Dr. Rafiq Zakaria College for Women, Aurangabad

Course outcomes

BSc.	
Subject: Chemistry Name of Paper	Course Outcomes
I Inorganic Chemistry II Organic Chemistry	 After completion of this course students able to: To understand atomic structure, quantum numbers, Heisenberg uncertainty principle, shapes of s, p, d orbitals. Aufbau and Pauli exclusion principles. Hund's multiplicity rule. To explain periodic properties, trends in periodic table and application in predicting and explaining the chemical behavior. To understand comparative study, diagonal relationship, solvation and complexation tendencies including their functions in biosystems. Know interhalogen compounds and its types. Know structure and reactivity relationship. To explain nomenclature and structures of compounds. To understand reactivity and mechanism of organic reactions. To explain stereo chemistry. To understand chemistry of alkanes, alkenes, alkynes, arenes and aryl halides their reactivity, aromaticity,
Sem II	chemical & biological recognition.
IV Physical Chemistry	 To understand mathematical concepts like derivation, integration, curve sketching (graphical representation) use of logarithm is there. To explain state of matter (Gaseous, Liquid, Solid and Colloidal state): States of matter explained by using different laws. Nature of liquids, bonding present in it. Liquid crystals and its types. Explains types of solids, crystal structure, and determination of crystal structure. Explanation of colloidal state of matter by different examples, types of colloidal system. Write an expression for rate constant K by studying chemical kinetics. Investigate how different experimental conditions can

	influence.
V Inorganic Chemistry Sem III	 To understand chemistry of nobel gases. To understand types of bonding in molecules. To solve problems of volumetric analysis. To understand theory of Nuclear Chemistry.
P-VII Organic Chemistry P-VIII Physical Chemistry	 To explain chemistry of Alcohol, Phenol, Aldehyde-Ketone and Carboxylic acids their reactivity and applications. Chemistry of Organic compounds of Nitrogen its chemical reactions. Know the relation between heat and other forms of
	 energy. To Explain First law of thermodynamics. Know the key concepts of internal energy and heat. To understand second law of thermodynamics able to explain the concept of entropy. To understand the chemical equilibrium. To solve the problems of chemical equilibrium.
Sem IV	
P-X Inorganic Chemistry	 To understand chemistry of d-block and f-bolck elements. To understand and co-ordinate bonding in metal and ligands. Know the meaning of various terms involved in co-ordination chemistry. To understand Werner's formulation of complexes and identify the types of valencies. Know the applications and limitations of VBT Understand chemistry of acids and bases. Know the theory of non-aqueous solvents.
P-XI Physical Chemistry	 To understand phase equilibrium Know the meaning of phase, component and degree of freedom. To understand the relation between electric and chemical phenomenon by studying electrochemistry.
Sem V	
P-XIII Physical Chemistry	 To understand structure of atom and nature of bond formation by studying quantum mechanics. To interpret the structure of molecules by using spectroscopic techniques. To understand chemical effects of light. Explains fluorescence, phosphorescence phenomenon. To explain applications photochemistry.

P-XIV Organic Chemistry	 To predict the molecular structure by using physical properties like dipole moment, optical activity, magnetism. To define nanomaterial their applications and preparations. To use spectroscopic methods in structure determination. To define chemical shift, shielding deshielding. To understand application and preparation of organo metallic compounds. To know chemistry of Fat, oil & Detergent.
	 To know chemistry of Fat, on & Detergent. To manufacture soaps and food preservatives.
Sem VI	To manufacture soups and rood preservatives.
P-XVI Inorganic Chemistry	 To learn metal-ligand bonding in transition metal complexes. To explain electronic spectra of transition metal Complexes. To understand reactivity and structures of organometallic compounds. To learn the concepts of bioinorganic chemistry. To understand the chromatographic techniques.
PXVII Organic Chemistry	 To understand reactions of heterocyclic compounds. To know carbohydrates and its types. To study types and applications of synthetic polymers. To understand concepts of synthetic dyes and drugs.
Sem I	Analytical Chemistry
P-I Fundamentals of analytical chemistry	 Scope and Importance of Analytical Chemistry: Useful tool for all human beings. Sampling of Analytical samples: Quality control department of pharma, Chem, Agro, Food, etc. Reagents Solvents and their Classification: In distillation plant, Homeopathic preparation Working in Analytical Chemistry: Quality Control of Industries Digital electronics and Computers: As a tool in laboratories
P-II Basic concepts of analytical chemistry	 Balance: Weighing in laboratory, pharmaceutical analysis, Research centre Chemical Apparatus and Laboratory Note Book for Analytical Chemistry: In Quality control laboratories, bulk drug manufacturing, forensic laboratories Chemical Calculations: All chemical pharmaceutical

	 laboratories, research institutes Common Apparatus: All chemical pharmaceutical laboratories, research institutes Acid-Base Equilibria: Surgical preparations
Sem II	
P-III Statistical treatment & modern methods of analysis	 Data Handling: Mathematical tool for chemists Chromatography: As a tool in pharmaceutical industry, chemical, agriculture, pesticide, forensic laboratory etc Electrophoresis: Protein analysis, separation of compounds Flame Photometry: Estimation of alkali metals Environmental Pollution: Analysis of industrial waste, Vehicle effluent control, Waste management
P-VI Classical & spectral methods of analysis	 Titrimetric Methods of Analysis: As a tool in quality control department Gravimetric Analysis: Metallurgical industry Spectral Method of Analysis: Research centres, pharmaceutical industries Precipitation Titration: As a tool in quality control department Complexometric Titrations & Some basic concepts of redox titrations: In agricultural industries, Biochemical industries
Sem:III	
P-VII Laboratory Techniques: Inorganic and Organic Analysis	 Theory of Redox titration and Iodometric titration: Metallurgical industries Complexometric titration: Water Analysis Organic Estimations: Food & Chemical industries Common Laboratory Techniques: As a tool for all laboratories Theory of Redox titration and Iodometric titration:Metallurgical industries
P-VIII Advance Analytical Techniques	 To understand Solvent Extraction, Gas Chromatography, Column Chromatography, Biotechnological Companies Ion Exchange Chromatography: Water purification, Biomedical preparation Affinity Chromatography: Biochemical industries
Sem:IV	

P-XI Instrumental methods of Analysis-I P-XII Instrumental methods of	 Conductance measurements: Water Analysis, Soil Analysis Potentiometry: Pathological lab High Frequency Titrations: Metal industires Atomic Absorption Spectroscopy: Ayurvedic pharmulation Nephlometry: Distilleries
Analysis-II	 Polarography: Drug, Metal industries Physical methods of analysis: Organic laboratories Thermal methods of analysis: In Metallurgical industries Radio chemical methods of analysis: In Medical preparations, Pharmaceutical industries, Fluorimetry: Paint industries
Sem:V	
P-XV Modern Techniques in Analysis	 I.R. Spectroscopy: Research study, Pharmaceutical industries, Determination of functional group, probable structure of compounds NMR-Spectroscopy: Research centres, determination of
	protons Mass Spectroscopy: Determination of mass of new compounds in Research centre/pharma chemical laboratories • Fluorescence Spectroscopy: Surface analysis, life of the
	geochemical, Archeological department
P-XVI Industrial, Microbiological & Biochemical Analysis	 Industrial Analysis: Analysis of waste management, bulk drug analysis Microbiological analysis: Microbial count in water i.e. E. Coli, etc Biochemical analysis: Estimation of Proteins, Carbohydrates, Blood Chemistry
Sem:VI	Carbonydrates, Blood Chemistry
P-XIX Applied Analytical Chemistry-I	 Inorganic Analysis: Estimation of metals, Non-metals etc. Analysis of cement and coal: Estimation of Ca, Mg, Proximate analysis Analysis of fertilizers: Estimation of Na, K, P Environmental Analysis: Air sampling, Analysis of SO_x, NO_x, CO, Water Analysis, Waste and waste, Acid Rain: water analysis, Estimation of BOD, COD, Analysis of soil: Estimation of Na, K, P, Fe, pH, Water
P-XX Applied Analytical Chemistry-II	 holding capacity Introduction to food analysis: Food Industry, Food & Drugs Department Analysis of food and food products: Bakery Products,

	Food Pavarages
	 Food Beverages Pharmaceutical analysis: Analysis of Tablets, Capsules, Injections etc. Clinical chemistry or analysis: Blood Analysis, Urine Analysis, Forensic Laboratory. Physics
Paper	Course Outcome
PHY 101 - Mechanics, Properties of Matter, Ultrasonics and Acoustics of Buildings	 Acceleration due to gravity can be determined by Kater's pendulum. Newton's law of gravitation is the universal law helpful in studying classical mechanics. Clears the concept of gravitational field and gravitational potential. Helps to understand Universe. Elastic moduli can be calculated for different materials. Basic relation between the three moduli is given. Physical property of elasticity of solid can be determined, Useful in physical analysis. Helpful in determining the property of liquids. Designing of good acoustical structure, helpful in constructions of buildings. Designing of ultrasonic generators and wide applications of ultrasonic waves in different fields or industries.
PHY 102 - Heat and Thermodynamics	 Concept of heat transfer is explained. Different values of conductivities of metal are given. Ideal gas equation is modified to give Vander Waals equation, critical constants of a gas are defined, thermal conductivity and viscosity are explained on the basis of transport phenomenon, and different types of process like isothermal, adiabatic reversible, irreversible are explained along with work done equations. Concept of heat engines and their efficiencies is introduced. Concept of entropy is explained. Maxwells thermodynamical relations along with their applications helps to determine other constants.
Sem II	•
PHY 104 Geometrical and Physical Optics	 Cardinal points of an optical system is explained, Huygen's eyepiece and Ramsden's eyepieces along with their cardinal points are given. Newton's rings and Michealson's interferometer is explained and they are helpful in checking the plainness of optical surfaces.

	 Resolving power of instruments is defined, care can be taken while using the optical instruments to increase their resolving powers. Phenomenon of polarization is explained in detail.
PHY 105 Electrostatics and Magnetostatics	 Differential operators are defined; Vector identities are given, helpful in studying mechanics. Coulomb law and Gauss law are introduced, Polarization in dielectric is explained in detail. Different laws like Biot –Savart's and Amperes law are discussed, construction and working of Moving Coil ballistic galvanometer is discussed. Growth and decay of current in the circuits like, LR, RC and LRC helps to understand the working of the components.
PHY 103 and PHY 106 Practical	 Develops the skill of the students, helps them in determining the Physical parameter of the matter. Practical based on determining the moduli of elasticity helps them determine these values with different methods.
Sem III	
PHY 201 : Paper VII (Mathematical, Statistical Physics and Relativity)	 Differentiation and their types helps students to understand mechanics of a body. 1st and 2nd order differential equation are solved. Baisc rules of statistical distribution are described. Helps to understand Quantum concepts. Need for quantum statistics, Distribution laws like B.E. and F.D. are explained along with an example Frame of references is introduced, theory of relativity is explained in detail along with length contraction, time dilation and the famous Einstein's energy mass relation. Helps students to clear the concept of relative motion.
PHY 202 Paper VIII – Modern and Nuclear Physics	 Different cells that can generate current using Photoelectric effect is explained. Laws of Photoelectric effect are given. X-ray production. Its characteristics and use is explained. Helpful in understanding nuclear models and nuclear reactions. Particle accelerators and various accelerators are explained.
	 Interested students can further continue their studies in

	nuclear Physics and can appear for exams of research centre like BARC, TIFR etc.
PHY 205 XI – General Electronics	 centre like BARC, TIFR etc. Helpful in the construction, working and characteristics of transistors, FET and MOSFET. Helpful in understanding the various sensors that are developed by modifying the fabrication of transistors. Helpful in understanding the operation of transistors, Various circuits with op-amp as adder, subtractor can be designed; amplifiers of different purpose can be designed. Oscillators, their principle and types are described. Different types of oscillators and multivibrators circuit can be designed. Oscillators and multivibrators have
	 wide applications. Modulation, one of the key aspect of communication world is introduced, need for Modulation is explained.
PHY 206 Paper No. XII –Solid State Physics	 Helpful in understanding the crystal structure of the materials. Basic terms like unit cell, basis, and symmetry operations are made clear. Concept of inter atomic forces and energies is made clear, types of bonding is useful to the students in understanding crystal structure. Different theories regarding heat capacities help students to understand the thermal properties of solids. Theories based on free electron property helps to understand certain natural phenomenon like electrical, thermal conductivity, Hall effect and its importance.
PHY 207 - Practical Paper No. XIII PHY 208 - Practical Paper No. XIV	 Theory and practical go side by side hence many of the theoretical concepts are made clear practically. Learns to use instruments like polarimeter, Spectrometer, CRO. Helpful in understanding the characteristics of active component of electronics. Attempt is made to understand the designing of circuits like adder, subtractor, amplifiers and oscillators. Develops research skill, numeracy and computation skills. Helps develop critical thinking and problem solving ability.
V Sem	
PHY 301 - XV Classical and Quantum Mechanics	 Motion of an object can be expressed in terms of differential equations Various examples of Lagrangian equations are given. Failure of classical theory and planck's radiation law is

	avaraged
	 expressed, Photoelectric effect is explained by Quantum radiation law. Dual nature of em radiation is introduced, Various experiments that establishes the nature are described. Certain examples that verify the dual nature helps students to understand the concept. shows the quantised nature of the energy as well momentum of the matter wave. It is a good tool to understand the dual nature of wave and show its quantization.
PHY 302 Paper XVI : Electrodynamics	 Basic electrostatic laws are described. The fundamental laws of electrodynamics, Maxwell's equations are explained with derivation. This helps the students to understand the inter relation between electric and magnetic field. Helps in understanding the properties of EM waves. Very useful in understanding the EM waves as em waves are having wide applications in almost all the fields of life EM waves help in passive as well as active remote sensing. Interaction of em waves with matter gives rise to different phenomenon Helpful in understanding these phenomenon.
PHY 305 Paper No. XIX Atomic, Molecular Physics and Laser.	 Helpful in understanding the spectra of materials, Line and band spectra is introduced. Crystal or molecular structure can be understood. Can be employed as data Analyst. Can work as Laser operator.
PHY 306 Paper No. XX Non-Conventional Energy Sources and Optical fiber.	 Importance of energy and how energy can be generated by different methods is described. Need of the hour. Basic theory behind the working of solar cell and its characteristics helps students to understand its efficiency. Optical fiber, their construction and working helps to understand how they are useful in communications.
Practical Papers (PHY 303 XVII + PHY 304 XVIII) Practical Papers (PHY 307 XXI + PHY 308 XXII)	 Helps to understand the properties of lasers. Students learn to plot graphs using excel.
Botony	
Paper	Course Outcome
	I

Paper-I Diversity of Cryptograms	 Students understand about basic primitive living organism that is smallest bacteria, lichen, fungi and algae. To give information about lower plants and their life cycle. Students Understand diversity among algae. Students get knowledge about useful and harmful activities of algae. Students understand biodiversity of their structure reproduction classification and life cycle. Students get knowledge about the economic importance of fungi.
P-II -Morphology of Angiosperm	 Students understand morphological Structure of Plant basic body plan. Students proper knowledge of plant part right from root stem leaves flower fruit and seed Morphological aspect of plant is a key for the classification of plants Students understand the Modification of root of angiosperm stem leaves. Students can understand the vegetative and reproductive parts of plant. Students learn the various types of fruits. Understand the mode of pollination.
Semester II paper V- Diversity of Cryptogams II	 Understand the morphological diversity of bryophytes. Students understand the economic importance of bryophytes. Students understand taxonomic position their occurrence thallus structure, reproduction of bryophytes.
Paper VI Histology Anatomy and Embryology.	 Students are able to understand about tissue histology their origin and function. Students are known about Anatomical structure. Students understand the embryological structure of their development. Students and the various histological organisation and vascular bundles. Students get information about the development of embryo to mature seed and original plant.
B.Sc Second year Semester III Paper IX. Taxonomy of Angiosperms.	 Plant classification gives information about plant to classify different families. Plant description about morphological and reproductive sketch of plants and identify the different families with specific key character. Herbarium techniques knowledge to help in

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	identification of plants. 4.Students determine economic and medicinal plants in agriculture and medicine.
	• Students are able to know characteristic of various plants and classification of different plant groups to understand different taxonomic group and evolutionary.
	 Student understand Basic concept of taxonomy.
	• Students illustrate the type merits and demerits of
D. W.D. (F. I	various system of classification.
Paper -X Plant Ecology	 Students able to understand environmental problem along with finding solution.
	 Environmental principles that provides and in death understanding of our environment.
	 The scientific basis for understanding how environmental system work, population and wealth of our natural resource. Environmental educate pollution effects and control, monitoring and assessment of environment.
	 Understand the scope of environmental biology and come to know how ecosystem works.
	• Students understand how elements are in the environment by the biogeochemical cycle.
	 Students are able to identify the natural resources and importance of, national parks, sanctuaries and biosphere reserve.
	 Students understand by edaphic factor of environment.
	 Students know the botanical regions of India and vegetation types of India and Maharashtra.
	• Students understand plant communities and ecological adaptation in India.
	 Students understand the Food Chain and Food Web energy pyramid energy flow in ecosystem .Students understand the biogeochemical cycle.
IV Sem	Course will provide a comprehensive knowledge of
Paper XIII. Gymnosperm and Utilization of Plants	plant of gymnosperm.
Cumzation of Flants	Student can describe silent feature and classification of
	gymnosperm.Student reviews critically the biology and Fossil group
	of plants.
	 Students can identify the Fossil forms of gymnosperm.
	• Students understand the evolutionary significance of gymnosperm.
	 Students understand the role of plants in human welfare.

	Students know importance of plants and plant products.
	 Students know importance of plants and plant products. Students know about the utility of plant resource.
Paper XIV. Plant physiology	Students understand the physiological mechanism of
	plants.Students understand various biochemical pathways of plants.
	• This course provides nautical knowledge in Plant Structure and their function.
	 Student gets knowledge of different biochemical pathway.
	• Students are able to relate the characteristic structure and their function along with classification.
	• Students are able to give role of enzymes. Students can understand nomenclature and classification of enzymes.
	 Students understand various physiological actions of plants such as absorption transpiration photosynthesis and respiration.
	 Students come to know about growth hormone and their role in promoting growth.
	 Students Acquire knowledge on physiological response of plants to various factors.
	 Students understand respiration in higher plants with particular emphasis on aerobic and anaerobic respiration.
B.Sc III Year Semester V	The students get knowledge about cell science.
Paper -XVII. Cell Biology and Molecular Biology.	 Students understand cell wall plasma membrane cell organelles and cell division.
	 Students learn the scope and importance of Molecular Biology.
	 Students understand DNA and RNA.
	• Students understand the biochemical nature of nucleic acid and their role in living system and experimental evidence to prove DNA genetic material.
	• Students understand what is chromosome, chromosomal aberration and its role in evolution.
	 Student gets complete knowledge of karyotype.
Paper -XVIII Plant Pathology	 Students understand the concept principles and types of sterilization methods.
	 Students know the concept and characteristic of antiseptic disinfectant and their mode of action.
	• Students learn the cultivation methods of bacteria, fungi

	and vinesa
	 and viruses. Students understand the principle working and application of instrument, pH metres autoclave spectrophotometer, laminar flow centrifuge machine viscometer Shaker and seed germinator. Students understand scope and importance of plant pathology.
B.Sc III Year Semester VI Paper XXI Genetics And Biotechnology.	 Students understand the Mendelian principles laws with statistics data. Students understand sex determination in plants human insects Birds. Students able to import the knowledge of interaction of genes. Students are able to know about multiple alleles. Students learn DNA Recombinant Technology. Students come to know about amino sentences and genetic counseling. Students learn the application of genetic engineering. Students can understand inborn error of genetic metabolism.
Paper -XXII Microbiology And Disease Management	 Students understand the sterilization methods. Students learn the methods of media preparation. Students understand the pathogen and their life cycle. Students understand the prevention and control measures of plant diseases and its effects on Economy of crops.
	Zoology
Paper	Course Outcome
Protozoa to annelida Arthropoda to echinodermata and protochordata	 Came to knowing the basic concept of biosystematics and procedure in taxonomy. Identified the taxonomic status of the entire non-chordates up to annelids and discuss the evolutionary model of the group. Described the general biology of few selected non-chordates useful to mankind. Know about some of the important and common protozoans, helminthes of parasitic nature causing diseases in human beings. Understood the importance of metamerism in annelids. Understood the anatomy and physiology of invertebrate animals by dissection.

Described the structural study and mounding of organs. Came to knowing the rules of taxonomy and the principle of animal classification. Understood the diversity morphology, biological characters and taxonomical importance some selected museum specimens of different animal groups. Acquired knowledge of principles and working mechanisms of microscopes. Understood the mechanism of mitosis and meiosis. Gained slide preparation to observe of Giant chromosome, epithelial and blood cells **CELL BIOLOGY GENETICS -**Understood the structure of cells and cell organelles in relation to the functional aspects and understanding of (Paper II &V) the working principles and applications of microscopes. Described the composition of prokaryotic eukaryotic cells. • Understood the structure and functions of chromosome; mitotic and meiotic cell divisions and their significance. Understood the properties and treatment of cancer cells. Described the principle and applications of pH meter, centrifuge, chromatography and electrophoresis. Understood the theories of classical genetics and blood group inheritance in man. Described the genetic variation through linkage and crossing over, chromosomal aberrations and sex determination. Understood the genetic defects and inborn errors of metabolism and genetic counseling. Protozoa to annelida & cell Understood the anatomy and physiology of invertebrate biology animals by dissection. **Arthropoda to echinodermata** Described the structural study and mounding of organs. and protochordata & genetics -i Came to knowing the rules of taxonomy and the (paper iii & vi) principle of animal classification. Understood the diversity morphology, biological characters and taxonomical importance some selected museum specimens of different animal groups. Acquired knowledge of principles and working mechanisms of microscopes. Understood the mechanism of mitosis and meiosis. Gained slide preparation to observe of Giant chromosome, epithelial and blood cells. Described the structural study and mounding of organs. Came to knowing the rules of taxonomy and the

	principle of animal classification.
	Understood the diversity morphology, biological
	characters and taxonomical importance some selected
	museum specimens of different animal groups.
	Understood the anatomy and physiology of invertebrate
	animals by dissection.
	Understood the inheritance of Mendelian traits by direct
	observation among students.
	 Acquired knowledge skill development and observation
	of blood group identification.
	Understood of the mechanism of phenotypic expression
	in Drosophila.
	Gained genetic knowledge on the observation of
	specimens and models.
VERTEBRATE ZOOLOGY	• Identified the taxonomic status of the entire chordates.
(Paper VII & IX)	• Imparted the knowledge on ecology of some important
	fishes, amphibians, reptiles, birds and mammals.
	• Impart knowledge in comparative anatomy and
	development systems of chordates.
	Make able to discuss some and very important
	phenomena in Chordates.
	• Know about the conservation and management
	strategies of the chordate fauna.
	 Described the structural study and mounding of organs.
	• Came to knowing the rules of taxonomy and the
	principle of animal classification.
	• Understood the diversity morphology, biological
	characters and taxonomical importance some selected
	museum specimens of different animal groups.
	Understood the anatomy and physiology of vertebrate
	animals by dissection.
	 Understood the process of development of animals.
	Understood the process of organogenesis of selected
	organs, development of extra embryonic membrane and
	the nature and physiology of placenta.
GENETICS -II	Understood the molecular structure of genetic materials
(Paper VIII & X)	and understood the mechanism of gene expression and
	regulation character formation.
	Described the knowledge of recombinant DNA
	technology.
	Understood the tools of gene manipulation and gene
	transfer.
	Knowledge of construction and labeling of molecular
	probe, construction of genomic library and protein
	engineering.

	 Understood the techniques of recombinant DNA technology and its applications. Came to know about the techniques and applications of human genome projects. Attained knowledge the history, branches and scope of biotechnology and gene transfer technique. Understood the recombinant technology, gene integration into the vector and with host genome and creation of transgenic animals. Attained knowledge about in-vitro fertilization and embryo transfer. Understood the principle and applications of biotechnology techniques. DNA finger printing, plotting technique micro array. Described the applications stem cells and gene therapy and biotechnology devices.
ANIMAL PHYSIOLOGY (Paper XI & XIII)	Understood about the composition of food and mechanism of digestion absorption and assimilation.
(rapel Al & Alli)	 mechanism of digestion absorption and assimilation. Attained knowledge of respiration and excretion and understood the mechanism of transport of gages and urine formation. Described the mechanism of circulation and composition of blood.
	 Knowledge of neuromuscular coordination and the mechanism of osmoregulation in animals and endocrine system and their function are attained.
	 Understood the menstrual cycle and the role of contraceptive in population control.
	 Attained knowledge of qualitative analysis of macromolecules, excretory products, blood glucose and cholesterol.
	Understood the enzyme reaction and influence of temperature on enzyme action.
	temperature on enzyme action.Skill development for the observation of blood cells and
	haemin crystals.Understood the working principle and applications of
	physiological instruments.
	 Attained knowledge on the observation of preserved specimens and instruments of sericulture and fisheries.
BIOCHEMISTRY & ENDOCRINOLOGY (Paper XII &	Comprehended the energy source, chemical bonds and the principles of thermodynamic understood the importance of acid base balance.
XIV)	 Attained the knowledge of macromolecule such as carbohydrates, protein and fat, their types and significance.

	 Understood the knowledge of cholesterol and its biological significance. Described the enzymes, mechanism of enzyme action and factors affecting the enzyme activity. Understood the types and importance of vitamins Described the principle and applications of pH meter, centrifuge, chromatography and electrophoresis. Attained knowledge of qualitative analysis of Proteins, Carbohydrates and Lipids. Attained knowledge of qualitative analysis Excretory products. Understood the concept of chromatography and finding Rf values of different compounds.
ECOLOGY (Paper XV & XVII)	 Understood and appreciate the environment and ecological services of life on earth. Understood the abiotic factors of environment and biogeochemical cycle and intraspecific relationships of animals. Acquired knowledge of ecosystem, food chain, energy flow and productivity and understood pond as a model ecosystem. Imparted knowledge of habitat ecology, pollution and bioremediation of polluted environment. Attained knowledge of data collection, tabulation and presentation of data and measures of central tendency, probability and Chi-square test.
EVOLUTION (XIX & XXI)	 Understood the process of development of animals. Understood the process of organogenesis of selected organs, development of extra embryonic membrane and the nature and physiology of placenta. Came to know the inducer and inductor role in embryogenesis and knowledge about metamorphosis and the process of regeneration. Understood the theories of evolution and highlighted the role of evidences in support of evolution. Described the evolutionary knowledge through the concepts of coloration and mimicry. Obtained the knowledge about direct observation of fossils and evolutionary important specimen by which evolutionary relationship of animal groups.
FISHERY SCIENCE-I & II (Paper XVI, XVII, XX & XXII)	 Described the fisheries and fishery industries. Understood the various types and methods of aquaculture practices. Understood the physiology and reproductive

	mechanisms of important fishes.
	• Understood the modern techniques and methods of
	fishery industries.
	 Attained knowledge about important cultivable fin
	fishes, shell fishes and importance of value added
	fishery products.
FISHERY SCIENCE	
	• After Possessing of degree of B.Sc. Fishery Science,
	Can apply for the Post instructor, Research assistant,
	Biochemistry, Biologist Technician Etc.
	 Also can apply in the fisheries department of state
	government for the post of
	-
	• Inspector of fisheries/Research Assistant,
	• Sub Inspector of Fisheries.
	Assistant Directors.
	 Assistance Fisheries Director Officers. (AFDO)
	 Fisheries Extersion Officers(FEO)
	 Fisheries Development Officers (FDO)
	 Central Agencies also recruits fisheries graduate as
	technical officers and assistant Directors.
	 Marine Portal Export Development Authority (MPEDA)
	• Export- Inspection Agency EIA.
	 Coastal Agriculture Authority of India (CAAI).
	 Food Safety and Standards Authority of India (FSSAI).
	 Fisheries Survey of India (FSI)
	 Indian National Center for Ocean and Information
	Services. (INCOIS) Hyderabad
	 National institute of Oceanography (NIO)

Computer Science	
Paper	Course Outcome
BSc-I Digital Electronics	 Students will be able to learn number system with different types of conversions. Students will be able to explain basic circuit concepts and responses. Students will be able to explain the basic logic operations of NOT, AND, OR, NAND, NOR, and XOR. Students will be able to interpret logic functions, circuits, truth tables, and Boolean algebra expressions. will be able to interpret logic functions, circuits, truth tables, and Boolean algebra expressions. will be able to apply the laws of Boolean algebra to simplify circuits and Boolean algebra expressions. Students will be able to use the methods of systematic reduction of Boolean algebra expressions including Karnaugh
	maps.Students will understand the basic electronics of logic circuits

	 and be able to use integrated circuit packages. Student will be able to model, analyze, and test a digital circuit using a computer software application Students will demonstrate understanding of flip-flops, one-shots, and oscillators
	 Students will be able to analyze, build, and troubleshoot counters Students will be able to analyze, build, and troubleshoot shift registers
BSc.II Adv C programming	 Students are able to- Read, understand and trace the execution of programs written in C language. Write the C code for a given algorithm. Implement Programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor. Write programs that perform operations using derived data types. To make the student learn a programming language. To learn problem solving techniques. To teach the student to write programs in C and to solve the problems
BSc.III Basic of android o.s	 Name of the paper:- Software Engineering. This paper helps the students to learn and have an ability to apply knowledge of mathematics, science, and engineering Fundamental knowledge in mathematics, computer Science, and programming and computer systems. Ability to design and conduct experiments, as well as get the job to analyze and interpret data Basic knowledge and understanding of the analysis, synthesis and design of complex systems. Ability to design a system, component, or Software engineering principles and techniques. Learn the software life cycle phases (project management, requirements engineering, software design, prototyping and testing). Create and specify a software design based on the requirement specification that the software can be implemented based on the design. Get familiar with UML (modeling language for analysis and design). Make a testing plan for the software.
	BCS
Paper	Course Outcome
BCS-I Statistical Method	 Students will summarize data visually and numerically. Students will frame problems using multiple mathematical and statistical representations of relevant structures and

	relationships and solve using standard techniques.
	• Students will clearly communicate quantitative ideas both
	orally and in writing to a range of audiences.
BCS-II Ddata base management system	The learner will be able To describe data models and schemas in DBMS
	To understand the features of database management systems and Relational data model
	• To understand the functional dependencies and design of the database
	• To understand the concept of Transaction and Query processing
	 Helps the students to create a database and query it using SQL, design forms and generate reports.
	• Understand the significance of integrity constraints, referential integrity constraints, triggers, assertion
	Student can become a database administrator.
BCS-III Basics of computer graphics	• Students will able to list the basic concepts used in computer graphics. Types of graphics devices
	To introduce the use of the components of a graphics system and become familiar with building approach of graphics system components and algorithms related with them with graphic functions
	• To learn the basic principles of 2 -dimensional computer
	graphics.
	• To implement various algorithms to scan, convert the basic geometrical primitives, transformations, area filling, clipping.

Mathematics	
Paper	Course Outcomes
Differential Calculus	 Prerequisite, Function, Limit and Captivity. Differentiation. Successive Differentiation. Mena Value Theorems. Partial Differential operators. Acquired to Different operation on functions Important of function and its properties Ability to under the operation of different kind of function Competency developed Apply knowledge of function as a basic tools to higher
	MathematicsAvailable to apply and recognize knowledge to solve
	differentiation. • Applying knowledge of Differentiation to nth derivation terms

	Recognizing different types of severable variable file.
Differential Equation	Knoweledge gained Prerequisite, ordinary and partial different equations, order and degree & Types. Equation of first order and the first degree. Linear equation with constant coefficient. Linear equation with variable coefficient. Excel differential equations of particular forms Ordinary different equations with more than too variables Particular differential equations. Skilled gained Reorganization of types of differential equation order and degree of differential equations ordinary differential equation with constant and variable coefficient Exact and Particular form Introduction to partial differential equation Competency developed Solution of Differential equation Uses and application of ordinary differential equation Type of differential equation with constant and variable coefficient Application of two or more than two variable of differential
G T	equation
Semester II Integral Calculus	Knowledge gained Method of integration, Reduction formula Integration of algebraic ration function Integration of trigonometric function Definite integral as limit of a sum Areas of plane Region Rectification, Length of plane curves Volumes and surfaces of revolution Integral Transformation Skilled gained Type of Integration Understanding the structure of problem and a method of Solution Different type of function and its integral solution Solution of Area, Volume and Surfaces of Revolution Transformation Competency developed Applying the Reduction Method and solving Polynomial

	aquations
	equations.
	Higher power of Trigonometric function and its solution. From January 1 Theorem.
	Fundamental Theorem
	• Find the Areas, Volumes and Surfaces Revolution of
G	Structural surfaces.
Geometry	Knowledge gained
	The Plane
	Right Line
	• Sphere
	Cones,Cylinder
	The Coincoid
	Skills gained
	Three Dimensional Geometry
	 Relation Between The Line and plane
	 Properties of Sphere
	Application to conical Form
	Competency developed
	 Uses and Application of three dimensional Geometry
	 Properties of conic section
	 Behavior of plane passing through conic section
	Application of line, Plane, Sphere and Cylinder
Semester III	
Number	Knowledge gained
Theory	Divisibility Theory in the integer
•	Primes and their Distributions
	The theory of congruence
	Fermat's Theorem
	Number Theoretic Functions
	Euler's Generalization of Fermat's Theorem
	Skilled gained
	Behavior of Number system
	Uses of Number and its essential application
	Application of Number system in day to day life
	Competency developed
	Acquired to Process to apply Number System in a Compact
	way
	 Development of writing a Algorithms
	Basic Fundamental properties of arithmetic behavior
	Fermat theorem, Eulers Theorem and some other well known
	theorems
Integral transform	Knowledge gained
	Beta and Gamma Function
	Laplace Transformation
	 Inverse Laplace Transformation

	Applications of Differential Equation
	Fourier Transformation
	Skilled gained
	 Transformation and its Properties
	Higher order Factorial process
	 Properties of Definite and indefinite integral
	problems related to ordinary differential equations
	Sine and Cosine Transformation system
	Competency developed
	Uses of Integral system
	Application of Beta and Gamma function
	Relation between integral equation and Beta, Gamma function
	Transformation of system from one domain to another domain
	Application of transformation by using Trigonometric
	properties
Mechanics-I	knowledge gained
	 Forces acting on a particles
	Equilibrium of forces acting on a particles
	Forces acting on a rigid body
	Centre of Gravity
	Skilled gained
	Force acting on a particle
	• Properties of states
	Law of forces in a direction and it state
	 Equal and opposite reaction of force on the particles
	Competency developed
	Types of forces and its states
	 Like forces, parallel forces and its conditions
	Weight acting on the particles
	Relation between force and centre of gravity
Semester IV	,
Numerical Method	Knowledge gained
	Solution of Algebraic and transcendental equation
	Curve fitting and Approximation
	Solution to linear system of equations
	Numerical solution of ordinary differential equation
	Skilled gained
	Method of solving a polynomial equations
	Tabulation of Data
	Behavior of system of equation
	Solution of system of equations
	Numerical solution to Differential equation
	Competency developed
	Different methods of solutions

	Prediction of data analysis
	 Uses of system of equations
	 Solving Ordinary Differential equation
Partial	Knowledge gained
Differentail	
Equation	Prerequisite (Partial differential equation) Postial differential equations of order and (linear equation)
Equation	Partial differential equations of order one (linear equation) Linear Portial differential aquations
	Linear Partial differential equations Partial Viscontial equations
	 Partial differential equations of second order Skilled gained
	Method of differential equation
	Solution of Partial differential equation
	Linear and Non-linear solution of Partial differential equation
	Competency developed
	Known to solve servable variables function
	Complete and particular solution
	Linear and non-linear solution based upon various methods
Mechanics-II	Knowledge gained
	 Kinematics and dynamics of a particle in two dimensions
	Kinetics of a particle
	 Motion of a projectile and motion in a resisting medium
	Central Orbits
	Skilled gained
	Effect of energy
	 Efficient uses of energy with minimum afford
	 Types of projection
	Competency developed
	 Physical properties of vector quantity
	Law of Motions
	 Projection and type of projectile
	Gravitation effects on object.
Semester V	
Real analysis(I)	Knowledge gained
	 Prerequisite, Operation on sets
	• Functions
	Sequence of real Numbers
	 Series of Real Numbers
	 Jacobians
	Skilled gained
	 Operation on the functions
	 Properties of sequence in real numbers
	 Series and its solution
	Competency developed
	 Ability to handle the functions
	 Solution technique of sequence and series

	Mertic spaces, continuity of metric spaces
Abstract Algebra (I)	Knowledge gained
	Group theory
	Subgroup
	Normal and Quotient Group
	Homomorphism, Automomorphism
	Skilled gained
	 Solving problems by using concept of group theory
	Understanding the nature of problem
	Ability to understanding types of mapping
	Competency developed
	Facility of understanding the natural nature of algebraic
	problems
	 Understanding basic theorem and properties of fundamental
	elements
	Nature and method of Mapping
Ordinary differential	Knowledge gained
equation	Preliminaries
	Linear equation of first order
	 Linear equation with constant coefficient
	Skilled gained
	 Handling of complex number and polymial solutions
	 Linear First order differential equation
	 Equation with constant coefficient
	Competency developed
	 Solution of linear equation in one variable
	 Equation with constant coefficient
	 Solution to the system of nth order linear equation The
	convergence related properties
	Uses of metric space
	Fundamental properties and theorem of calculus
Semester VI	
Analysis (II)	knowledge gained
	Connectedness, Completeness and Compactness
	• Calculus
	Fourier Series
	Skilled gained
	 Properties of finite and infinite sets.
	Application and used of metric spaces
	Fundamental theorem and properties of calculus
	 Application to infinite and finite sum
	Competency developed
	 Ability to solve the sequence and series of infinite terms
	The convergence related properties

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	Uses of metric space
	 Fundamental properties and theorem of calculus
	 Ability to solve the convergence and divergence of series
	 Properties and important of metric spaces
	 Application of sine and cosine series
Abstract Algebra (II)	knowledge gained
	Vector spaces
	• *Modules
	Skilled gained
	 Properties of scalar and vector quantities
	 Uses of abstract from concrete and its solution with vector
	spaces
	 Linear system of equation and its dependability
	Competency developed
	 Solving the linear system equations
	 Vector space, dependence and independence
	 Application and its properties of normed linear spaces
Ordinary differential	Knowledge gained
equation (II)	 Linear equation with variable coefficients
	 Linear equation with Regular singular points
	Skilled gained
	 Solution of initial valve problems
	 The Wronskain and linear independence and dependence o
	differential equation
	Legendre equation
	Euler's and Bessel's equation
	Competency developed
	 Handling of initial value problems and its uses
	 Homogenous and Non-Homogenous system of ordinary
	differential equation
	Point of singularity
	 Application of Euler's and Bessel's Function

B.A.	Political science
Paper	Course Outcomes
I BASIC CONCEPTS OF POLITICAL SCIENCE	 After completion of this course students should be able to: Analyzing what is Political theory and explaining the Meaning nature and scope of political theory. -Explaining the meaning and definition of Government, it's organs, legislature, Executive and Judiciary.

	 Describing the meaning, types of citizenship and method of acquisitions. Understanding the meaning and features of Democracy, it's merits and demerits. Assessing the theories of State (Origin, Nature, Functions): Explaining the Concept of State Sovereignty: Monistic and Pluralistic Theories. Analysing the changing concept of Sovereignty in the context of Globalization. Understanding basic concepts of Liberty, Equality, Rights
	and justice
SEM-I,II B.A I Year GOVENMENT AND POLITICS OFMAHARASHTRA	 Introducing the historical and political background of Maharashtra. Examining Sanyukt Maharashtra Movement and state Reorganization Commission.
	• Studying the role of cooperative movement, peasant
	Movement, Dalit Movement and Feminist movement
	 Assessing the historical background of Pancreatic Raj System with reference to Maharashtra.
	 Studying the Ideology and programme of political parties and their role in Democracy
SEM-III, IV B.A. II Year	
INDIAN GOVERNMENT AND POLITICS	 Examining the Fundamental Rights and Duties of Indian citizens and its significance. Also to study status of Directive Principles of state policy. Looking at the Constitutional Institutions with focus on the functions of Attorney General and Comptroller and Auditor General of India. Critically analyzing the important institutions of the Indian
	 Union: the Executive: President; Prime Minister, Council of Ministers. The legislature: Rajya Sabha and Lok Sabha. Analysing budgetary process and explaining parliamentary committees public Accounts committee and Estimate committee . Evaluating the role of various forces on Indian politics: religion; language; caste; tribe; regionalism; business; working class and peasants.
	 Evaluating the Electoral Process in India with focus on the Election Commission:
SEM III, IV. B.A. II. YEAR	
INTERNATIONLRELATI ONS	 To understand the meaning nature and evolution of International Relations, studying its scope and significance. To analyze the Idealist and Realist approaches for the study of international relations

	 Examining Indian Foreign Policy: Basic Principles, Evolution and Bilateral Relations. Evaluating the Determinants of National power and national
	interest.
	 Studying the developments in third world countries in post world war II era like NAM, ASEAN, SAFTA and SAARC, OPEC, OAU, West Asia-Palestine
	 To acquaint with the international organizations and their member nations.
	 To identify various issues and challenges in international relations
	 To analyze the international security Arms Race. Arms control and Disarmament.
	To understand the emerging area in international relations
SEM .V, VI B.A.III YEAR	
WESTERN POLITICAL THOUGHT	 Introducing western Political Thought with focus on Aristotle and Plato's Political ideas and their contributions. Critically examining Machiavelli's political thoughts, Hobbes as the founder of the science of materialist politics; Locke as the founder of Liberalism with focus on his views on natural rights, property and consent. Rousseau's views on Freedom and Democracy; Bentham's Utilitarianism; and John Start Mill's views on liberty and representative government. Explaining Dialectical Materialism and Historical Materialism with special reference to relationship between base and superstructure. Analyzing the concept of class struggle and surplus value. Discussing Marx's views on State and Revolution.
SEM V VI B A III VEAD	
SEM .V, VI B.A.III YEAR MODERN POLITICAL THOUGHT	 Tracing the evolution of Indian political thought in modern India. To understand the nature, methods and significance of
	political thought.
	 To acquire knowledge about modern political thinkers and theirs view on state craft.
	 Analysing the nationalist thought of Raja Rammohun Roy and also as an Architect of Indian Renaissance, along with his social, political and religious views.
	 To understand the political religious and social views of Dayanand Saraswati.
	 Describing the Social ,Liberal and Nationalist ideas of Gopal Krishna Gokhale
	 Lokmanya Tilak's views on Nationalism, Politics and Social

	 Analysing the Gandhian views on religion, satya ,ahimsa,satyagraha,and concept of ramrajya. Estimating the contribution of Maulana Abulkalam Azad's views on Religion, politics,Hindu-Muslim unity and synthesis of Nationalism. Describing the contribution of Jawaharlal Nehru's views on Nationalism, Democracy and socialism, secularism and Internationalism To understand the concept of radical humanism, radical democracy and critique of Marxism by M.N.Roy. Describing the movements against caste and untouchability, Ambedkar's views on Social Justice and the depressed classes as well as his views on democracy and economy. To acquire knowledge about the political thoughts of J.P.Narayan and the concept of Total revolution.
SEM .V, VI B.A.III	
YEAR.POLITICAL IDEOLOGIES	 The study of political ideologies gives the student a window through which to view complex political phenomena. This course examines the origins and impact of ideologies on the development of societies. To study the meaning ,development, features and the criticism of the Major ideologies such as Nationalism, Liberalism, Conservatism, Anarchism, Marxist theory, Socialism, Marxism, Fascism, Nazism, Feminism and Environmentalism Explain the philosophical and intellectual roots of contemporary political ideologies. To Examine and analyze the conditions that create the rise of ideologies. To interpret and analyze political ideologies as they apply to modern political problems. To apply their knowledge of ideologies to current political issues.

History	
Course Outcomes	
After completion of this course students should be able to:	
SEM-I, BA I year	Course outcome
Paper no.01 : Shivaji and his times (a.d 1630-a.d 1707)	 Understanding the nature and development of Maratha power. Understanding the concept of History, socio-religious, political and geographical conditions of Maharashtra. Knowledge of Marathas struggle for swaraj, their wars, peace

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	 treaty, sacks etc. Analyzing of Social, Political, Economic and Religious Condition. Evaluation of Historical Knowledge or Information. History Knowledge is useful to built their today and future. Develop Interest to visit places of Historical Interest, Archaeological sites. Development to read local document, maps, and chart etc. The study of Marahta history help to impart moral education. Maratha history install the feeling of patriotism in the hearts of the students.
SEM-I, BA I YEAR	of the students.
PAPER NO.02 : History of Modern Maharashtra (A.D 1818 to A.D 1905)	 Understanding the socio-religious and economic conditions of Maharashtra. Analyzing the early phase of British Rule, Administration, education, press activities of Christian missions. Knowledge of early socio-religious reformers. Knowledge of earearly resistance to colonial rule. Information about national movement in Maharashtra. Evaluating the work of Different political organisation, Association oar sabhas in freedom movement Able to play active roles in different originations and Association. History installs the feeling of patriotism, idealism, and morals in hearts of the students. Prepare for various types of competitive examinations. Evaluating the Electoral Process in India with focus on the Election Commission:
SEM-II, BA I YEAR	
PAPER NO.03: History of Marathas (A.D 1707 to A.D 1818)	 Understanding the foundation of expansion and transfer of Maratha Power. Knowledge about the Transfer of Maratha power, and achievement of Peshwas. Analyzing the third Battle of Panipat, Causes and Consequences. Evaluating the role of Different Peshawa. Evaluating the causes of declined of Maratha power. Criticize the Peshwas administration, social structure religion and judicial systems of peshwas. Prepare for various types of competitive examinations. History installs the feeling of patriotism, idealism, and morals in the hearts of students.
SEM-II, BA I YEAR	
PAPER NO.04: Twenthieth	Understanding the National Movement and Revolutionary

Century Maharashtra (A.D 1905 to A.D 1960)	 Malyzing the National Movement from 1920-1947 AD Knowledge of Social Movemeent i.e Non-Brahmin Movement, Dalit Movements and Education. Analyzing the Hyderabad Freedom Struggle. Knowledge of "Making of Maharashtra State", and Independent Bombay State. Knowledge about the samyukta Maharashtra Movement. History installs the feeling of Patriotism in the hearts of pupils. Students develop the ability to think critically and historically when discussing the past. Prepare for various types of competitive examinations.
SEM-III, BA II YEAR	
PAPER NO.05: History of Early India – V (upto B.C 300)	 Understanding of Religions and Secular Litrature, Foreign Accounts, Archaeology, Numismatic Sources,. Knowledge of Stone Culture, Harappa, Civilization and Town Planning. Information of Socio-Religious and Economic Life of Harappa Civilization. Analyzing the Vedic Culture of early and later phase. Understanding the religious movement in India. Evaluating the Janapadas and Mahajanpadas. Criticize the Economy, Administration, Art and Architecture of Mahajampadas. Prepare the students for various types of competitive examinations.
SEM-III, BA II YEAR	
PAPER NO.06: British Rule in India (A.D 1757- 1857)	 Understanding of advent and foundation of British rule in India. Understanding the Political Condition of India during 18th Century. Knowledge about the review of administrative polices of colonial rules. Evaluating economic policy of the colonial rule. Criticize the expansion and consolidation of British rules. Analyzing the uprising of 1857. Students applies relevant historical fats and context. History installs the feeling of patriotism in the heart of the students. Prepare for various types of competitive examination.
SEM-III, BA II YEAR	, , , , , , , , , , , , , , , , , , , ,
PAPER NO.07: History of	• Understanding and distinguish between primary and

Mughal India (AD 1526secondary sources. AD 1757) VII Students identify and Evaluate Evidences. Knowledge of a brief survey of political History of Mughal Period. Knowledge of Mughal Administration. Evaluating the civil, Military, Judiciary administration. Knowledge of Economic Development in Mughal Period. Understanding of Social and Religious life in Mughal period. Knowledge of Art and Architecture of Mughals. Knowledge of Arts and Architecture of Mughals Prepare for various types of Competitive Examination SEM-IV, BA II YEAR PAPER NO.08: History of Students will understand and distinguish between primary and India (BC 300- AC 650|) – secondary sources, and identify and evaluate evidence. VIII Knowledge of the brief survey of political changes in mention period. Studying in invasions of Sungas, Kanvas, Allexanders and about other rulers. Understand the Socio-Economic life of people. Students understand the teaching and ideologies of different religions and interpretive differences. • Critically examining the development of Arts, Architecture. • Knowledge and introduction of languages and literature i.e Sanskrit, Prankrit, Kannad and Sangam. Prepare for various types of competitive examinations. SEM-V, BA III YEAR PAPER NO.09: Understanding the definitions, nature, scope and kinds of Histography – IX History. • Critically examining History as a Sciences and History as an Knowledge of History and its different branches of History. Evaluation and Classification of sources, Authenticity and Credibility. Discussing the modern thinkers of History and their ideology. Critically examining the uses and abuses of History. Studying history research method. Students applies interpretation based on different categories on analysis. Students will distinguish between primary and secondary • Prepare for various types of competitive examination. SEM-III, BA II YEAR

PAPER NO.06: British Rule in India (A.D 1757- 1857)	 Understanding of advent and foundation of British rule in India. Understanding the Political Condition of India during 18th Century. Knowledge about the review of administrative polices of colonial rules. Evaluating economic policy of the colonial rule. Criticize the expansion and consolidation of British rules. Analyzing the uprising of 1857. Students applies relevant historical fats and context. History installs the feeling of patriotism in the heart of the students. Prepare for various types of competitive examination.
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English	
Paper	Course Outcomes
B.A I/ B.Sc I Compulsory Learning language Skills-I/II	 Prose, Poetry Grammar, Précis and Paragraph writing. This paper enhances the basic abilities of speaking reading and writing in English. Grammar unite includes Parts of speech, noun verbs adjectives etc. which help students to use English languages in appropriate way. Précis helps in comprehension and logical connections of thoughts and paragraph writing helps in writing answers. Apart from this sentence arrangements, Direct indirect speech, Para completion, usage of articles are part of MPSC syllabus, (group B) written exams.
B.A. I/ B.Sc I Additional I/II	 Paraphrasing, expansion, letter writing and Essay writing. Animal farm (fable) Naga Mandala (mythical drama). The section on writing composition helps students to enhance their writing abilities. They learn to write formal and informal letter and applications. This will help them in their future prospects for jobs. Paraphrasing and expansion helps them to understand the source of proverbs and write it in own words. It expands vocabulary and knowledge of language.
B.A I Optional I & III	 They will gain knowledge of speech sounds, correct pronunciation and intonation. They can know the correct pronunciation of words

The Structure of English	through phonetics.
The Suddenie of English	 They will get a knowledge of advanced grammar Students will be able to impart accent and voice training
B.A I Optional II & IV Reading Literature	 Poetic type, lyric, sonnet, novel ,Shakespearean sonnets, The Guide(R.K Narayan) Drama tragedy comedy, ode, keats odes, Arms and The Man(G.B Shaw) This paper includes basic forms of literary genres, its origin, history, structure and subject matter. This paper also discusses the purpose of teaching novel drama and different forms of poetry. This paper helps students to understand and identify different types and techniques of writing. This will be very helpful in creative writing. Students learn to write the basic technique of poetry short stories and drama.
	Sem III & IV
B.A. II Compulsory Learning Language Skills-II	 Students will be able to develop a taste for short stories and novel through prose. They will learn to appreciate poetry. They will improve their writing skills. Students can converse in English and frame dialogues in English. They will acquire an understanding of basic grammar.
B.A II Additional III& IV	 The students will be able to understand the difference between general literature and world classics. Through stories of James Joyce they will understand modernism and its features. They will understand life in Dublin in early 20 century and establish its contemporaneity with the present They will understand the various narrative techniques. They will be able to write formal and informal letters They can write resume. They will improve their understanding of situational English.
B.A. II Optional V &VII Literature in English-1550-1750	 Essay ,Epic, Shakespearean tragedy ,feature of restoration literature, Bacon's Essay, Julius Caesar , The Rape of Lock, Robinson Crusoe.
	This paper helps students to understand the origin history

	and different types of essay. Writing essays are the part of student's curriculum from very beginning but this unit polishes their skills of writing. They will also learn different types and this will help them in competitive exams. This even help student writing and constructing answers in exams. Essay writing and learning the details of travelogue will help them in essay writing competition, and essay writing is also important part of UPSC civil service Main Paper I.
B.A II Optional VI & VIII Literature in English-1750-1900	 The students will be introduced to the different ages of English and be introduced to the literary aspect of the language they have been studying. They will begin to understand the origin of English language, literature and the different ages and the significance of it. The introduction of classic British writers will enhance their mastery on literature. The introduction of classic British texts will enhance their proficiency in language. The study of literary backgrounds will input and encourage researching qualities in the students.
	Sem V & VI
B.A III Optional IX & XIII Twentieth century English Literature	 Modern Poetry , Drama and Fiction Poems of T.S Eliot and W.B Yeats, LITERATURE OF D.H Lawrence, John Osborn, Kingsley Amis, G.B Shaw. As the objective of this paper suggests, this paper make the students of literature understand the modern trends technique and types of literature. This paper is design to help students in preparing NET/SET exams and develop critical thinking.
B.A III Optional X & XIV Introduction to Literary Criticism & Terms	 The introduction of critics like Aristotle and Sydney. F.R. Levis and Wordsworth will create the strong ideas of what literary criticism entitles. The students will get exposed to new terminology through literary terms. On learning literary terms student will be able to critically analyze any text they come across. This paper is design to help students in preparing NET/SET exams and develop critical thinking.
B.A III Main XI(B) & XV(B)	 The students will get exposed to Indian writers who write in English They will understand the importance of the Indian brand

Indian Writing in English	of English They will appreciate the prose written by Indian writers	
	They can get of Indian political and cultural history	
	through the texts	
	 They will be encouraged towards research in Indian writings. 	
B.A III	The students will be able to understand the literary	
Main	trends during the different literary ages	
XII & XVI	The students will be exposed to a variety of English	
Project Work on History of	writers	
English Literature (From	They will understand the different genres of writing	
Renaissance Age to the Age of	They can write research papers	
T.S. Eliot)	They will acquire a better critical and research aptitude	
Economics		
Paper	Course Outcomes	
P- 101 Micro economics	On completion of the course the student will be able to:	
	Develop ideas of the basic characteristics of	
	o Indian economy, its potential on natural	
	resources.	
	Understand the importance, causes and impact of nonveltion growth and its distribution translate and	
	population growth and its distribution, translate and relate them with economic development	
	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.	
	Understand agriculture as the foundation of economic	
	growth and development; analyze the progress and	
	changing nature of agricultural sector and its contribution	
	to economy as a whole.	
	Not only be aware of the economy as a whole, they	
	would understand sources of revenue, how the state	
	government finance its program and projects • Demonstrate marginal productivity theory of	
	 Demonstrate marginal productivity theory of distributions, theory of wages, identify different types of 	
	rent, illustrate different theories of interest and profile	
	 Understand how factor market works, identify the 	
	various determinants of firms demand for factor services,	
	bilateral monopoly, demonstrate monopsony in factor	
	market and factor market equilibrium.	
	 Identify the various types of investment function analysis 	
	and understand the elements of social cost benefit	
	analysis.	
P- 102 Indian economy	Develop ideas of the basic characteristics of Indian	

	 economy, its potential on natural resources Understand the importance, cases and impact of population growth and its distribution, translate and relate them with economic development. Grasp the importance of planning undertaken by the government of India, have knowledge of the various objectives, failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government. Understand agriculture as the foundation of economic growth and development, analyze the progress and changing nature of agricultural sector and its contribution to the economy as a whole.
P- 103 Price theory	 Understand the theory of production The law of returns to scale. Internal and external economies and diseconomies Study the analysis of Costs and Revenue Study modern approach to short run and long run cost curves Relation between marginal cost, average cost and total cost Understand market, its meaning and classification Study monopoly and monopolistic competition Understand the marginal productivity theory of distribution Understand pricing methods and multiple product pricing.
P- 104 Money and banking	 Understand the meaning and function of money, types of money Study the paper currency and kinds of paper currency Understand the structure of bank Study the functions of foreign banks, regional rural banks, district central cooperative banks, primary agricultural cooperative credit societies, state cooperative banks and NABARD Understand the meaning and functions of RBI Understand the meaning, structure and functions of money market and capital market in India.
P-105 Macro economics	Define and explain the process of calculating national income, identify the components demonstrate circular flow of income, analyse the various income identities with government and international trade, define the

	 Understand Say's law of market, classical theory of employment and Keynes objection to the classical theory, demonstrate the principle of effective demand and income determination. Explain the meaning of consumption, function, relationship between APC and MPC, consumption and income, concept of multiplier and analyze the theories of absolute and relative income h6ypothesis. Understand the relationship between investment and savings, demonstrate investment multiplier and understand the meaning of MEC and MEI. Illustrate the meaning of interest analyze the various theories of interest. Demonstrate the meaning and function of money, high powered money, monetary and paper system, illustrate various versions of quantity theory of money. Analyze different phases of trade cycle, demonstrate various trade cycle theories understand the impact of cyclical fluctuation on the growth of business, and lay policies to control trade cycle. Illustrate the meaning of inflation, deflation, stagflation and identify different kinds of inflation. Illustrate Harrod- Domor and Solow growth model, distinguish between economic growth and technical progress.
P- 106 Economics of development	 Know about the meaning of economic development and growth. Difference between development and growth Understand the different theories of development like Adam Smith, Malthus, Karl Marx, and Schumpeter etc. Understand different factors in development process like natural resource4, population saving and investment Study the growth models of Ragnar Nurkse, W.W. Rostow, Rosestein Rodan Study the role of agriculture in economic development Understand the role of industrialization in economic development and the role of service sector in economic development.
P- 107 Public finance	Understand the resources of finance both public and private, demonstrate the role of government to correct market failures and possible advantages of public financing

	 Attain the advantages and knowledge of public investments and other governments expenditures . understand the causes of growing public expenditures for various programmes and policies within and outside the country Understand the possible burden, benefits and distribution of various types of taxes among various classes of people , know the general trend and impact on general welfare and arouse them to suggest good and bad tax system Understand the needs of public borrowing from all possible sources to meet necessary public investment expenditures. Deliver effectively the preparation of budget and how they are passed in the house. Understand the changes in size and flexibility of state and central budget along with the role played by finance.
P- 108 Statistical method	 Organize, manage and present data Analyze, statistical data graphically using frequency distribution and cumulative frequency distribution Use discrete and continuous probability distribution, including requirements, mean and variance and making decisions. Identify the characteristics of different discrete and continuous distribution. Use the normal probability distribution including standard normal calculations of appropriate areas. Use different distribution to solve simple practical problems.
P- 109 International economics	 How the gains from trade is measured and distributed. Understand trade as an engine of economic growth Different types of tariffs and quotas and their impact in partial equilibrium analysis Understand the concept of balance of pyayments and equilibrium and disequilibrium in the balance of payment and various measures to correrect deficit in the balance of payments.
P-110 Agricultural Economics	 Sensitize the overall development and engine of growth in agriculture. Draw distinctive features of rural and urban economy on agricultural and non-agricultural which can influence the whole of economy. Learn and identify the opportunities available in those sectors such as forestry, find new investment opportunities

 to add income and employment. Understand limited resources available in the economy. Realize the need to exploit and utilize through development and improvement of production techniques. Make them aware of the rich natural endowments to achieve sustainable agricultural development, with this knowledge they can challenge the problems of unemployment, inequality, shortage of food productions, poverty and be useful to compete advanced
agricultural economics.

Sociology	
Paper	Course Outcomes
I : Introduction to Sociology	 Define Sociology and demonstrate nature, scope and subject matter of Sociology. Acquaint themselves with the basic concept of sociology like society, community, association, culture social change, social stratification etc. Perspective in Sociology: Understand and demonstrate how self develop through various process of interaction. Demonstrate how social and structural factors influence and
II Introduction to Sociology	 functionalist and conflict on individual behaviors. To understand the importance of cultural its definition and characteristic. Know the Definition of socialization and agencies of socialization and agencies of socialization. To understand its aims. To understand definition of social structure It help to instill among the students of sociology a sense of ethical and social responsibility. To know the status, role norms and values in society. Social Stratification To understand the concept and definition of social change. Understand the social change that are taken place in our society. To understand the Barriers in social change. Social Control To understand the definition of social type of social control formal and informal understand conformity and deviance.
III : Introduction to Subfields of Sociology	Define urban sociology and demonstrate nature, scope and significance of urban sociology.
	 Define rural sociology and demonstrate nature, subject matter and significance of rural sociology. To understand the definition of social psychology and

IV : Introduction to Subfields of Sociology	 demonstrate its nature, scope and subject matter of social psychology. To understand the nature and scope and subject matter of political sociology Students have to clear about meaning, scope and social anthropology. To learn and know about development of social anthropology in India. Develop an understanding of the applied sociology and its meaning. Develop an understanding of the process and trends of industrialization in India and its impact on the Indian Society. Introduce them bonds of unity in India with geographical, religious and traditions unity. To understand the forms of diversity in India and diversity f language, ethnicity, religious and tribes. To understand the value of Indian society. Know the characteristics of Indian population. To understand the quantitative problems and its factor affecting its like over population, density, migration. Define democracy and understand its characteristics. Define social justice and understand its concepts. Learn about the constitutional provision for the protection of minorities and other weaker section in India.
V: Problems of Rural India VI: Contemporary Urban Issue	 To understand the disintegration of rural families. To make aware of rural women their education and health. To understand domestic violence and dowry systems. To understand the dropout in education problem of illiteracy in India. Acquaint themselves with community health and malnutrition. To understand about the problems of landless labours. Know economy, polity, society ancient, medieval and modern India. Understand corruption in government schemes and inbedtness (Non-Indusril Finance) Define urbanization and understand why there is emergence of cities. Learn about eh demographic and migration and its factors. To understand the various social problems Various socal problem in India live, poverty, illiteracy, domestic violence etc. Make aware of violence against women, and measures taken

	 to eradicate the problems. Know about urban planning like housing and slums. To understand urban infrastructure and scarcity of space Define globalization and analyze its impact on social, economic, political and cultural spheres.
VI: Population in India	 To understand factors affecting mortality and fertility. Theories of population, density of population. Population growth and environment. To understand sex ratio and female feticide. To understand age structure and problem of aging. Key concepts of Social Demography Develop an understanding of the process and trends of preindustrial industrial and postindustrial stage in India and impact of industrialization on Indian Society. Develop awareness about urban population policy of India. To develop awareness about family welfare proramme and policies adopted to solve such problems.
VIII: Sociology of Development	 Conceptual Perspective on development To understand development and underdevelopment. To understand of sustainable development and social audit. Understand development and socio economic disparities, genders and development. Understand social, economic and cultural features of minorities other weaker section in India. To understand different view capitalist social and mixed approach. Government Schemes, problems and impact. To understand developmental issues of Marathwada, ex. Infrastructure, Education and Unemployment.
IX Sociological Traditions	 To provide information to the students with the understanding of historical, socio economic and intellectual forces of the rise of sociological theories. To provide the students with the basic understanding of emergence of sociological of thought and to know about pioneer sociologist stated theories with their contributions to sociology. Sociology as a scholarly discipline emerged primarily out of the Enlightenment thought, shortly after the French Revolution, as positive science of society. Modern academic sociology arose as a reaction to modernity, capitalism, urbanization, secularization, colonization and imperialism.

	 Understand its feature and describe and illustrate the role of theory in building sociological knowledge. To learn about different sociologist and their theory. Know about founding father of sociology in developing sociology as an academic discipline Introduce themselves to the classical theories of sociology and contributions of different thinkers in this regards.
X Introduction to Research Methodology	 To know about pure and applies research. Qualitative and quantitative research Descriptive research and exploratory research. To understand the research process like formulation of problem, hypothesis sampling and data collection. Data analyses and statement.
XIII Sociological Theories	 Understand the concept and contributions of Indian Social Thinkers in the reforms of Indian Society as well as to enhance knowledge about society. Introduce themselves to the conflict theories of different sociologists. Social conflict, violence, class conflict in industrial society. To understand the different theory like primary group, looking glass self theory. Introduce self consciousness, self and functions of self.

	Psychology
B.A I year	Outcome
General Psychology	 To provide solid foundation for the basic principles of psychology. Making familiar with the filed of general psychology. To familiarized students with eh historical trends in psychology, major concepts, theoretical perspectives, empirical findings. To provide an overview of the application of psychology. To identify that basic structure of neuron, the function of each structure and how messages travel through the neuron. Describe the role of the nervous system and endocrine systems. Identity and describe the parts of the brain. Explain how nature and epigenetic influence personality and behaviours Explain the process of vision and how people see colour and depth. Explain the basic of hearing. Describe the basic anatomy and function of taste, smell, touch, pain and vestibular sense.

Basic Concept of Psychology	 Define perception and give examples of gestalt principles & multimodal perception To understand the psychological behaviours expression and subject types of emotions. To provide solid foundation for the basic principles of psychology. To provide an overview of the application of psychology. Understand the theories, assessment and projective technique of personality. Increasing self efficiency through goal setting. To explain learning and the process of classical conditioning. Explain operant conditioning, reinforcement and punishment. To describe latent learning and observation learning. To explain the process & types of memory. Explain & give examples of forgetting and memory failure. Recognize and apply memory enhancing strategies. To describe cognition and problem solving strategies. To describe language acquisition and role language plays in communication and thought.
BA II Year	
Basic Concept of Social Psychology	 To enable student to appreciate how individual behaviours is influenced by social and cultural contexts. To enable student to develop an understanding of auctioning o groups and organization. To understand the unique features of the Indian socio cultural context. To understand how social problems can be analyzed in terms of various social psychological theories. To understand the concept of power of prejudice and racial prejudice. Acquaintance with the knowledge of consequences of prejudice. To understand the concept of aggression theories of aggressions Acquaintance with the knowledge about influences on aggression. To understand the technique to reduce the aggression. To understand the concept of personality traits, religion faith. To understand the concepts of socializing altruism. To train the students in eyewitness testimony. Understanding the concept of misinformation effects. To get knowledge about the factors influence Juror Judgements.

Psychology for living	 To enable students to make the connection between psychology and its practical application to everyday life. To train students how psychological principles can help them to face life's challenges. To enables students to relate what they are learning in class to issues that they encounter in their everyday life., such as stress, health, work personal relationship communication and self-esteem. Understand the concept of self – discrepancies. Understanding the concept of self-regulation. Understanding the nature of stress, types of stress. To get the knowledge about the factors influencing stress tolerance, monitoring the stress. Understanding the nature of constructive coping To get the knowledge about the self-control, constructive coping. To understand the concept of stress, personality and illness. To understand the effects of Drugs, habits lifestyles and
BA III Year Abnormal Psychology Leadership in Organization	 Health. To understand the concepts of DSM and ICD-10 Understanding the problem of labelling. Understanding the causes of abnormal behaviour i.e necessary, sufficient and contributory causes. Understand the brief history of abnormal behaviour and panic, anxiety disorders Treatment and outcomes of this disorder. Understand the brief history of somatoform and dissociative disorders, treatment and outcomes. To understand the nature and types of leadership. To understand the behavioural theories, contingency theories and contemporary issued in leadership.
-Psychopathology -Organizational Behaviour	 Understand the brief history of mood disorders. To impact knowledge about the concept of mood disorders. To enable students to develop their personality. To make students understand the nature and course of personality. Understand the brief history Schizophrenias and delusion disorders. To make students understand the nature and course of various abnormal conditions. To make students understand the nature and level of mental retardation To understand brain defects in mental retardation. To understand treatment, outcome and prevention of mental retardation

	 To impart knowledge and will needed for psychological assessment of different abnormal conditions. To understand the behaviour of individual along with organization assets. To understand the biological characteristics, personality, awareness and matching personality and job. To acquaints the measurement concepts of skill, self-awareness and matching personality and job. To understand the communication model, barriers and sources. To get the knowledge about the cross-cultural communications, skill involved in communicating. Home Science
B.A First year	Course outcome
I Family Resource Management II Food and Nutrition	 To Unable student to understand the family Resources To acquire knowledge about the management process. To develop the ability to improve the work within less time and fatigue To understand the ability how to make household budget to each income group. Student will acquire knowledge in the field. Role of food and function of nutrients. Different sources and deficiencies of nutrients. Students can improve the nutritional quality of food and nutrition.
III Human Development IV Textile and Clothing Construction V Extension Education	 To study the meaning and scope of Human Development To understand the importance of prenatal development. To know the adjust mental problems of Infancy To develop and understand the need and importance of early childhood education to gain insight into the organization and management of preschool center. To enable students for proper choice of fabrics. To impart knowledge regarding textile and clothing. To impart creative and technical skills in clothing construction. To enable students to develop skills in embroidery. To encourage entrepreneurship To acquire knowledge of various embroideries done in India with the historical background of each.
V Extension Education VI Textile and Clothing	 To understand the meaning importance and need of Home Extension Education. To impart knowledge of extension education. To understand the process of communication in development work.

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VII Human Development	 To get acquainted with the terms in extension approaches and models. Understand the importance and process of programe planning and management in extension. Develop and ability to plan, implements, monitor and evaluate extension programme. To impart knowledge about basic principles of design and painting. To enable students to know about important aspects of clothing. To impart knowledge about wardrobe planning. To impart knowledge about selection of cloth for different age group, texture and fabric to encourage entrepreneurship to impart creative and technical skills in textile.
VII Human Development	 To appreciate the sequential stages of development during late childhood. To implement the techniques for disciplining the child. To understand behavioral problems during late childhood. To aware the need and skills to developed for self-improvement. To know the development and behavior during Adolescence.
VIII Food Nutrition	 To gain acquaintance with human gastro intestinal tract. To understand the concept of an adequate diet and importance of meal planning To aware of nutrient deficiencies. To know the different method of food preservation. To be aware of the effect of food poisoning and food adulteration. To gain the knowledge about the nutrient need for various age group Learn various preservation technique and their applications.
XI Nutritional Management In Health & Diseases XV Communication Process in Home Science	 To know the principles of diet Therapy and effect of food habits To understand the role of dietician. To understand the modification of normal for therapeutic purpose. To understand the role of communication in development To know the process of communication and effects of media To enable the qualities of leadership in the students. To know the importance of programme planning, implementation of programme and evaluation.
Home Science Practical	 To know therapeutic and modified diet. To understand the diet in common ailments To understand the modification, in regular cooking

•	To develop the skill in the students about the audio visual
	aid.

Hindi		
Paper	Outcome	
B.A I Year	Understand the interaction between literature and society.	
P-I, P-II	Explain the nature language and literature.	
	Obtain the skill of literacy criticism.	
	To improve the Essay Writing skills.	
	• Illustrating the nature of literacy from like one act, play and short story.	
B.A II Year	Understanding the meaning concept and importance of function Hindi.	
	• Understanding various from of functional Hindi according to its area of application.	
	Understanding the official Language and importance of translation.	
	Understanding Veils forms of Writing in media.	
	Understanding the Concept of proof Vending.	
B.A III Year	Understanding the origin of Hindi language and its literature.	
	Analyzing the development of khariboli Hindi.	
	Understanding the Concept of history of literature.	
	Understanding the basis of the classification of Hindi	
	literature.	
	Understanding the features of Adikal bhaktii kal Riti kal and Adhunik kal in Context of socio-cultural and Political	
	Condition of that period.	
	Identifying the eminent Hindi writers of each period.	
	Understanding the literary trends of each kaal.	

Urdu	
B. A. First Year	Outcome
	Urdu Nasr ka Umumi Taaroof
	Muqtalif asnaafe nasr ka mutaala
	Sahi aur acchi Urdu smajhne aur bolne ki slaahiyat paida
	karna
	Urdu ki muatalif asnaafe nasr ka mutaala
	Mutaala matan nasr
	Kisi aam adabi masherati saada wa sales baa mahwera Urdu
	Tehrir karna
	Mazmoon nigari ki mashq
	Scienci siyasi ilmi wa adabi tanziya aur mizhiya mauzu par
	400 alfaz mazmoon likhna
	Afsanvi adab se dilchapi paida karna

B. A. Second Year	 Urdu adab ki nasho numan mein novel ki ahmiyat aur rifdiyat ko waze karna Sinfe adab ki nasho numan mein hissa lene wale mashirati, tahzeebi anaasir ki nishandahi karna Novel ka fan aurr technique aur uske ajzaye tarkibee ko waze karna Urdu mein novel nigari ke agaaz wa irteqa se bahas karna Dastan aur novel ka farq zaher karna Nisaab mein shamil novel Umrao Jaan Ada ka Tafseeli aur tanqeedi mutaala karwana Mirza Muhammad Haadi Ruswa ka bahaesiyate novel nigar taaruf pesh karna Nazm nigari ki ahmiyat ko waze karna tulaba mein taqliqi salahiyat ko parwan chadana Nazm go shuora ki nazm nigari ki aham qusoosiyaat ko waze karna Urdu nazm ka irteqa shumali hind aur junubi hind mein tafseeli jaayeza lena Nisaab mein diye gaye nazm go shuora ka matani mutaala karna Urdu mein qitaa nigari ke aagaaz wa irteqa se bahas karna Masnavi ba haisiyate sheree sinf tulaba ko wqif karwana Ghazal ki ahmiyat ifaadiyat aur uski manviyat ko waze karna Masnavi ke qulaasa, tajziya aur tabsera waze andaaz mein bayan karna Ilm-e-bayan, taarif aur misaal se tulaba ko waqif karwana Nisaab mein shamil masnavi Sehrul Bayan aur Gulzare Naseem ka tafseeli mutaala karwana Shamile Nisaab Ghazal go shuora se waqifiyat karwana
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D. A. Sacond Vest	
b. A. Second Tear	
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	•
	Ilm-e-bayan mein tashbi, mushba, mushbabe, mustarla aur majaze mursal ko wazahat ke sath pesh karna
	Nazm nigari ki ahmiyat ko waze karna
	Marsiya Qaseeda aur Rubayi ke qulase tajziye tafseere se tulaba ko waqif karwana
	 Rubayi aagaz wa irteqa se tulaba ko mutaruf karwana
	Nisaab mein shamil nazm go shuora ka tafseeli wa matani
	jayeza pesh karna
	Shamile Nisaab marsiya go aur qaseeda go ke sath sath
D. A. Tilding IV	Rubayi go shuora ka ijmali jayeza pesh karna
B. A. Third Year	Tulaba mein inshayiya nigar ka zauq paida karna Tulaba mein inshayiya nigar ka zauq paida karna
	Inshayiya nigaron ki zindagi kea ala paheluon ko ujagar karna
	 Inshayiya tarif, technique
	- monayiya tarii, teeninque

	 Inshayiya nigaron kin inshayiya nigari ka jayeza
1	 Shamile Nisaab Inshayiyon ka tkziyati mutaala
	• Zarai Iblagh ke tawassutt se tulaba ke tajrube mein wusat
	paida karna aur tulaba ko zaman eke etebaar se Zarai Iblagh
	se waqif karwana
	• Ek zubaan se doosri zuban mein tarjuma karne ki salaahiyat
	ko ujagar karna
	 Iblagh ki ibteda, ahmiyat
	 Iblagh ke zaraye
	 Sahafat
	 Jamhoori daur mein Zarai Iblagh ki zaroorat
	• Electronics media – radio, television, internet, radio ki
	ibteda, All India Radio ka qayaam, aur Urdu majlis
	 Television ki nashiriyat Bharat mein
	 Televion aur Urdu zaban
	 Internet ki ibteda – Urdu mein internet ka istemaal
	 Tarjuma nigari ka fan aur uski qisme
	 Classroom mein angrezi se Urdu tarjume ki mashq

Master of Science (M.Sc.) Chemistry

Paper	Outcome
CHE-101 Analytical Chemistry	After completion of the course, the students will be able to
	Explain different chromatographic techniques
	Discuss basic separation techniques
	Discuss role of analytical chemistry in various fields
	Discuss the effect of pH and reagent concentration on the solvent extraction of metal chelates
CHE-102 Inorganic Chemistry	Discuss the function of essential and trace element in
	biological system
	Describe classification of point groups
	Discuss in detail the mechanism involved in electron
	transfer reaction
	Explain factors affecting stability constant
	Describe in details synthesis of anticancer agents
CHE-103 Organic Chemistry	Explain the nature of bonding in organic molecules
	Discuss various types of substitution reaction
	Explain ambient nucleophile
	Explain elements of symmetry
	Explains effect of conformation on reactivity
CHE-104 Physical Chemistry	Able to understand collision theory and can determine rates
	of reactions
	Explains thermodynamics of biochemical reactions
	Classify surface active agents
	Understand applications of polarography
CHE-205Spectroscopic method of	Understand interaction of radiation with matter

e Distinguish between different spectroscopic techniques Explain in detail photoelectron spectroscopy Able to solve numerical problems of spectroscopy To understand weak and strong field approach in metal ligand chemistry To understand magnetic properties of metal complexes Discuss electronic spectra of metal complexes Discuss electronic spectra of metal complexes Able to calculate EAN of metal complexes Discuss mechanism of ental complexes Explain general mechanistic consideration of rearrangement reactions. Discuss mechanism of elimination reactions Explain mechanism of metal hydride reduction of saturated and unsaturated carbonyl compound in ester and nitrile Understand substitution reactions Explain mechanism of solids on the basis of shapes and bonding Explain the selection rule and spin orbital coupling Discuss the properties of quantum mechanical operators Explain the selection rule and spin orbital coupling Discuss the properties of quantum mechanical operators Explain the effect of increase of voids on the crystals Explain principles of H1 NMR, C13 NMR and Mass Spectroscopy Discuss elucidation of structure by spectral methods Explain principle of ESR Spectroscopy, Hyperfine splitting, Kramer's degeneracy Explain Principle of Mossbauer spectroscopy, Quadruple splitting Explain reaction intermediates and preparation and uses of organometallic reagents Explain reaction intermediates and preparation and uses of organometallic reagents Explain asymmetric hydroxylation and asymmetric reactions Discuss uses organic reagents Explain concept of Fore radical recognition, cyclodextrins Explain concept of Fore radical reactions Describe aspects of Bio-organic chemistry and enzyme chemistry Explain concept of Fore radical reactions Describe enzyme models, chiral recognition, cyclodextrins Discuss Pericyclic and Electrocyclic reactions Describe electro-cyclisation, sigmatropic rearrangements, photofries rearrangement Discuss Retro-synthetic analysis of different molecules Discuss Retro-synthetic analysis of differen	1 '	D1 1 1 1 1 1 100 1 1 1 1 1 1
CHE-206 Inorganic Chemistry CHE-206 Inorganic Chemistry Able to understand weak and strong field approach in metal ligand chemistry To understand magnetic properties of metal complexes Discuss electronic spectra of metal complexes Able to calculate EAN of metal complexes Explain mechanism of elimination reactions Describe classification of solids on the basis of shapes and bonding Explain the effect of reach of voids on the crystals Explain the effect of increase of voids on the crystals Explain the effect of increase of voids on the crystals Explain principles of H1 NMR, C13 NMR and Mass Spectroscopy Discuss elucidation of structure by spectral methods Explain Principle of ESR Spectroscopy, Hyperfine splitting, Kramer's degeneracy Explain Principle of Mossbauer spectroscopy, Quadruple splitting CHEO-314 Organic Synthesis Explain reaction intermediates and preparation and uses of organometallic reagents Explain reaction intermediates and preparation and uses of organometallic reagents Explain mechanism of different reactions. Discuss sues organic reagents Explain asymmetric hydroxylation and asymmetric reactions Describe aspects of Bio-organic chemistry and enzyme chemistry Explain concept of Free radical reactions Describe aspects of Bio-organic chemistry and enzyme chemistry. Explain concept of Free radical reactions Describe electro-cyclication, signatropic rearrang	analysis	Distinguish between different spectroscopic techniques
CHE-206 Inorganic Chemistry Able to understand weak and strong field approach in metal ligand chemistry To understand magnetic properties of metal complexes Discuss electronic spectra of metal complexes Able to calculate EAN of metal complexes Able to calculate EAN of metal compounds Understand chemistry of metal nitrosyls and carbonyls CHE-207 Organic Chemistry Explain general mechanistic consideration of rearrangement reactions. Discuss mechanism of elimination reactions Explain mechanism of metal hydride reduction of saturated and unsaturated carbonyl compound in ester and nitrile Understand substitution reactions Explain mechanism of solids on the basis of shapes and bonding Explain the selection rule and spin orbital coupling Explain the effect of increase of voids on the crystals Explain principles of H1 NMR, C13 NMR and Mass Spectroscopy Discuss elucidation of structure by spectral methods Explain principle of ESR Spectroscopy, Hyperfine splitting, Kramer's degeneracy Explain Principle of Mossbauer spectroscopy, Quadruple splitting CHEO-314 Organic Synthesis Explain reaction intermediates and preparation and uses of organometallic reagents Explain concept of oxidation and various oxidative reagents Explain concept of oxidation and various oxidative reagents Explain concept of oxidation and various oxidative reagents CHEO-316 Photochemistry, Free radicals And Pericyclic reactions Describe enzyme models, chiral recognition, cyclodextrins Explain concept of Free radical reactions Discuss Retro-synthetic analysis of different molecules CHEO-417 Organic Synthesis: CHEO-417 Organic Synthesis: CHEO-417 Organic Synthesis: O Discuss Retro-synthetic analysis of different molecules		
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 Describe Cyclo-addition reactions Describe electro-cyclisation, sigmatropic rearrangements, photofries rearrangement CHEO-417 Organic Synthesis: Discuss Retro-synthetic analysis of different molecules 	1	Explain concept of Free radical reactions
 Describe electro-cyclisation, sigmatropic rearrangements, photofries rearrangement CHEO-417 Organic Synthesis: Discuss Retro-synthetic analysis of different molecules 	radicals And Pericyclic reactions	Discuss Pericyclic and Electrocyclic reactions
rearrangements, photofries rearrangement CHEO-417 Organic Synthesis: • Discuss Retro-synthetic analysis of different molecules		Describe Cyclo-addition reactions
CHEO-417 Organic Synthesis: • Discuss Retro-synthetic analysis of different molecules		Describe electro-cyclisation, sigmatropic
		rearrangements, photofries rearrangement
Retro-synthetic Approach • Describe disconnection approach, protecting group, C-	· ·	Discuss Retro-synthetic analysis of different molecules
	Retro-synthetic Approach	Describe disconnection approach, protecting group, C-

	 C disconnections Describe synthesis of 3,4,5,6 membered ring Discuss ring synthesis, rearrangements, photochemistry in synthesis
CHEO-418 Advanced Organic and Heterocyclic Chemistry	 Discuss five member hetero-cycles and fused hetero-cycles Describe mechanism of rearrangements and name reactions Describe fused heterocycles Explain nomenclature of hetero-cycles
CHEO-419 Chemistry of Natural Products	 Describe plant pigments and Biogenesis Explain Diel's hydrocarbon, Bile acids, hormones Explain Synthesis of Anthocyanins with mechanism Describe Terpenoids and carotenoids

Master of Arts (M.A.) English

M.A I & II English	
Paper	Course Outcome
M.A I Paper I Literature in English (1550- 1798)	 The learner community will become acquainted with the development of English literature through different ages through this course. This paper will enlighten the students about different social, political and literary periods of history and English literature. The students will be introduced and acquainted with culture, thought, literary trends and movement of the period through the prescribed text. The period between 1550 and 1798 also gave birth to some very unorthodox political ideas. To input the texts like Paradise Lost, Culture and Anarchy, Absalom and Achitophel in their text would develop proficiency in the learners to analyze the politics today.
M.A I Paper II Literature in English (1800-2000)	 The understanding of the literary works in English within the literary period of 1800-2000 will be enhanced amongst the learners through this course. The students will be exposed to the theories and the major genres of literature that emerged during this period. The students will be informed on major genres in literature as they are introduced to poetry, prose, fiction and dramas in both the semesters. Introduction to theories like Romanticism, Modernism and Post- Modernism will be beneficial to the students in Competitive Examinations like NET, SET, MPSC and UPSC.

M.A. I Paper III Structure of Modern English	 The students will gain knowledge of speech sounds, correct pronunciation and intonation. They can know the correct pronunciation of words through connected speech. They will get knowledge of advanced grammar and varieties of English. Students will be able to impart accent and voice training, formation of sentences and words.
M.A I Paper IV-B Colonial and Postcolonial Literature	 The students will be introduced to the meaning of colonialism and its impact on the colonized countries. The students will be introduced to different texts written during different countries during the period of colonization. They will also get acquainted with text which was written in the postcolonial period when the colonized countries were finally liberated. The main aim of the course is to enhance the student's understanding of colonial and postcolonial literature, resistance and representation, colonial discourses reflected in different texts written during and after the colonial times.
M.A. II Paper V Critical Theory	 The course intends to introduce the modern critical schools which have been influencing literary productions and immensely contributing to the various branches of knowledge to render the multidisciplinary face to the literary and cultural studies in the learners. It attempts to enhance the students understanding of multidimensional and multidisciplinary nature of literary texts of recent time. The course also attempts to sharpen the intellectual sensibility of the students with the confrontations of the multifaceted critical and intellectual positions of the theoreticians. It intends to acquaint students with the intrinsic, extrinsic complexities and the sharp dichotomies in socio-political and cultural situations and the corollaries of the various shifts in the literary and cultural relations and connotations in contemporary time.
M.A II Paper VI Indian Writing in English MA. II	 The course deals with the literary forms of Indian Writing in English, the students will get introduced to the Indian Writers. The learners will be familiarized with the texts and its nuances to study critically, analytically and logically. The students are introduced to poets, dramatist, fiction and non-fiction prose and novel writers of Indian origin. The students get acquainted with the history of Indian subcontinent, they get an Indian perspective in literature and are made aware of the current scenario of Indian writer. The course will enhance the learner's community with the

Paper VII English Language Teaching	 learning process, the nature and structure of language Teaching of English language in terms of more effective methodologies of classroom management, material selection and evaluation. It will acquaint the learner's community with a brief history of language teaching and detailed knowledge of methods and grammatical aspects of English language teaching and learning. Different types of methods and disciplinary techniques distinctly focusing on learner's community is introduced. The main aim is to focus on classroom management, lesson planning, material handling and rich learning experience through various presentations and interaction, especially classroom interactions. It will enable the learner's community and to develop their communicative and study skills and give them a thorough grounding in all aspects of English language learning and teaching.
MA. II Paper VIII-E Major Form: Fiction	 The course intends to familiarize the students with various trends and movements in fiction. Fiction reads the social barometer and it is the due to the nature of social culture. This helps students understand that it reflects the society and shapes of the society. Study of fiction will help the students develop the basic understanding of the genre's literary history, especially important shifts in styles and themes. Reading Fiction from the other countries can help the students to see new things in life, the similarities and differences between day to day life.