकसित होते .
PO5	साहित्याभ्यासातून जीवन विषयक समज विकसित होते
PO6	मराठी साहित्यातील भिन्न भिन्न प्रवाह आणि प्रकार लक्षात येतात
PO7	जागतिकीकरणात विविध क्षेत्रांना सामोरे जाण्यासाठी भाषिक क्षमता विकसित होते .
PROGRAME OUTCOMES Department Of Marathi	
M . A	
After successful completion of three year bachlour and two year master degree program in Marathi a student should be able to	
PO1	वाङमयीन आणि जीवनावश्यक जाणिवा समृद्ध होतात
PO2	. साहित्य कृतींच्या चिकित्सक अभ्यासाची प्रवृत्ती वृद्धिंगत होते
PO3	भाषिक जाणिवा विकसित करून कौशल्यात्मक उपाययोजनांची विद्यार्थ्यांत पात्रता येते .
PO4	विविध जीवनक्षेत्रातील भाषाविषयक कौशल्य ग्रहनानंतर रोजगारक्षमतांची आणि प्रावीन्यांची निर्मिती होते .
PO5	वाङमयीनमूल्यांचे आणि जीवनमूल्याचे संस्कार होतात .
PO6	विशिष्ट कालखंडातील साहित्यनिर्मितीच्या प्रेरणा प्रवृत्ती लक्षात घेऊन साहित्याचे नेमके आकलन करता येते .
PO7	लेखकाच्या समग्र अभ्यासातून लेखकाच्या साहित्यकृती , आशयसूत्रे , भाषिक प्रयोग ,जीवनदृष्टी इत्यादींचे वाङमयीण प्रावाहातील मूल्यमापन व स्थान निर्धारण करता येते
Ph .D. Marathi	
After successful completion of three year bachlour and two year master degree program in Marathi a student should be able to	
PO1	. संशोधनाची ' संकल्पना ' व ' महत्व ' समजते .
PO2	साहित्याच्या अभ्यासातील संशोधनाचे महत्त्व लक्षात येते .
PO3	विविध प्रकारातील साहित्याचे संशोधन करणे .
PO4	सशोधनाच्या नवनवीन दिशा शोधतो .
PSO1	वाङमयीन संशोधनाच्या विविध अभ्यासक्षेत्रांचा परिचय होतो
PSO2	संशोधनाची संकल्पना , प्रयोजने आणि विविध संशोधन पद्धती समजाऊन घेतो .
PSO3	संशोधन करण्याची दृष्टी व क्षमता विकसित होते
PSO4	समीक्षा व्यवहारातील मूल्यकानांचा परिचय करून घेतो .
PSO5	मराठी साहित्य समीक्षकांची परंपरा समजाऊन घेतो .

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FYBA Marathi	
मराठी विनोदी कथा व व्यावहारिक व उपयोजित मराठी	
On completion of the course students will be able to	
CO1	साहित्य संबंधी रुची निर्माण होते.
CO2	मराठी भाषा व संस्कृती विषयी ज्ञान प्राप्त होते.
CO3	कथा व कविता या साहित्य प्रकारचा आस्वाद घेण्याची क्षमता निर्माण होते.
FYBCOM	
व्यावहारिक व उपयोजित मराठी	
On completion of the course students will be able to	
CO1	भाषा व्यवहाराचे स्वरूप समजते
CO2	कार्यालयीन मराठी भाषा वापरण्याचे तंत्र विकसित होते.
SYBA GEN.	
आधुनिक मराठी साहित्य व उपयोजित मराठी	
On completion of the course students will be able to	
CO1	भाषिक कौशल्य विकसित होतात.
CO2	चरित्र व आत्मचरित्र या साहित्य प्रकारचे ज्ञान प्राप्त होते.
CO3	आस्वाद व मूल्यमापन करण्याची क्षमता वाढते
SYBA S1	
मराठी साहित्यातील विविध प्रवाह	
On completion of the course students will be able to	
CO1	वेगवेगळ्या कालखंडातील परंपरा व संस्काराचा परिचय होतो.
CO2	नाटक व कादंबरी या साहित्य प्रकारचे आस्वाद व आकलन होण्याची क्षमता निर्माण होते.
SYBA S2	
अर्वाचीन मराठी वाङमयाचा इतिहास	
On completion of the course students will be able to	
CO1	विशिष्ट कालखंडातील साहित्याच्या प्रेरणा समजतात
CO2	ऐतिहासिक परंपरांचे ज्ञान होते.
SYBSC	
मराठी विज्ञान साहित्य आणि व्यावहारिक मराठी	
On completion of the course students will be able to	
CO1	विज्ञान साहित्य विषयी आवड निर्माण होते.
CO2	भाषिक कोशल्य विकसित होतात.
TYBA G3	
आधुनिक मराठी साहित्य आणि व्यावहारिक मराठी	
On completion of the course students will be able to	
CO1	विविध साहित्य प्रकाराचा परिचय होतो.

CO2	ग्रंथ परिक्षणाची आवड निर्माण होते.
TYBA S3	
साहित्य विचार	
On completion of the course students will be able to	
CO1	साहित्याचे विविध स्वरूप समजते.
CO2	साहित्याची वाङ्मयीन मूल्ये समजतात.
TYBA S4	
भाषा विज्ञान वर्णनात्मक व सामाजिक	
On completion of the course students will be able to	
CO1	भाषेविषयी सखोल ज्ञान मिळते.
CO2	भाषेतील "स्वनिम " संकल्पना समजते.
MAI	
व्यावहारिक व उपयोजित मराठी	
On completion of the course students will be able to	
CO1	साहित्य संबंधी रुची निर्माण होते.
CO2	मराठी भाषा व संस्कृती विषयी ज्ञान प्राप्त होते.
CO3	कथा व कविता या साहित्य प्रकारचा आस्वाद घेण्याची क्षमता निर्माण होते.
MAI	
मध्ययुगीन मराठी वाङमयाचा इतिहास	
On completion of the course students will be able to	
CO1	भाषा व्यवहाराचे स्वरूप समजते.
CO2	चरित्र व आत्मचरित्र या साहित्य प्रकारचे ज्ञान प्राप्त होते.
MAI	
भाषा विज्ञान: वर्णनात्मक व सामाजिक	
On completion of the course students will be able to	
CO1	भाषिक कौशल्य विकसित होतात.
CO2	आस्वाद व मूल्यमापन करण्याची क्षमता वाढते.
MAI	
ग्रामीण व दलित साहित्य	
On completion of the course students will be able to	
CO1	वेगवेगळ्या कालखंडातील परंपरा व संस्काराचा परिचय होतो.
CO2	नाटक व कादंबरी या साहित्य प्रकारचे आस्वाद व आकलन होण्याची क्षमता निर्माण होते.
MAII	
प्रसार माध्यमे व साहित्य व्यावहार	
On completion of the course students will be able to	

CO1	ग्रंथ परिक्षणाची आवड निर्माण होते
CO2	साहित्याची वाङ्मयीन मूल्ये समजतात
MAII	
साहित्य: समीक्षा व संशोधन	
On completion of the course students will be able to	
CO1	साहित्य विषयी आवड निर्माण होते.
CO2	भाषिक कोशल्य विकसित होतात.
MAII	
विशेष लेखकाचा अभ्यास	
On completion of the course students will be able to	
CO1	विविध साहित्य प्रकाराचा परिचय होतो.
CO2	ग्रंथ परिक्षणाची आवड निर्माण होते.
MAII	
लोक साहित्याची मुलतत्वे	
On completion of the course students will be able to	
CO1	साहित्याचे विविध स्वरूप समजते.
CO2	साहित्याची वाङ्मयीन मूल्ये समजतात.
Programme Specific Outcomes, Department History	
PSO1	After completion of this course they gather knowledge about the socio-cultural heritage of India and world as well.
PSO2	Help to grow national and international understanding among history students.
PSO3	Careers options for students to engage as MPSC ,UPSC and other Competitive exam. educators, archivists, producers of multimedia material and even as a researcher in historic Sites and Museums, Historical Organizations, Cultural Resources Management and Historic Preservationetc.
PSO4	History helps them in knowing the past people, their culture, their religions, and their social systems, and transforms them into responsible citizens to make a better future.

F.Y BA Semester –I	
Early India: From Prehistory to the Age of the Mauryas	
On completion of the course students will be able to	
CO1	The history of Early India is a crucial part of Indian history. It is a base for understanding the entire Indian history. The course is aimed at helping the student to understand the history of early India from the prehistoric times to the age of the Maury's.

CO2	It attempts to highlight the factors and forces behind the rise, growth and spread of civilization and culture of India along with the dynastic history. It also attempts to help the students to understand the contribution of Early Indians to polity, art, literature, philosophy, religion and science and technology.
CO3	It also aims to foster the spirit of enquiry among the students by studying the major developments in early Indian history.
F.Y BASemester-II	
Early India: Post Mauryan Age to the Rashtrakutas	
On completion of the course students will be able to	
CO1	The history of India after the Mauryas is very important to understand the developments in early India after the Mauryas, which finally led to the transition to medieval India.
CO2	.The course is aimed at introducing the students to the developments in different parts of India through a brief study of regional kingdoms up to the tenth century C.E. It attempts to highlight the consequences of the foreign invasions, particularly on the polity, economy, society and art and architecture. The attempt is also to instill the spirit of enquiry among the students.
S.Y BA	
G-II Modern India (1857-1950)	
On completion of the course students will be able to	
CO1	The course is designed to help the student to know- History of freedom movement of India, aims, objectives problems and progress of Independent India. It aims at enabling the student to understand the processes of rise of modern India.
CO2	The Course attempts to acquaint student with fundamental aspects of Modern Indian History.
CO3	To explain the basic concepts/ concerns/ frame work of Indian History.
S.Y BA	
S-I Ancient India (3000 B.C. to 1206 A.D.)	
On completion of the course students will be able to	
CO1	To Survey the sources of History of Ancient India. The Course intends to provide an Understanding of the social, economic, religious and institutional bases of Ancient India. The course will study such as agriculture, Industry, trade.
CO2	To study the development of the concept of Nation- State background of political history. To study ancient Indian Art & Architecture.
S.Y BA	
S- II History of Modern Maharashtra	
On completion of the course students will be able to	

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CO1	The purpose of the course is to enable the students to study the history of modern Maharashtra .
CO2	To highlight the ideas, institutions, forces and movements that contributes to the modern Maharashtra.
CO3	To acquaint the students with various interpretative perspectives.
CO4	To introduce the student to the regional history within a broad national framework.
T.Y BA	
G-III History of the World in 20th Century(1914-1992)	
On completion of the course students will be able to	
CO1	To help the student to know Modern World. To acquaint the student with the Socio-economic & Political developments in other countries. And understand the contemporary world in the light of its background History
CO2	To orient the students with political history of Modern World.
CO3	To acquaint Students about the main developments in the Contemporary World (To understand to important development in 20th century World.)
CO4	Impart knowledge about world concepts.
CO5	To enable students to understand the economic transition in World during the 20th Century.
CO6	Become aware of the principles, forces, processes and problems of the recent times.
CO7	To acquaint the students with growth of various political movements that shaped the modern world.
CO8	To highlight the rise and growth of nationalism as a movement in different parts of the world.
T.Y BA	
S-III Introduction to History	
On completion of the course students will be able to	
CO1	To orient students about how history is studied, written and understood.
CO2	To explain methods and tools of data collection
CO3	To understand the meaning of Evolution of Historiography.
CO4	To study the Various Views of Historiography.
CO5	To study the approaches to Historiography.
CO6	To study the types of Indian Historiography.
CO7	To describe importance of inter-disciplinary research.
CO8	To introduce students to the basics of research.

CO9	To acquaint the student with the recent research in History.
CO10	Learn how to use sources in their presentation
T.Y BA	
S-IV History of USA (1914-1992)	
On completion of the course students will be able to	
CO1	To acquaint Students about the rise and development of the USA as a world power.
CO2	To acquaint Students about the main developments in the Contemporary World
CO3	To comprehend the socio economic reforms in 1914 – 1992.
CO4	To acquaint the students with the principles of foreign policy.
CO5	To orient the students with political history of Europe.
M.A SEMESTER I	
Course Title: HS: CC – 1: History: Theory and Method	
On completion of the course students will be able to	
CO1	The paper is designed to provide adequate conceptual base, bring better understanding of history and its forces, help interrogate existing paradigms and challenge the outdated, help in developing critique, help research in terms of methodology, formulating hypotheses and develop broad frames of interaction with other social sciences and attain certain level of interdisciplinary approach
M.A SEMESTER I	
Course Title: HS: CC – 2: Evolution of Ideas and Institutions in Early India	
On completion of the course students will be able to	
CO1	The course intends to provide an understanding of the social, economic and institutional bases of early India.
CO2	It is based on the premise that an understanding of early Indian history is crucial to understand Indian history as a whole.
M.A SEMESTER I	
Course Title: HS: CC 3: Maratha Polity	
On completion of the course students will be able to	
CO1	The purpose of the course is to study the administrative system of the Marathas in an analytical way, to acquaint the student with the nature of Maratha Polity,
CO2	.to understand basic components of the Maratha administrative structure, to enable the student to understand the basic concepts of the Maratha polity.

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M.A SEMESTER I	
Course Title: HS: EC-2: Early History of Maharashtra – Satavahana to Rashtrakuta	
On completion of the course students will be able to	
CO1	This course is an intensive study of the early historical period in Maharashtra, and is meant to help the student to understand both, the distinctive features of the developments in Maharashtra, and their links to the broader developments in the Deccan and in the rest of India.
M.A SEMESTER II	
Course Title: HS: CC – 4: Approaches to History	
On completion of the course students will be able to	
CO1	The course aims at introducing the student to the ways in which history has been understood and the different approaches that have come about as a result of such understanding.
M.A SEMESTER II	
Course Title: HS: CC – 5: Ideas and Institutions in Medieval India	
On completion of the course students will be able to	
CO1	The course examines the nature of medieval Indian society, economy, state formations, and the main religious currents of the time. It is seen as a continuation of the course on ancient India. It is also seen to be crucial to an understanding of the nature of society, and the problems of the challenge to that society, through colonialism, at a later stage.
M.A SEMESTER II	
Course Title: HS: CC – 6: Socio-Economic History of the Marathas	
On completion of the course students will be able to	
CO1	The purpose of the course is to study socio-economic history of the Marathas in an analytical way, to acquaint the student with the components of social structure and their functions, to understand the relationship between religion, caste, customs, traditions, class in 17th and 18th century Maratha Society, to enable the student to understand aspects of economic life, to trace the determinants of changes in social and economic life.
M.A SEMESTER II	
Course Title: HS: EC – 11: Marathas in 17th and 18th Century Power Politics	
On completion of the course students will be able to	
CO1	The course intends to study the role played by the Marathas in the context of India, the changing nature of Maratha State, to understand and analyse the Maratha expansionism and its significance in various spheres.

Programme Specific Outcome	**Department of Political Science**
PSO1	Understanding the nature and developments in national and international politics
PSO2	Analysing the Indian constitutional provisions, major legislations and reforms

PSO3	Critical evaluation of social, economic and political variables for a proper understanding of the plurality of Indian society
PSO4	-Building overall consciousness regarding national political history, international relations and present Indian and Western political thinkers.
PSO5	- Developing knowledge of administrative studies with special reference to Indian administrative structures and practices.
PSO6	Examining India's foreign relations with her neighbours and great powers.
PSO7	Use of case study method for analysing the working of important international and regional organisations

F. Y. B. A. (G-1) Semester-I	
INTRODUCTION TO INDIAN CONSTITUTION Total Credits : 03	
CO1	. To acquaint students with the important features of the Constitution of India andwith The basic framework of Indian government
CO2	To familiarize students with the working of the Constitutionof India.

F. Y. B. A. (G-1) Semester-II	
INTRODUCTION TO INDIAN CONSTITUTION	
CO1	To acquaint students with the important features of the Constitution of India andwith The basic framework of Indian government
CO2	To familiarize students with the working of the Constitutionof India.

S. Y. B. A. (G-2) SEMESTER III PERIOD CC-I C (3)	
INTRODUCTION TO POLITICAL IDEOLOGIES	
This course is designed to acquaint students with the	
CO1	Role of different political ideologies and their impact in politics
CO2	Close link between an idea and its actual realization in public policy
CO3	Legacy of all the major ideologies

S. Y. B. A. (G-2) SEMESTER IV CC-1 D (3)

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INTRODUCTION TO POLITICAL IDEOLOGIES	
This course is designed to acquaint students with the –	
CO1	Role of different political ideologies and their impact in politics
CO2	. Close link between an idea and its actual realization in public policy
CO3	Legacy of all the major ideologies

S. Y. B. A. (S-1) SEMESTER III PERIOD DSE-1A (3)	
WESTERN POLITICAL THOUGH	
This course is designed to acquaint students with the –	
CO1	Major traditions of thought that have shaped political discourse in different parts of the world.
CO2	The great diversity of social contexts and philosophical visions.
CO3	The history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.

S. Y. B. A. SEMESTER IV DSE-1B (3)	
WESTERN POLITICAL THOUGH	
This course is designed to acquaint students with the	
CO1	Major traditions of thought that have shaped political discourse in different parts of the world.
CO2	The great diversity of social contexts and philosophical visions
CO3	The history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life

S. Y. B.A SEMESTER III PERIOD DSE-2A (3)	
POLITICAL JOURNALISM	
This course is designed to acquaint students with the –	
CO1	Complex relationship between the communication, media and power politics
CO2	Critical appraisal of practices of political image management, campaigns, propaganda and censorship.
CO3	Indian context of political Journalism

S. Y. B. A. SEMESTER IV DSE-2B (3)
POLITICAL JOURNALISM
This course is designed to acquaint students with the –

CO1	Complex relationship between the communication, media and power politics.
CO2	Critical appraisal of practices of political image management, campaigns, propaganda and censorship.
CO3	Indian context of political Journalism

S. Y. B. A. (Extra Credit)	
BASICS OF INDIAN CONSTITUTION	
CO1	To acquaint students with the important features of the Constitution of India and with the basic framework of Indian government.
CO2	To familiarize students with the working of the Constitution of India.

T. Y. B. A. CC-1 E (3) (G-3)	
POLITICAL IDEALOGIES	
CO1	This course will introduce the overall scope of the sub-discipline of Modern Political Analysis. The focus of the course will be on the Modern Political Analysis of power. The emphasis is on the nature of power in modern societies- more in the form of organizations and social formations than as individual power. Students are also expected to understand different forms of justifications of power and the role of ideology in this regard. State will be studied as a repository of power in society while class and patriarchy are two instance of how the nature of power is shaped by social factors. SEM

T. Y. B. A. CC-2 E (3) (G-3)	
POLITICAL IDEALOGIES	
CO1	This course will introduce the overall scope of the sub-discipline of Modern Political Analysis. The focus of the course will be on the Modern Political Analysis of power. The emphasis is on the nature of power in modern societies- more in the form of organizations and social formations than as individual power. Students are also expected to understand different forms of justifications of power and the role of ideology in this regard. State will be studied as a repository of power in society while class and patriarchy are two instance of how the nature of power is shaped by social factors. SEM

T. Y. B. A. DSE 1 C (3)+1 (S-3)	
PUBLIC ADMINISTRAION	
CO1	This paper is an introductory course in Public Administration. The essence of Public Administration lies in its effectiveness in translating the governing philosophy into programmes, policies and activities and making it a part of community living. The paper covers personnel public administration in its historical context thereby proceeding to highlight several of its categories, which have developed administrative salience and capabilities to deal with the process of change. The recent developments and particularly the emergence of New Public Administrations are incorporated within the larger paradigm of democratic legitimacy. The importance of legislative and judicial control over administration is also highlighted

Mula Education Society's

Shri Dnyaneshwar Mahavidyalaya, Newasa

Course Outcomes

(2020-21)

T. Y. B. A. DSE 2 C (3)+1 (S-4)	
INTERNATIONAL POLITICS	
CO1	This paper deals with concepts and dimensions of International Relations and makes an analysis of different theories highlighting the major debates and differences within the different theoretical paradigms. The dominant theories of power and the question of equity and justice, the different aspects of balance of power leading to the present situation of a unipolar world are included. It's highlights various aspects of conflict and conflicts resolution, collective security and in the specificity of the long period of the post second world war phase of the cold war, of Detent and Deterrence leading to theories of rough parity in armaments.

T. Y. B. A. DSE 2 D (3)+1 (S-4)	
INTERNATIONAL POLITICS	
CO1	This paper deals with concepts and dimensions of International Relations and makes an analysis of different theories highlighting the major debates and differences within the different theoretical paradigms. The dominant theories of power and the question of equity and justice, the different aspects of balance of power leading to the present situation of a unipolar world are included. It's highlights various aspects of conflict and conflicts resolution, collective security and in the specificity of the long period of the post second world war phase of the cold war, of Detent and Deterrence leading to theories of rough parity in armaments.

T.Y.B.A. SEC 2C (2) (2 Extra Credit)	
SAMYUKTA MAHARASHTRA MOVEMENT	
CO1	. This Course is an introduction to the political process in Maharashtra with special reference to regionalism sub-regionalism and Samyukta Maharashtra Movement
CO2	The aim of the course is that students are expected to understand both the historical evolution of Maharashtra's politics and different analyses of politics of the state.
CO3	. It tries to acquiant students with the main issues and concerns in the public life of a regional society as it shaped in the concept of colonialism, nationalism and modernity.

T.Y.B.A. SEC 2D (2) (2 Extra Credi	
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