**Government Lal Chakradhar PG Shah College, Ambagarh Chowki District :- Mohla-Manpur- Ambagarh Chowki (C.G.)**

Government LCS College is affiliated to Hemchand Yadav (Durg) University, Durg.We follow the Syllabus of Hemchand Yadav University.Presently we have Following Courses:

Undergraduate Level

1. B.A (Hindi, Economics, History, Political Science, HomeScience, Sociology, Geography, English Literature)
2. B.Com
3. B.Sc (Zoology, Botany, Chemistry)
4. B.Sc.(Mathamateics, Physics, Chemistry)

Postgraduate Level

1. M.A (Economics)
2. M.A (Hindi)
3. M.A(History)
4. M.A(Political Science)
5. M.Sc (Botany)
6. M.Sc (Chemistry)
7. M.Sc (Zoology)

**COURSE OUTCOME, PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME (CO'S, PO'S & PSO'S)**

**Bachlor of ScienceProgramme**

**OBJECTIVES OF THE PROGRAMME:**

Broad objectives of **Bachelor of Science** course are:

**Knowledge and Theory –** Gaining board knowledge of science as well as indepth knowledge of atleast one subject. Development of understanding broad context of Scientific theory and practice.

**Application-** Application of appropriate methods of research, investigation and design.

**Proficiency in Technology-** Development of conceptual, analytical, quantitative and technical skills.

**Professional and Ethical Behaviour-** Development of personal and professional integrity.

**Problem Solving and Critical Thinking-** Critical evaluation of ideas and arguments by gathering relevant information, assessing its credibility and synthesizing evidence to formulate a solution.

**Environment Sensitivity –** Sensitization of environmental and sustainibility issues.

**Department of Mathematics**

**Bachelor of Science**

**COURSE OUTCOME:**

On the completion of the course, students will be able to:-

* Develop the knowledge of algebraic skill essential for the study of systems of matrix algebra, linear equations, Eigen values and Eigen vectors.
* Apply mathematical methods of Arithmetics, Algebra, Geometry and Graphs to solve problems.
* Develop the knowledge for applying the concept and principles of Differential and Integral calculus to solve problems.
* Develop the skill of computation of integral using Gauss’s, Divergence and Stoke’s theorems.
* Integrate functions of several variables over curves and surface.
* Demonstrate the knowledge of the basic concepts of Geometry.
* Solve algebraic equations of up to degree four.
* Develop the knowledge of the fundamental tools of calculus such as limit, sequence, continuity and differentiability of functions of two variables.
* Identify a general method for constructing solutions of homogeneous linear differential equations with constant coefficients.
* Distinguish between partial differential equation and ordinary differential equation.
* Solve problems of motion of a particle in rough and smooth plane.
* Develop the knowledge of Kepler’s Law of motion.
* Understand the concept of vector space and inner product space.
* Develop the knowledge of fundamental concepts of complex variables.
* Understand improper integrals.
* Understand the basic principle of Fourier series and Riemann Integral
* Describe computer programs in formal mathematical manner.
* Develop the knowledge of numerical method for approximating the solution of problems of Mathematics.

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| **MARKING SCHEME SCHEME OF B.Sc (Maths) I Year examination** | | | | |
| **Subject** | **Paper** | **Max. Marks** | **Total Marks** | **Min. Mark** |
| Mathematics | I | 50 | 100 | 34 |
|  | II | 50 |
|  | Project | 50 | 50 | 17 |

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| **MARKING SCHEME SCHEME OF B.Sc (Maths) I,II,III Year examination** | | | | |
| **Subject** | **Paper** | **Max. Marks** | **Total Marks** | **Min. Mark** |
| Mathematics | I | 50 | 150 | 50 |
|  | II | 50 |
|  | III | 50 |

**PROGRAMME OUTCOME**

On completion of this programme, students will be able to:

* Create, interpret and analyse graphical representation of functions and equations.
* Develop the knowledge of create Mathematical models to solve real-world problems.
* Understand the basic concepts, fundamental principles and Mathematical theories related to various mathematical phenomena and their relevance in day-to-day life.
* Develop the knowledge and understanding of axiomatic approaches in pure and applied Mathematics.
* Develop mathematical skill to solve problems.

**PROGRAMME SPECIFIC OUTCOMES**

**The course of B.Sc-I Mathematics is divided into 3 part :**

**PSO:01- Paper- I- Calculus**

* Calculate the limit and examine the continuity and understand the geometrical interpretation of differentiability.
* Understand the consequences of various mean value theorems.
* Draw curves in Cartesian and polan coordinate systems.
* Understand conceptual variations while advancing from one variable to several variable in calculus.
* Inter-relationship amongst the lime integral, double and triple integral formulations.
* Realize importance of Greem, Gauss and Stokes’ theorems in other branches of mathematics.

**PSO: 02- Paper-II: Algebra**

* Employ De Moivre’s theorem in a number of applications to solve numerical problem.
* Learn about the fundamental concept of groups, subgroups, normal subgroups, isomorphism theorems, cyclic and permutation groups.
* Recognize consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix using rank.
* Find eigen values and corresponding eigen vectors for a square matrix.
* Understand real vector spaces, subspaces, basis, dimension and their properties.

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**PSO: 03 Project : History of Mathematician.**

* Develop a deeper understanding of the mathematics they hare already studied by seeing how it was developed over time and in various places.
* Know the rich intellectual heritage of the country.
* Develop an appreciation of mathematics and build positive attitude toward mathematics increasing student’s motivation decreasing anxiety related the subject.
* To acquire knowledge about developmet of mathematics in ancient medieval and moderm period of history.

**The course of B.Sc-II Mathematics is divided into 3 papers:**

**PSO: 04-Paper-I- Advanced Calculus**

* Solve the Convergence of Series and Sequences with Different Tests.
* Identify and apply the intermediate value theorem, Mean value theorem.
* Verify the values of limit of a function of Two Variable, Homogeneous Function and Taylor’s Theorem for Function of two variables.
* Identify the Maxima and Minima of Function of Two and Three Variables.
* Learn the method and properties of Beta and Gamma Function, Double and Triple Integrals.

**PSO: 05-Paper-II – Differential Equation**

* Students develop knowledge in the Bessel’s and Legendre’s Differential Equation.
* Learn the methods and properties of Laplace transform and Inverse Laplace Transform, apply them to solve Linear Differential Equations.
* Identify partial differential equations of the First order, Lagrange’s Method and Charpit’s Method.
* Solve the partial Differential Equation of second and higher Order.
* Problem solving of Variational with fixed boundaries.

**PSO: 06-Paper-III – Mechanics**

* Solve the Analytics Condition of Equilibrium and virtual work, Catenary.
* Understand the force in three Dimensions, Null Lines and Dynamics.
* Solve various problems on Simple Harmonic Motion, Elastic Strings, Projectile and central orbits.
* Problem solving Kepler’s Law of Motion, Velocity and acceleration in tangential.
* Learn the Motion in a resisting medium .motion of particles of mass.

**The course of B.Sc-III Mathematics is divided into 3 papers:**

**PSO: 07-Paper-I- Analysis**

* Understand the Metric spaces, Neighbourhoods, Limit points, Interior points, Open and closed sets, Closure and interior.
* Learn the Dense subsets. Baire Category theorem. Separable, second countable and first countable spaces. Continuous functions. Extension theorem. Uniform continuity.
* Determine the Riemann integrability, Intergrability of continuous and monotonic functions with Different Tests.
* Solve the Series of arbitrary terms. Convergence, divergence and Oscillation. Abel’s and Dirichlet’s test. Multiplication of series.
* Understand Complex numbers as ordered pairs. Geometric representation of Complex numbers.

**PSO: 08-Paper-II- Abstract Algebra**

* Students develop knowledge of Group-automorphisms, inner automorphism. Automorphism groups and their computations, Conjugacy relation, Normaliser, Counting principle and Sylow's theorems, Sylow subgroup, Structure theorem for finite Abelian groups.
* Analyze and demonstrate examples of ideals and quotient rings and Use the concept of isomorphism and homomorphism for rings.
* Understand the vector spaces. Subspaces. Sum and direct sum of subspaces, linear span. Linear dependence, independence and their basic properties.
* Solve the Linear transformations and their representation as matrices.
* Solve the Inner Product Spaces-Cauchy-Schwarz inequality and Bessel's inequality for finite dimensional spaces. Gram-Schmidt Orthogonalization process.

**POS : 09- Paper -III- Discrete mathematics**

* Understand principle of mathematical induction. Inclusion and exclusion. Formal languages.
* Understand binary relation. Partial order relation and lattice. Pigen hole principle. Graph and shortest path.
* Finite state machines , equivalent machines. Analysis of algorithms . Generating functions.
* Linear recurrence relations . Homogeneous solution and particular solution Of linear differential equations.
* Lattices and algebraic structure. Boolean functions and expression. Design and implementation of digital network

PSO**: 09-Paper-III-Programming in 'C' and Numerical Analysis**

* Understand the Programmer's model of a computer. Algorithms. Flow Charts. Data Types.
* Solve the Solution of Equation Bisection, Secant, Regula Falsi, Newton's Method and Roots of Polynomials.
* Problem solving Linear Equations: Direct Methods for Solving. Systems of Linear Equations and the Algebraic Eigenvalue problem.
* Problem solving Ordinary Differential Equations: Euler, Single-step, Runge-Kutta’s, Multi-step, Milne-Simpson Methods based on Numerical Integration and Approximation.
* Solve the Monte Carlo Methods Random number generation, congruential generators, and statistical tests of pseudo-random numbers

**Department of Botany**

**Bachelor of Science :-**

**Course Outcome (CO):**

**Upon completion of course the Student will be able:**

* To acquire theoretical and Practical knowledge of Microbes, Lower and Higher Plant Genera.
* To acquire knowledge about Taxonomy, Structure, Physiology, Reproduction and Life cycle of Plants.
* To be able to identify Plants based on Morpholgical characters.
* To acquire knowledge of economically important plants and plant diseases.
* To become aware of ecological issues like Deforestation, Green house effect etc.

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| **MARKING SCHEME SCHEME OF B.Sc (Botany) I,II,III Year examination** | | | | |
| **Subject** | **Paper** | **Max. Marks** | **Total Marks** | **Min. Mark** |
| Botany | I | 50 | 150 | 50 |
|  | II | 50 |
|  | Practical | 50 |

**Program Outcome(PO)**

Major Program outcome of B.Sc Botany are to gain knowledge about:

* Structural organization and economic importance of microbes including Bacteria, Viruses, Mycoplasma, Cyanobacteria.
* Structure, development and economic importance of lower plants including Algae, Fungi, with practical knowledge.
* Structure, development and economic importance of Bryophytes and Pteridophytes.
* Structure, development and economic importance of Gymnosperms, Angiosperms and Flowering plants
* Plant physiology.
* Principles, techniques and application of genetic engineering and biotechnology.
* Environment, Ecology and Ecomonic importance of plants.

**Program Specific Outcome(PSO)**

**B. Sc. Part-I**

**PSO: 01- Paper-I:Bacteria, Viruses, Fungi, Lichens, and Algae**

* Understanding the basic microbial characteristics, structure, reproduction and economic importance of Bacteria, Virus, Mycoplasma and Cyanobacteria.
* Know the classification, characteristic features, life history and economic importance of algae with practical knowledge.
* Know the General account, classification, characteristic features, structure, life history and economic importance of fungi with practical knowledge.

**PSO: 02- Paper-II:Bryophytes, Pteridophytes, Gymnosperms and Plaeobotany**

* Know the classification, characteristic features, structure and life cycle of Bryophytes with practical knowledge.
* Know the classification, characteristic features, structure and life cycle of Pteridophytes with practical knowledge.

**Practicals**

* Practical Skills in identification of Microorganisms,Bryophyta, Pteridophyta,Gymnosperm, Cytology, Speciemen identification based on theory

**B. Sc. Part-II**

**PSO: 03- Paper-I: Diversity of Seed Plants and The Systematics**

* Understanding the characteristics, origin, evolution and diversity of seed plants.
* Know the classification, characteristic features, structure and life cycle of gymnosperms with practical knowledge.
* Understand the principles and rules of taxonomy of angiosperms.
* Knowing the salient features of classification of angiosperms.
* Understanding the diversity of flowering plants of different families.

**PSO: 04- Paper-II: Structure, Development and Reproduction in Flowering Plants**

* Understanding the basic body plan, growth and diversity in plants.
* Understanding the shoot system and root system in detail with practical knowledge.
* Knowing the morphological and anatomical structure of leaves according to adaptation with practical knowledge.
* Understand the structure, development of flower and reproduction in flowering plants in detail with practical knowledge.
* Significance of seeds.

**Practicals**

* Practical Skills in Identification and Description, Anatomy,Physiology and Embryology of Gymnosperm, Angiosperm.
* Identification of Local Flora.

**B. Sc. Part-III**

**PSO: 05- Paper-I: Plant Physiology, Biochemistry and Biotechnology**

* Know the complete physiology of plants including plant water relationship, transpiration, transport of organic substance, respiration, photosynthesis.
* Understand the properties, structure and mechanism of action of enzymes.
* Understand the metabolism of protein and lipids.
* Knowing the growth and development process in plants including knowledge of structure and function of plant hormones.
* Understanding the principles, techniques and application of genetic engineering and biotechnology.

**PSO: 06- Paper-II: Ecology and Utilization of Plants**

* Understand the environment along with water, light, soil, temperature.
* Understand the morphological, anatomical and physiological changes in plants responses to environment with practical knowledge.
* Knowledge of ecology, ecosystem, ecological pyramids, flow of energy with practicals.
* Understand the utilization of plants as food, fibres, oils, spices, medicine, beverages and rubber with practical knowledge.

**Practicals**

* Practical knowledge of Physiological phenomenon, Ecology, Biochemical analysis and Important Economically beneficial Plants.

**Master of Science:-**

**Course Outcome (CO):**

**Upon completion of course the Student will be able:**

* To acquire theoretical and Practical knowledge of Cell and Molecular Biology, Genetics, Biotechnology, Tissue culture Techniques
* To acquire knowledge about Taxonomy and Diversity of Bacteria, Virues, Fungi, Bryophyta, Pteridophyta, Gymnosperms and Angiosperms
* To acquire knowledge of Plant Physiology, Reproduction and Development
* To become aware of ecological issues like Pollution, Conservation etc.
* To acquire knowledge about Plant pathology

**SCHEME OF EXAMINATION**

**M.Sc. I SEMESTER, BOTANY**

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| --- | --- | --- | --- | --- |
| **THEORY PAPER** | **TITLE** | **MAX. MARKS** | **Internal Assessment/ seminar** | **Total marks** |
| I | CYTOLOGY | 80 | 20 | 100 |
| II | GENETICS | 80 | 20 | 100 |
| III | MICROBIOLOGY,PHYCOLOGY AND MYCOLOGY | 80 | 20 | 100 |
| IV | BRYOPHYTA,PTERIDOPHYTA AND GYMNOSPERM | 80 | 20 | 100 |

**PRACTICAL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LAB COURSE-I | BASED ON PAPER I&III | 80 | 20 | 100 |
| LAB COURSE-II | BASED ON PAPER II&IV | 80 | 20 | 100 |
| **TOTAL MARKS (Theory and Practical)** | | | | **600** |

**M.Sc. II SEMESTER, BOTANY**

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| **THEORY PAPER** | **TITLE** | **MAX. MARKS** | **Internal Assessment/ seminar** | **Total marks** |
| I | TAXONOMY AND DIVERSITY OF PLANTS | 80 | 20 | 100 |
| II | MOLECULAR BIOLOGY | 80 | 20 | 100 |
| III | PLANT PHYSIOLOGY | 80 | 20 | 100 |
| IV | PLANT METABOLISM | 80 | 20 | 100 |

**PRACTICAL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LAB COURSE-I | BASED ON PAPER I&III | 80 | 20 | 100 |
| LAB COURSE-II | BASED ON PAPER II&IV | 80 | 20 | 100 |
| **TOTAL MARKS (Theory and Practical)** | | | | **600** |

**M.Sc. III SEMESTER, BOTANY**

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| **THEORY PAPER** | **TITLE** | **MAX. MARKS** | **Internal Assessment/ seminar** | **Total marks** |
| I | PLANT DEVELOPMENT & PLANT RESOURCES | 80 | 20 | 100 |
| II | PLANT ECOLOGY – I **(E**cosystem and vegetation ecology) | 80 | 20 | 100 |
| III | BIOTECHNOLOGY-I (Biotechnology and genetic engineering of plants and microbes) | 80 | 20 | 100 |
| IV | Molecular plant pathology-I | 80 | 20 | 100 |

**PRACTICAL**

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| --- | --- | --- | --- | --- |
| LAB COURSE-I | BASED ON PAPER I&III | 80 | 20 | 100 |
| LAB COURSE-II | BASED ON PAPER II&IV | 80 | 20 | 100 |
| **TOTAL MARKS (Theory and Practical)** | | | | **600** |

**M.Sc. IV SEMESTER, BOTANY**

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| **THEORY PAPER** | **TITLE** | **MAX. MARKS** | **Internal Assessment/ seminar** | **Total marks** |
| I | PLANT DEVELOPMENT & PLANT RESOURCES | 80 | 20 | 100 |
| II | PLANT ECOLOGY – II  (Pollution and biodiversity conservation) | 80 | 20 | 100 |
| III | BIOTECHNOLOGY-II  (Plant cell, tissue culture and organ culture) | 80 | 20 | 100 |
| IV | Molecular plant pathology-II | 80 | 20 | 100 |

**PRACTICAL**

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| --- | --- | --- | --- | --- |
| LAB COURSE-I | BASED ON PAPER I&III | 80 | 20 | 100 |
| LAB COURSE-II | BASED ON PAPER II&IV | 80 | 20 | 100 |
| **TOTAL MARKS (Theory and Practical)** | | | | **600** |

**Program Outcome (PO)**

Major Program outcome of M.Sc Botany are to gain knowledge about:

* Structural organization of Plant Cell and Genetics.
* Structure, development and economic importance of Bacteria, Viruses, Algae, Fungi, with practical knowledge.
* Structure, development and economic importance of Bryophytes and Pteridophytes.
* Structure, development and economic importance of Gymnosperms, Angiosperms and Flowering plants
* Plant Metabolism, Physiology and Ecology
* Biotechnology and Genetic engineering
* Management of Plant resources and Biodiversity Conservation.
* Different plant disease, cause and treatment.

**Program Specific Outcome (PSO)**

**M. Sc.-I Semester**

**PSO: 01- Paper-I:CYTOLOGY**

* Understand the structure of cell part as cell wall, plasma membrane and cell organelles like Mitochondria, Chloroplast, Plant vacuoles, Endoplasmic reticulum, lysosome, golgi bodies.
* Knowing the techniques in cell biology: Immune techniques, in situ hybridization to locate transcripts in cell types, Electron microscope, camera lucida, micrometry- stage and ocular microme.

**PSO: 02- Paper-II:GENETICS**

* Understand the chromatin Organization, Karyotype and idiogram, banding pattern, specialized types of chromosomes; polytene, lamp brush, ß chromosomes and sex chromosomes.
* Understood the method of mapping of Bacteriophage genome, genetic transformation and transduction in bacteria, chromosomal aberration and polyploidy. Genetic recombination & genetic mapping.
* Understand the Plant breeding technique: Introduction, selection (pure line, mass, bulk), emasculation, bagging, tagging, hybridization (self / cross), mutation, resistant and susceptible, heterosis, inbreeding depression, chimera, Alien gene transfer through chromosome manipulation.

**PSO: 03- Paper-III:MICROBIOLOGY, PHYCOLOGY AND MYCOLOGY**

* Knowledge of General account, ultra structure, nutrition and reproduction, biology and economic importance of Archaebacteria, Eubacteria, cyanobacteria, Viruses, Phytoplasma and mycoplasma.
* Knowledge ofdiversified habitats, thallus organization, cell ultra-structure, Pigmentation, Perennation,Classification and evolution and development of sex and reproduction in Algae.
* Understanding the general characters of fungi, substrate relationship in fungi, cell structure unicellular and multicellular organization, cell wall composition, reproduction,heterothallism, heterokaryosis, Para sexuality, fungi as biocontrol agent, economic importance of fungi, VAM fungus

**PSO: 04- Paper-IV:BRYOPHYTA, PTERIDOPHYTA AND GYMNOSPERM**

* Know the morphology, structure, reproduction, life history, distribution, classification. General account of some specific Bryophytes Economic and ecological importance. Progressive sterilization of sporogenous tissue, Spore dispersal mechanism, Thallus organization, Progressive and reduction theory of origin and development in bryophytes.
* **Understand the** morphology, anatomy and reproduction, classification, evolution of stele. Telome theory, concept of first vascular plants, Homospory, Heterospory and origin of seed habit.
* Understand the General characters, diversity, Classification, distribution, Economic importance of gymnosperm. Structure and theories regarding origin of Paleozoic ovule and Extinct gymnosperm

**Practicals**

* Practical Skills in identification of Microorganisms, Bryophyta, Pteridophyta,Gymnosperm, Cytology, Speciemen identification based on theory, Plant breeding techniques.

**M. Sc.-II Semester**

**PSO: 05- Paper-I:TAXONOMY AND DIVERSITY OF PLANTS**

* Know about Plant nomenclature, Plant identification, Taxonomic hierarchy, Taxonomic evidences Different Classification and Fossil angiosperm.
* Knowing the families of polypetalae, gamopatelae, Monochlamydae and monocot with particular reference to systematic position, phylogeny, evolutionary trends and economic importance.

**PSO: 06- Paper-II:MOLECULAR BIOLOGY**

* Understand the ucleic acid type and structurereplication, damage and repair.
* Understanding the mechanism of Transcription, translation, RNA splicing, regulation of gene expression in prokaryotes and eukaryotes. Protein sorting and Mutation types and its effects.

**PSO: 07- Paper-III:PLANT PHYSIOLOGY**

* Understand the Membrane transport and translocation of water and solutes, overview of Signal Transduction
* Understanding the mechanism of **Stress physiology :mineral nutrition in plants (excess and deficiency),** Sensory photobiology
* Know the flowering process, Photoperiodism ,endogeneous clock and its regulation, floral induction and development, Genetic, molecular analysis, role of vernalization.

**PSO: 08- Paper-IV:PLANT METABOLISM**

* Understanding the detailed mechanism of Photosynthesis , Respiration and lipid metabolism.
* Know the Nitrogen and Sulphur metabolism, Plant growth regulators and elicitors and its role
* Understood the Movements in plants-types and its measurement and Fundamentals of enzymology and its significance.

**Practicals**

Practical Skills in field collection and documentation, Techniques of herbaria preparation, Morphological characterization and identification up to families. different types of DNA and RNA isolation, Separation of chlorophyll, Determination of R.Q. , effect of quality of light on the rate of photosynthesis , preparation of different type of solution , Qualitative estimation of enzyme activity.

**M. Sc.-III Semester**

**PSO: 09- Paper-I:PLANT DEVELOPMENT & PLANT RESOURCES**

* Knowing the Unique features of plant development. Metabolism of nucleic acids, proteins and mobilization of food reserves, tropisms; control of cell division, Programmed cell death in the life cycle of plants, Seed germination, Hormonal control of Seedling growth. Seed dormancy, overcoming of seed dormancy, Bud dormancy.
* Understand the organization of Root Apical Meristem and Shoot Apical Meristem,
* Knowing the Leaf development, Flower development and Origin, Evolution, Cultivation and Uses of economically useful plants.

**PSO: 10- Paper-II:PLANT ECOLOGY – I (Ecosystem and vegetation ecology)**

* Understand the ecosystem organization, ecosystem stability and management, concept of Ecological perturbations (natural and anthropogenic) and their impact on plants and ecosystems, vegetation organization and vegetation development.

**PSO: 11- Paper-III: BIOTECHNOLOGY-I (Biotechnology and genetic engineering of plants and microbes)**

* Understand the basic concepts, principles and scope of Biotechnology, rDNA technology, construction of genomic / cDNA libraries.
* Knowing the technique of microbial genetic manipulation , genetic engineering of plants DNA synthesis and sequencing genomics and proteomics**.**

**PSO: 12- Paper-IV:Molecular plant pathology-I**

* Understand the General Principles of plant pathology and classification of plant diseases, Diseases inciting organisms, Disease Syndrome and General Symptoms of plant diseases, Sources of Infection, Pathogenesis and Effect of environment on disease development
* Knowing the host parasites relationship, physiological specialization, recurrence of disease and methods of studying plant diseases.

**Practicals**

* Practical Skills in Anatomy of Stem and Root of Angiosperm, Important Economically beneficial Plants. Ecological techniques, Biotechnological techniques and Symptomological studies, culture techniques, Instrumentation etc.

**M. Sc.-IV Semester**

**PSO: 13- Paper-I:PLANT REPRODUCTION AND UTILIZATION OF RESOURCES**

* Understand the Reproduction mechanism, Male gametophyte, Female gametophyte, Seed and Fruit development in higher plants. Utilization of resources.

**PSO: 14- Paper-II:PLANT ECOLOGY-II (Pollution and biodiversity conservation)**

* Understanding the climate, soil and vegetation patterns of the world, pollution, climate change and ecosystems, biological diversity.
* Know about Principles of conservation, In situ conservation and Ex situ conservation.

**PSO: 15- Paper-III:BIOTECHNOLOGY-II (Plant cell, tissue culture and organ culture)**

* Understanding the plants cells and tissue culture, tissue culture media, cell culture, clonal propagation, organogenesis and adventive embryogenesis, somatic embryogenesis and androgenesis, somatic hybridization, cryopreservation and germplasm storage.
* Understanding the intellectual property rights , application of plant tissue culture , production of secondary metabilities / natural products, transgenics in crop improvement

**PSO: 16- Paper-IV:Molecular plant pathology-II**

* Understand the Epidemiology and disease forecasting, General principles of plant disease, Defense Mechanisms , Resistance and susceptibility
* Know the Wilt disease, Diseases due to fungi, Bacteria, Viruses, Mycoplasma and Nematodes

**Practicals**

* Practical Skills in Anatomy of flower of Angiosperm. Ecological techniques, Biotechnological techniques, culture media preparation and culture techniques, Instrumentation, identification and characterization of different plant diseases etc.

**Department of Zoology**

**Bachelor of Science :-**

**Course Outcome (CO):**

**Upon completion of course the Student will be able:**

* To acquire theoretical and Practical knowledge of Kingdom Animalia.
* To acquire knowledge about Taxonomy, Structure, Physiology, Reproduction and Life cycle of Animals.
* To be able to identify Animals based on Morpholgical characters.
* To acquire knowledge of economically important animals and diseases.

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| **MARKING SCHEME SCHEME OF B.Sc (Zoology) I,II,III Year examination** | | | | |
| **Subject** | **Paper** | **Max. Marks** | **Total Marks** | **Min. Mark** |
| Zoology | I | 50 | 150 | 50 |
|  | II | 50 |
|  | Practical | 50 |

**Program Outcome(PO)**

Major Program outcome of B.Sc Zoology are to gain knowledge about:

* Taxonomy,Morphology, Anatomy, and Physiology of different Animal Phyla.
* Cell biology, Genetics
* Biochemistry and Biotechniques
* Ecology and Environmental biology

**B. Sc. Part-I**

**PSO: 01- Paper-I: Cell Biology and Non Chordates**

* To study the structure of the Cell and its constituents.
* Taxonomy and identification of Non chordates.
* Introduction to basic concepts of Immunology.
* Type study of representatives of Non-chordate phyla.

**PSO: 02- Paper-II: Chordate and Embryology**

* Taxonomy and identification of Chordates.
* To study basic concepts of embryology.
* To gainknowledge about theories of fertilization.
* To understand the concepts of Parental Care, Adaptation, Migration in higher Vertebrates.

**Practicals**

* Practical Skills in Dissection of Invertebrates, Cytology, Speciemen identification based on theory

**B. Sc. Part-II**

**PSO: 03- Paper-I: Anatomy and Physiology**

* Comparative anatomy and physiology of vertebrate organ systems.
* To study histology of endocrine glands.
* To study the physiology of Heart, Cardiac cycle and ECG.
* To study the structure and Function of Ear and Eye.

**PSO: 04- Paper-II: Vertebrate Endocrinology, Reproductive Biology, Behaviour, Evolution and Applied Zoology**

* To understand concepts of endocrinology.
* To understand concepts of Reproductive biology.
* To understand concepts of Ethology.
* To study basic concepts of Evolution.
* To study about various economically important animals and concept of pest management.

**Practicals**

* Practical Skills in identification of Chordates, Dissection of Chordates, Slide preparation, Mounting, Study of Limb girdles, Limb bones, Lifecycle of Honey bee, Silk worm.

**B. Sc. Part-III**

**PSO: 05- Paper-I: Ecology, environmental biology, toxicology, microbiology and medical zoology**

* To understand basic concepts of ecology, Biogeochemical cycles, Pollution and Succession.
* To understand concepts of Limiting factors, Energy flow and ecological pyramids.
* To understand principles of toxicology, toxins and animal poisons.
* General and applied microbiology.
* Pathogens and disease causing protozoans and helminthes, vector insects.

**PSO: 06- Paper-II: Genetics, cell physiology, biochemistry, biotechnology and Bio techniques.**

* To understand basic concepts of classical genetics.
* To understand basic concepts of Cellular physiology and Biochemistry.
* To study about concepts and scope of Biotechnology.
* To study about principles and working of basic Bio-intstruments.

**Practicals**

* Practical knowledge of Ecological, Haematological experiments, Identification of Bacteria using Gram staining, Chromatography, Bioinstrumentation.

**Zoology**

**Master of Science:-**

**Course Outcome (CO):**

**Upon completion of course the Student will be able:**

* To acquire knowledge about Taxonomy and Diversity of Vertebrate and Invertebrates
* To acquire knowledge of Animal Morphology, Physiology, Reproduction and Development, Behaviour, Immunology
* To acquire Theoratical and Practical knowledge about Molecular and Cell biology, Genetics, Biochemistry, Biotechnology and Biotechniques
* To become aware of Biodiversity, Environment Physiology and Population Ecology, Conservation
* To acquireTheoratical and Practical knowledge about Ichthyology, Entomology

**Course and Examination Scheme**

Our College follows the Syllabus of DurgUniverstiy for M.Sc Zoology.

The Course is divided in to 4 Semesters.

M.Sc. examination scheme of each Semesters consists of 4 Theory papers and 2 Lab courses.

**Semester I**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Paper | Course | Internal Marks | Theory | Total |  |
| I | Biosystematics, Taxonomy and Biodiversity | 20 | 80 | 100 |  |
| II | Structure and Function of Invertebrates | 20 | 80 | 100 |  |
| III | Population Genetics and Evolution | 20 | 80 | 100 |  |
| IV | Tools & Techniques in Biology | 20 | 80 | 100 |  |
|  |  |  |  |  |  |
| Practical | Lab Course I |  |  | 100 |  |
|  | Lab Course II |  |  | 100 |  |

* **Semester II**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Paper | Course | Internal Marks | Theory | Total |  |
| I | Molecular Cell Biology and Biotechnology | 20 | 80 | 100 |  |
| II | General Physiology and Endocrinology | 20 | 80 | 100 |  |
| III | Developmental Biology | 20 | 80 | 100 |  |
| IV | Computers and Biostatistics | 20 | 80 | 100 |  |
| Practical | Lab Course I |  |  | 100 |  |
|  | Lab Course II |  |  | 100 |  |

* **Semester III**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Paper | Course | Internal Marks | Theory | Total |  |
| I | Comparative Anatomy | 20 | 80 | 100 |  |
| II | Behaviour | 20 | 80 | 100 |  |
| III | Environmental Biology | 20 | 80 | 100 |  |
| IV | Immunology | 20 | 80 | 100 |  |
|  |  |  |  |  |  |
| Practical | Lab Course I |  |  | 100 |  |
|  | Lab Course II |  |  | 100 |  |

* **Semester IV**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Paper | Course | Internal Marks | Theory | Total |  |
| I | Biochemistry | 20 | 80 | 100 |  |
| II | Neurophysiology | 20 | 80 | 100 |  |
| III | Optionals | 20 | 80 | 100 |  |
| IV | Optionals | 20 | 80 | 100 |  |
|  |  |  |  |  |  |
| Practical | Lab Course I |  |  | 100 |  |
|  | Lab Course II |  |  | 100 |  |

**Program Outcome(PO)**

Major Program outcome of M.Sc Zoology are to gain knowledge about:

* Biosystematics and Biodiversity, Evolution
* Structural organization Invertebrates
* Molecular Cell Biology And Biotechnology
* Quantitative and Computer application in Biology
* Comparative anatomy, Biochemistry, Physiology, Ecology, Immunology and Animal behaviour
* Applied Zoology

**Program Specific Outcome(PSO)**

**M. Sc.-I Semester**

**PSO: 01- Paper-I:Biosystematics, Taxonomy and Biodiversity**

The Sudent will gain knowledge about:

* Definition and basic concepts of biosystematics and taxonomy
* Dimensions of speciation and taxonomic characters
* Procedure keys in taxonomy
* Biodiversity

**PSO: 02- Paper-II: Structure and Function of Invertebrates**

The Sudent will gain knowledge about:

* Organization of coelom
* Nutrition and Digestion, Respiration
* Excretion, Nervous System
* Invertebrate larvae

**PSO: 03- Paper-III:Population Genetics and Evolution**

The Sudent will gain knowledge about:

* Concepts of evolution and theories of organic evolution
* Hardy-Weinberg law of genetic equilibrium
* Patterns and mechanisms of reproductive isolation
* Gene Evolution
* Evolution of Species

**PSO: 04- Paper-IV: Tools& Techniques in Biology**

The Sudent will gain knowledge about:

Principles and Application of :

* Ultracentrifugation
* Electrophoresis
* Chromatography (various types)
* Colorimetry and spectrophotometry
* Flow cytometry.
* Light Microscopy and micrometry
* Phase Contrast microscopy
* Interference microscopy
* Fluorescence microscopy
* Transmission Electron microscopy.
* Scanning Electron microscopy.
* ELISA
* PCR
* Biological assays-in vivo and invitro

Principles of cytological and cytochemical techniques

* Fixation: chemical basis of fixation by formaldehyde, gluteraldehyde, chromium salts, mercury salts, osmium salts, alcohol and acetone
* Chemical basis of staining of carbohydrate, protein lipids and nucleic acids.

Principle and techniques of

* Nucleic acid hybridization
* Sequencing of proteins and nucleic acids
* Cryopreservation
* Chromosomal isolation and preparation of Cladogram
* Separation of DNA from animal/human sample

**Lab Course-I**

Practicalsbasedon

* Biosystematics and Taxonomy
* Structure and Function of Invertebrates

**Lab Course-II**

Practicalsbased on

* Population genetics and evolution
* Tools and techniques in biology

**M. Sc.-II Semester**

**PSO: 05- Paper-I:Molecular Cell Biology And Biotechnology**

* DNA Replication
* Transcription, Translation
* C-DNA Library
* Applications of Molecular Biology

**PSO: 06- Paper-II:General Physiology And Endocrinology**

* Digestion, Metabolism
* Muscle Function
* Endocrinology

**PSO: 07- Paper-III:Development Biology**

* Gametogenesis
* Fertilization
* Formative Movments
* Differentiation,Teratology

**PSO: 08- Paper-IV:Quantitative Biology And Computer Application**

* Introduction to Computers and Application
* Organization of Data
* Statistical Analysis

**Lab Course-I**

Practicals based on

* Molecular Biology
* Physiology

**Lab Course-II**

Practicals based on

* Developmental Biology
* Computer and Biostatistics

**M. Sc.-III Semester**

**PSO: 09- Paper-I:Comparative Anatomy of Vertebrates**

* Origin and Classification of Vertebrates
* Comparative Anatomy of Vertebrate classes

**PSO: 10- Paper-II:AnimalBehaviour**

* Ethology
* Communication
* Learning behaviour
* Hormonal Control of Behaviour

**PSO: 11- Paper-III:Environmental Physiology and Ecology**

* Population dymanics
* Adaptations
* Stress physiology

**PSO: 12- Paper-IV:Immunology**

* Cells of Immune system
* Activation of Immune response
* MHC, Hypersensitivity, Autoimmunity
* Immuneresponse during disease and Infection

**Lab Course-I**

Practicals based on

* Vertebrates
* Behaviour

**Lab Course-II**

Practicals based on

* Imunology
* Environmental Biology

**M. Sc.-IV Semester**

**PSO: 13- Paper-I:Biochemistry**

Structure, Functions and Metabolism of

* Proteins
* Carbohydrates
* Lipids
* Vitamins

**PSO: 14- Paper-II:Neurophysiology**

* Structure of Nerves
* Spinal Cord
* Brain
* Autonomic nervous system
* Reflex action

**PSO: 15- Paper-III:**Optionals

**III-**A: Ichthyology

* Origin and Classification of fishes
* Structure and Functions of fishes
* Accesory respiratory organs, Luminous organs
* Migration and Behaviour

**III**-B: Cell Biology

* Structure and Function of DNA, Chromosomes and Genes
* Transcription and Translation
* Drosophila Genetics

**III**-C: Entomology

* Structure and Function physiology of Insects
* Embryonic Delvelopment
* Metamorphosis
* Pesticides

**III**-D: Wild Life Conservation

* Wild Life Conservation
* Population Dynamics and Ecology
* Eco tourism, Wild life Sancturies, Parks
* Diseases of Wild Animals

**III**-E: Vertebrate Immunology

* Cells and Tissues of Immune System
* Cell lineage and Activation
* Antigen Antibody, Antibody generation
* Hypersensitivity
* Techniques in Immunology

**PSO: 16- Paper-IV:** Optional

**IV-**A:Pisci culture and economic importance of fishes (Ichthyology)

* Collection Breeding and management of fishes
* Composite fish, prawn culture
* Coastal area, inland, sewage fish culture
* Fish preservation and economics of fisheries

**IV-**B: Cellular organization and molecular organization

* Genreral organization of Viruses, Yeast,
* Mitochondria Respiratory chain assembly
* Cell cycle, Cyto chemistry of Golgi
* Peroxisomes, Lysosomes
* Genome Complexity, Cell transformation
* Oncogenes, Tumor suppresor genes
* Ligand Receptor interaction

**IV-**C: Applied entomology

* Classification, Collection of insects
* Insect pest management, Biological Control
* Econimic importance of insects

**IV-**D: Environment and Biodiversity conservation

* Introduction, Scope and Importance of Environmental Biology
* Environmental Pollution, Global Warming, Disaster management
* Natural Resources importance and conservation

**IV-**E: Molecular endocrinology and reproductive technology

* Introduction to Endocrinology
* Hormones
* Receptors
* Signal Transduction
* Assisted Reproductive technology

**Lab Course-I**

Practicals based on

* Biochemistry
* Neurophysiology

**Lab Course-II**

Practicals based on Optional Choice papers

* Ichthyology
* Cell and Molecular Biology
* Entomology
* Wild life conservation

**Department of Chemistry**

**Bachelor of Science:-**

**COURSE OUTCOME**

The purpose of the B.Sc. (Chemistry) programme is

* To provide basic theoritical and practical knowledge in the field of chemistry.
* This will help the student to further pusue higher education and research in Chemistry and to work in Chemical industry or Academia.

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MARKING SCHEME SCHEME OF B.Sc (Chemistry) I,II,III Year examination** | | | | |
| **Subject** | **Paper** | **Max. Marks** | **Total Marks** | **Min. Mark** |
| **Chemistry** | I | 33 | 150 | 50 |
|  | II | 33 |
|  | III | 34 |
|  | Practical | 50 |

**Program Outcome(PO)**

Major Program outcome of B.Sc Chemistry:

* To gain knowledge aboutFundamentals and application of current chemical and scientific theories.
* To develop problem solving, critical thinking and analytical skills.
* Students will be able to record and analyze the results of experiments.
* To develop understanding about the central role of chemical sciences in human society.

**Program Specific Outcome(PSO)**

**B. Sc. Part-I**

**PSO: 01- Paper-I: Inorganic Chemistry**

* Students will develop an understanding about the atomic structures and their rules.
* Students will have an insight look about V.B.T. and types of hybridization.
* Students will be able to understand about different characteristics of ionic solids, semiconductors and band theories.
* Students will have an insight comparative study of s-block elements.
* Students will understand about different properties & structures of p-block elements and inorganic chemical radicals.

**PSO: 02- Paper-II:Organic Chemistry**

* Students will be able to develop an understanding about electronic structure bonding &
* mechanism.
* They will be able to learn about stereochemistry of organic compounds.
* Students will have an idea about aliphatic and aromatic ring compounds.
* Students will be able to perform chemical reactions, structures, substitution reactions of
* alkenes, dienes and alkynes.
* Students will develop an understanding about the mechanism and substitution reactions of alkyl and aryl halides.

**PSO: 03- Paper-III: Physical Chemistry**

* Students will be able to perform mathematical concept for chemist and computers.
* Students will be able to understand the concept of Maxwell's law and J-T effect.
* Students will have a basic idea about Roults law and Van't Hoff factor of liquids.
* Students will have an insight view about classification, structures and applications of liquid crystals, colloidal and solid state.
* Students will study the about chemical kinetics & catalysis.

**Laboratory course**

Student will learn calibration, determination of physical properties of compound and qualitative analysis.

**B. Sc. Part-II**

**PSO: 04- Paper-I: Inorganic Chemistry**

* Students will be able to understand basic property like complexion, colour transition and oxidation state of elements of 3d series.
* Student will learn about the similarities between 4d and 5d series into various aspects like magnetic property la/Ac contraction and spectral phenomena.
* Student will learn about various theories like VBT, MOT, LFT about Co- ordination complexes and their spectral characteristics.
* Student will learn about various isolation processes for the separation of La and Ac also complex formation and variation in oxidation state.
* Student will learn about various proposed method for acid and base.

**PSO: 05- Paper-II: Organic Chemistry**

* Student will learn about method of preparation, physical and chemical properties of alcohols, phenols, ethers and epoxides.
* Student will learn about Important synthesis methods and chemical reactions and oxidising nature of aliphatic and aromatic aldehyde and ketones.
* Student will learn about Acidic property, effect of substituents of carboxylic acid and chemical and physical properties of their derivatives.
* Student will learn about Chemical reaction, effect of substituents on aliphatic and aromatic nitrogen containing compound.
* Student will learn about Important reaction, mechanism and synthesis of heterocyclic compounds and their role in drugs synthesis. Role of Amino acids in biological process and end group analysis of amino acids.

**PSO: 06- Paper-III: Physical Chemistry**

* Student will learn about first law of thermodynamics and calculation of various mathematical expression related to ideal gases.
* Student will learn about Second and third law of thermodynamics studied in detail with the basic concepts of entropy, pressure and temperature .
* Student will learn about various theories including nernest equation, lee chateliers equation and principle and gibbs phase rule.
* Student will learn about Principles and theories which explain the electrolytic solution and their conductivity.
* Student will learn about Redox, EMF, electrode reaction and concentration cells and their importance.

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**Laboratory course**

Students will learn calibration, volumetric analysis, chromatography, qualitative analysis and thermochemistry.

**B. Sc. Part-III**

**PSO: 07- Paper-I: Inorganic Chemistry**

* Students will learn about metal-ligand bonding in transition metal complexes and types of ligand.
* Student gains important information about ionic bond, crystal field theory and its applications.
* Students gains the knowledge of organometallic compounds and their chemical reactions.
* Students will learn about important elements.
* Students will learn about concept of acid and base and the forms in which compounds occur in nature.

**PSO: 08- Paper-II: Organic Chemistry**

* Students will learn about different organometallic compounds and organic synthesis
* via enolates.
* Students will learn about biomolecules and their important roles in chemistry and daily life.
* Students gains the knowledge of polymers, types of biopolymers, formation, their properties and uses.
* Students will learn about Mass Spectroscopy, infrared and UV/Visible spectroscopy.
* Students gains knowledge about NMR 13C Spectroscopy their principle and applications.

**PSO: 09- Paper-III:Physical Chemistry**

* Students will know about the structure of atom, orbitals and importance of quantum mechanics in chemistry.
* Students gain knowledge about applications of quantum mechanics.
* Students will know about Spectroscopy and its role in determination of molecular and atomic structure.
* Students gains the knowledge about orientation of magnetic properties in substances.
* Students will know about third law thermodynamics.

**Laboratory course**

* Students will understand preparation of complex, synthesis and analysis of organic compound, qualitative analysis and handling of instruments.
* Know about TLC method for determination of drugs.

**Master of Science- Chemistry :-**

**COURSE OUTCOME**

The purpose of the M.Sc. (Chemistry) programme is

* To provide advanced theoretical and practical knowledge in the field of chemistry.
* This will help the student to further pursue advanced research in Chemistry and to work in Chemical industry or Academia.

**Course and Examination Scheme**

Our College follows the Syllabus of DurgUniverstiy for M.Sc Chemistry.

The Course is divided in to 4 Semesters.

M.Sc. examination scheme of each Semesters consists of 4 Theory papers and 2 Lab courses.

**Semester I**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Paper | Course | Internal Marks | Theory | Total |  |
| I | Group Theory And  Chemistry Of Metal  Complexes | 20 | 80 | 100 |  |
| II | Concepts of organic Chemistry | 20 | 80 | 100 |  |
| III | Quantum Chemistry, Thermodynamics And Chemical Dynamics - I | 20 | 80 | 100 |  |
| IV | Theory And Applications Of Spectroscopy-I | 20 | 80 | 100 |  |
|  |  |  |  |  |  |
| Practical | Lab Course I |  |  | 100 |  |
|  | Lab Course II |  |  | 100 |  |

**Semester II**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Paper | Course | Internal Marks | Theory | Total |  |
| I | Transition Metal Complexes | 20 | 80 | 100 |  |
| II | Reaction Mechanisms | 20 | 80 | 100 |  |
| III | Quantum Chemistry, Thermodynamics  and Chemical Dynamics - II | 20 | 80 | 100 |  |
| IV | Theoryand applications of  spectroscopy-II | 20 | 80 | 100 |  |
|  |  |  |  |  |  |
| Practical | Lab Course I |  |  | 100 |  |
|  | Lab Course II |  |  | 100 |  |

**Semester III**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Paper | Course | Internal Marks | Theory | Total |  |
| I | Resonance Spectroscopy, Photochemistry And Organocatalysis | 20 | 80 | 100 |  |
| II | Chemistry of Biomolecules | 20 | 80 | 100 |  |
| III | Catalysis, Solid State And Surface Chemistry | 20 | 80 | 100 |  |
| IV | Analytical Techniques And Data Analysis | 20 | 80 | 100 |  |
|  |  |  |  |  |  |
| Practical | Lab Course I |  |  | 100 |  |
|  | Lab Course II |  |  | 100 |  |

**Semester IV**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Paper | Course | Internal Marks | Theory | Total |  |
| I | Instrumental Methods Of Analysis | 20 | 80 | 100 |  |
| II | Natural Product And Medicinal Chemistry | 20 | 80 | 100 |  |
| III | Material And Nuclear Chemistry | 20 | 80 | 100 |  |
| IV | Environmental & Applied Chemical Analysis## | 20 | 80 | 100 |  |
|  |  |  |  |  |  |
| Practical | Lab Course I |  |  | 100 |  |
|  | Lab Course II |  |  | 100 |  |

##: Students of our College opt for this paper from the choice of Optionals given by the University.

**Program Outcome(PO)**

Major Program outcome of M.Sc Chemistry:

To gainadvancedtheoreticalknowledge and applications of

1. Group theory and Chemical Complexes, Quantum Chemistry, Chemical Dynamics and Thermodynamics.
2. Reaction Mechanisms and Spectroscopy.
3. Photochemistry, Catalysis and Surface chemistry, Biomolecules.
4. Instrumental methods of Chemical Analysis.
5. Medicinal Chemistry, Nuclear Chemistry, Environmental Chemistry, Nanochemistry.

**M. Sc. Semester I**

**PSO: 01- Paper-I: Group Theory and Chemistry of Metal Complexes**

Students gain knowledge about:

* Symmetry and Group Theory.
* Metal-Ligand Bonding.
* Metal-Complexes, Metal–Ligand Equilibra in Solution.
* Isopoly-Acid And Heteropoly-Acid.
* Silicates, Silicones Metal Clusters, Chains, Rings.

**PSO: 02- Paper-II: Concepts oforganic Chemistry**

Students gain knowledge about:

* Nature of bonding in organic molecules.
* Aromaticity.
* Conformational analysis.
* Stereochemistry.
* Reaction intermediates .
* Elimination reactions.
* Pericyclic reactions.

**PSO: 03- Paper-III: Quantum Chemistry,Thermodynamics and Chemical Dynamics - I**

Students gain knowledge about:

* Mathematical Concept in Quantum Chemistry
* Basics of Thermodynamics
* Electrochemistry–I
* Chemical Dynamics –I

**PSO: 04- Paper-IV: Theory And Applications Of Spectroscopy-I**

Students gain knowledge about:

* Unifying Principles
* Microwave Spectroscopy
* Scattering Spectroscopy
* Raman Spectroscopy

**Lab Course I**

1. Qualitative analysis of mixture containing Acid and Basic radicals.
2. Separation and determination of two metal ions in ores, alloys, or mixtures in solution, one by volumetric and the other by gravimetric methods.
3. Estimation of Constituents of Commercial Compounds.
4. Preparation of selected inorganic compound and their studies by I.R. electronic spectra, Mössbauer, E.S.R.
5. Magnetic susceptibility measurements.
6. Handling of air and moisture sensitive compounds.

**Lab Course II**

Exercise Based on :

1. Adsorption/Surface Chemistry
2. Phase Equilibria
3. Chemical Kinetics
4. Solutions/Molecular Weights

**M. Sc. Semester II**

**PSO: 05- Paper-I: Transition Metal Complexes**

The Student will gain knowledge of:

* Reaction Mechanism of Transition Metal Complexes
* Electronic Spectra And Magnetic Properties of Transition Metal Complexes
* Transition Metal Complexes
* Alkyls And Aryls of Transition Metals
* Compounds of Transition Metal - Carbon Multiple Bonds
* Fluxional Organometallic Compounds

**PSO: 06- Paper-II: Reaction Mechanisms**

The Sudent will gain knowledge about:

* Aliphatic Nucleophilic Substitution
* Aromatic Nucleophilic Substitution
* Aliphatic Electrophilic Substitution
* Aromatic Electrophilic Substitution
* Addition To Carbon-Carbon Multiple Bonds
* Addition To Carbon-Hetero Multiple Bonds

**PSO: 07- Paper-III: Quantum Chemistry, Thermodynamics and Chemical Dynamics - II**

The Sudent will gain knowledge about:

* Application Of Matrices In Quantum Chemistry.
* Angular Momentum In Quantum Chemistry.
* Approximate Methods.
* Statistical Thermodynamics.
* Electrochemistry –II
* Chemical Dynamics –II

**PSO: 08- Paper-IV:Theory and applications of Spectroscopy-II**

The Sudent will gain knowledge about:

* Ultraviolet and Visible Spectroscopy
* Infra Red Spectroscopy
* Mass Spectrometry
* Nuclear Resonance Spectrophotometry

**Lab Course III**

Excersice Based on:

* General Methods of Separation and Purification of Organic Compounds
* Distillation Techniquies
* Analysis of Organic Binary Mixture
* Preparation of Organic Compounds: Single Step preparations

**Lab Course IV**

Excersice Based on:

* Error Analysis And Statistical Data Analysis
* Use Of Computer Programmes
* Flame Photometric Determinations
* Nephelometric Determinations
* Electrophoresis
* Spectroscopy

**M. Sc. Semester III**

**PSO: 09- Paper-I: Resonance Spectroscopy, Photochemistry AndOrganocatalysis**

The Sudent will gain knowledge about:

* Electron Spin Resonance Spectroscopy
* Nuclear Quadrupole Resonance Spectroscopy
* Photoelectron Spectroscopy
* Photoacoustic Spectroscopy
* Photochemical Reactions
* Determination Of Reaction Mechanism
* Miscellaneous Photochemical Reactions
* Organocatalysis

**PSO: 10- Paper-II: Chemistry of Biomolecules**

The Sudent will gain knowledge about:

* Bioenergetics
* Electron Transfer in Biology
* Transport and Storage of Dioxygen
* Metalloenzymes
* Enzyme Models
* Enzymes
* Co-Enzyme Chemistry
* Biotechnological Applications of Enzymes
* Biopolymer Interactions
* Thermodynamics of Biopolymer Solutions
* Cell Membrane and Transport of Ions

**PSO:11 - Paper-III: Catalysis, Solid State And Surface Chemistry**

The Sudent will gain knowledge about:

* Acids, Bases, Electrophiles, Nucleophiles and Catalysis
* Micelles and Adsorption
* Solid State Chemistry – I
* Macromolecules

**PSO: 12- Paper-IV:Analytical Techniques And Data Analysis**

The Sudent will gain knowledge about:

* Sample Preparation, Digestion And Statistical Analysis
* Separation Techniques
* Thermal And Automated Methods
* Electrochemistry
* Polarography

**Lab Course V**

* Excersices Based on Physical Chemistry
* Advanced Equipment based experiments

**Lab Course VI**

Excersices Based On

* Spectrophotometric Determinations
* Polarography
* pH-Meter
* Flame Photometric Determinations
* Refractometry
* Separation And Quantitative Estimation Of Binary And Ternary Mixtures

**M. Sc. Semester IV**

**PSO: 13- Paper-I: Instrumental Methods Of Analysis**

The Sudent will gain knowledge about:

* Advanced Chromatography
* X-Ray And Proton Induced Spectroscopy
* Atomic Emission Spectroscopy
* Atomic Absorption Spectroscopy And Hyphenated Techniques

**PSO: 14- Paper-II: NaturalProduct And Medicinal Chemistry**

The Sudent will gain knowledge about:

* Terpenoids and Carotenoids
* Alkaloids
* Steroids
* Plant Pigments
* Drug Design Development
* Antineoplastic Agents
* Antibiotics, Anti Malarial drugs

**PSO:15 - Paper-III: Material And Nuclear Chemistry**

The Sudent will gain knowledge about:

* Non Equilibrium Thermodynamics
* Material Chemistry
* Supramolecular Chemistry
* Nuclear And Radiochemistry Nuclear Theory
* Nuclear Fission
* Nuclear Energy
* Applied Radiochemistry

**PSO: 16- Paper-IV: Environmental & Applied Chemical Analysis**

The Sudent will gain knowledge about:

* Air Pollution Monitoring And Analysis
* Soil And Water Pollution
* Food Analysis
* Cosmetics, Clinical And Drug Analysis

**Lab Course VII**

Excersices Based on:

* Multi - Step Synthesis of Organic Compounds
* Quantitative Organic Analysis
* Estimation of Functional Group
* Extraction of Organic Compounds From Natural Sources
* Some advanced level sophisticated instrument based (FTIR, NMR, GC-MS, AAS, FLUORESCENCE SPECTROPHOTOMETER, TENSIOMETER etc.)

**Lab Course VIII**

Excersices Based on:

* Spectrophotometric Determination
* Flow Injection Analysis
* Atomic Absorption Spectrophotometer
* Titrimetic/Gravimetric Determinations
* Chromatographic Separation
* Nutrient and micronutrient analysis
* Toxic Element estimation

**Department of Physics**

**Bachelor of Science :-**

**COURSE OUTCOME**

The purpose of the B.Sc. (Physics) programme is

* To provide basic theoritical and practical knowledge in Physics.
* This will help the student to further pusue higher education and research in Physcis and to work for Industry or Academia.

**Program Outcome(PO)**

Major Program outcome of B.Sc Physics:

* To gain knowledge about Fundamentals and application of Physcial Phenomenon like Laws of Motion, Optics, Mechanics, and Electronics.
* To develop problem solving, critical thinking and analytical skills.
* To be able to record and analyze the results of experiments.
* To develop understanding about the role of physical sciences in human society.

**B.Sc. I year**

**PSO: 01- Paper-I:Mechanics Oscillation and Properties of Matter**

The paper aims at imparting knowledge about:

* The concepts of Frame of Reference of different coordinates
* The laws and apply them in calculations of the motion of simple and oscillation systems
* The Cathode Ray Oscilloscope theory
* The concepts of friction and the concepts of elasticity, fluid mechanics and be able to perform calculations using them

**PSO: 02- Paper-II: Electricity, Magnetism and Electromagnetic Theory**

The paper aims at imparting knowledge about:

* The concepts of Circuit theory.
* The knowledge regarding Electricity, Dielectric medium.
* Magnetisation and Electromagnetic behaviour.
* Demonstrating quantitative problem solving skills.

**B.Sc. II year**

**PSO 03- Paper-I: Thermodynamics, Kinetic Theory and Statistical Physics**

The paper covers the topic related to thermodynamics, kinetic theory and Statistical physics.

Student will be able to

* Comprehend the basic concepts of thermodynamics and its applications in physical situation.
* Learn about situations in low temperature.
* Understand the concepts of Thermal and Statistical mechanics.
* Understand the concepts of Statistical system and its impact on surrounding.
* Understand the Particle behaviour and its consequences according to the Statistical Physics.
* Demonstrate quantitative problem solving skills in all the topics covered

**PSO 04- Paper-II: Waves Acoustics and Optics**

* Students will appreciate the role of Physics in ‘interdisciplinary areas related to materials, Acoustics etc.
* Students will understand the concepts of lens system and interference.
* To apply the laws of light to formulate the relations necessary to analyse lens formulae
* To study about LASER and its applications
* To demonstrate quantitative problem solving skills in all the topics covered.

**B.Sc. III year**

**PSO 05: Paper I: Relativity, Quantum Mechanics Atomic Molecular and Nuclear Physics**

**Student will be able to**

* Understand laws of Relativity, Quantum mechanics and apply them in atomic Physics
* Understand the concepts Molecular Physics
* Understand laws and application of Nuclear Physics
* Demonstrate quantitative problem solving skills in all the topics covered

**PSO 06: Paper II: Solid State Physics, Solid State Devices and Electronics.**

**Student will be able to**

* Understand the concepts of Solid State Systems
* Understand the concepts of Statistical system in Solid State System and its impact on surrounding
* Demonstrate quantitative problem solving skills in all the topics covered
* Understand the basics of transistor biasing and their applications

**Department of Commerce**

**(Bachelor of Commerce)**

**OBJECTIVE OF THE PROGRAMME:**

. The objectives of the prescribed course are:

* To provide students with specific knowledge and skills relevant to their disciplines and careers.
* This program satisfies the educational entrance requirements for membership of relevant professional bodies.
* To develop understanding of the principles of accounting, finance, economic and business law.
* To develop numerical abilities of students.
* To inculcate writing skills and business correspondence
* To create awareness of law and legalizations related to commerce and business.
* To introduce recent trends in business , organizations and industries
* To acquire practical skills related with banking and other business.

**COURSE OUTCOME**

The purpose of the B.Com. programme is

* This will help the student to further pusue higher education and qualify for professional exams like C.A., C.S., CMA, UPSC and state PSC's.
* To develop qualitative and quantitative skills for Business and Enterpreneurship.

**Program Outcome(PO)**

Major Program outcome of B.Com:

* To provide knowledge about Fundamentals and application of Finance, Auditing and taxation, Accounting, Management, Communication, Computer .
* To develop problem solving, critical thinking and analytical skills in the field of Business and Commerce.
* To develop understanding about the role of Commerce in human society.

**Subjects and Scheme of Examination**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Class | Group | Subject | Marks | Maximum | Minimum |
| B.Com I | I | Finanacial Accounting | 75 | 150 | 50 |
|  |  | Business Communication | 75 |  |  |
|  | II | Business Maths | 75 | 150 | 50 |
|  |  | Business Regulatory Framework | 75 |  |  |
|  | III | Business Environment | 75 | 150 | 50 |
|  |  | Business Economics | 75 |  |  |
|  | | | | | |
| B.Com II | I | Corporate Accounting | 75 | 150 | 50 |
| Company Law | 75 |
| II | Cost Accounting | 75 | 150 | 50 |
| Principle of Business Management | 75 |
| III | Business Statistics | 75 | 150 | 50 |
| Fundamentals of Enterpreneurship | 75 |
|  | | | | | |
| B.Com III | I | Income tax | 75 | 150 | 50 |
| Auditing | 75 |
| II | Indirect Tax, GST | 75 | 150 | 50 |
| Management Accounting | 75 |
|  |  |  |  |  |
|  |  |  |  |  |
| III  Option A  Finanace Area | Finance Management | 75 | 150 | 50 |
|  | Finance Market Operation | 75 |
| III  Option B  Marketing Area | Principles of Marketing | 75 | 150 | 50 |
| International Marketing | 75 |
| III  Option C  Commercial Area | IT and its applications | 75 | 150 | 50 |
| Essentials of e-Commerce | 75 |
| III  Option D  Money Banking and Insurence | Fundamentals of Insurance | 75 | 150 | 50 |
| Money and Banking System | 75 |

**Program Specific Outcome(PSO)**

**B.Com I Year**

**PSO 01 FINANCIAL ACCOUNTING**

* Define bookkeeping and accounting.
* Explain the general purposes and functions of accounting.
* Explain the differences between management and financial accounting.
* Describe the main elements of financial accounting information – assets, liabilities, revenue and expenses.
* Preparation of final accounts and their purposes.

**PSO 02 BUSINESS COMMUNICATION**

* To give the knowledge of effective Communication in Business.
* Different processes and considerations involved in writing in business.
* Identify the appropriate use of different channels of written communication in business.
* Create various types of business reports
* Communicating through Technology

**PSO 03 BUSINESS MATHS**

* Understanding of basic marketing mathematics by solving relevant problems, including trade discount, cash discounting, and markup & markdown calculations.
* Apply the principles of simple interest to solve relevant problems in financial applications such as simple interest based loans.
* To analysis business math concepts that are encountered in the real world understand and able to communicate the under lined business concepts & mathematics involve to help another person.

**PSO 04 BUSINESS REG. FRAMEWORK**

* Knowledge of Contract Act.
* Explain the rights and duties of bailor, bailee, pawnee and surety
* Provisions of agency.
* Contract of Sale.
* To give the knowledge of consumers protection act and FEMA.

**PSO 05 BUSINESS ENVIRONMENT**

* Analyze the global business environment.
* Analyze the local business environment.
* Use critical thinking skills in business situations.
* Apply an ethical understanding and perspective to business situations.

**PSO 06 BUSINESS ECONOMICS**

* Apply the concept of opportunity cost.
* Law of Demand.
* Employ marginal analysis for decision making
* Analyze operations of markets under varying competitive conditions
* Analyze causes and consequences of unemployment, inflation and economic growth

**B.Com II Year**

**PSO 07 CORPORATE ACCOUNTING**

* This course aims to enlighten the students on the accounting procedures followed by the Companies.
* Student’s skills about accounting standards will be developed.
* To make aware the students about the valuation of shares.
* To impart knowledge about holding company accounts, amalgamation, absorption and reconstruction of company.

**PSO 08 COMPANY LAW**

* To impart students with the knowledge of fundamentals of Company Law and provisions of the Companies Act of 2013.
* To apprise the students of new concepts involving in company law regime.
* To acquaint the students with the duties and responsibilities of Key Managerial Personnel.

**PSO 09 COST ACCOUNTING**

* To understand Basic Cost concepts, Elements of cost and cost sheet.
* Providing knowledge about difference between financial accounting and cost accounting.
* Ascertainment of Material and Labor Cost.
* Student’s Capability to apply theoretical knowledge in practical situation will be increased.

**PSO 10 PRINCIPAL OF BUSINESS MANAGEMENT**

* To understand basic knowledge of principles & function of management.
* To understand the process of decision making.
* Modern trends in management process.
* To inculcate knowledge of personality perception motivation. job satisfaction morale , group dynamic and leadership.

**PSO 11 BUSINESS STATISTICS**

* To develop the students ability to deal with numerical and quantitative issues in business
* To enable the use of statistical, graphical and algebraic techniques wherever relevant.
* To have a proper understanding of Statistical applications in Economics and Management significance Discuss critically the uses and limitations of statistical analysis. Solve a range of problems using the techniques covered. Conduct basic statistical analysis of data.**PSO 12 FUNDAMENTAL OF ENTREPRENEURSHIP**
* To aiming to develop students about Entrepreneurship development
* To create an awareness on various Entrepreneurship Development Program.
* To enable them to understand project formulation.
* To familiarize the students with EDP schemes.
* To give an introduction about MSME, EDI and other training institutes in Entrepreneurship.

**B.Com III Year**

**PSO 13 INCOME TAX**

* To introduce the basic concept of Income Tax .
* In order to familiarize the different know-how and heads of income with its components.
* It helps to build an idea about income from house property as a concept.
* It give more idea about the income from business or profession
* Make the students familiarizes with the concept of depreciation and its provisions.

**PSO 14 AUDITING**

* Student will understand the audit process from the engagement planning stage through completion of the audit, as well as the rendering of an audit opinion via the various report options.
* Student will understand auditors‟ legal liabilities, and be able to apply case law in making a judgment whether auditors might be liable to certain parties.
* Student will understand to describe the various levels of persuasiveness of different types of audit evidence and explain the broad principles of audit sampling techniques.
* Student will understand to discuss the need for an independent or external audit and describe briefly the development of the role of the assurance provider in modern business society.
* Student will able describe the quality control procedures necessary to ensure that a competent assurance engagement is performed, and apply professional ethics including Code of Conduct to specific scenarios.
* Student will able to explain the internal audit process including the professional standards applicable to the internal audit profession.

**PSO 15 INDIRECT TAX WITH GST**

* Understand the impact of new regulation on distribution of pesticides and kind of changes needed to be done.
* Gain an insight on the recording and analyzing the transactions for compliance under GST especially in supply chain and distribution.
* Getting familiar with the technology and the flow of return filing under GST.
* Knowing “place of supply rules” and applicability of the same under GST.

**PSO 16 MANAGEMENT ACCOUNTING**

* To enlighten the students thought and knowledge on management Accounting.
* Helps to give proper idea on financial statement analysis in practical point of view.
* To introduce the concept of fund flow and cash flow statement.
* To provide knowledge about budget control keeping in mind the scope of the concept.
* To develop the know-how and concept of marginal costing with practical problems.

**PSO 17 FINANCIAL MANAGEMENT (Group A)**

* To develop the knowledge of business finance and financial management decision.
* Demonstrate a basic understanding of financial management.
* To teach a sense of responsibility and a capacity for financial management.

**PSO 18 FINANCIAL MARKET OPERATIONS**

* 1. To give them outline about the participants in the financial markets.
* 2. To aware the students about share and debt markets, and name their collective name.
* 3. To aware the students about the instruments of the money and bond markets.
* 4. To make them capable to distinguish between fixed-interest and interest-bearing markets.
* 5. To aware the students about the foreign exchange market and the organization of the financial markets.
* 6. To make them aware about the primary and secondary markets.

**PSO 19 PRINCIPLES OF MARKETING (Group B)**

* To introduce the marketing concept and how we identify, understand and satisfy the needs of customers and markets.
* To analyze companies and competitors and to introduce marketing strategy to increase awareness of the strategic and tactical decisions behind today’s top performing brands.
* 5. The marketing concept and environment.

**PSO 20 INTERNATIONAL MARKETING**

* Students will be an expert in international marketing management with competencies in applied business research. Furthermore, you will learn responsible business and teamwork skills.
* Able to gain an in-depth knowledge and understanding of international marketing strategy processes in all types of firms, be able to identify current challenges in international marketing and propose solutions to them.
* Able to interpret the special characteristics of an international knowledge-intensive environment and originations and their role in marketing decision-making.
* You will also learn to apply different marketing tools and strategies in technology and knowledge-intensive markets and to analyze and criticize firms' strategic marketing decisions in these markets.

**PSO 21 INFORMATION TECHNOLOGY AND ITS APPLICATIONS IN BUSINESS (Group C)**

* The objective of the course is to familiarize the students with the innovation information technology and how it affects business. An understanding of the Group rules of these technologies will enable the students to appreciate the nitty-gritty commerce.
* After Completion of the subject student should able to:-

1. Understand development of business with the help of basic feature of IT.

2. Understand Fundamental of computers, Electronic data processing (EDP)

3. Understand how to use computer based business Application.

4. Understand Application of internet in Business, education, governance, etc.

**PSO 22 ESSENTIAL OF E-COMMERCE**

* This course provides an introduction to information systems for business and management. It is designed to familiarize students with organizational and managerial foundations of systems, the technical foundation for understanding information systems
* After Completion of the course student should able to:

1. Understand the basic concepts and technologies used in the field of management information systems, Business operations, Organization.

2. Have the knowledge of the different types of management information systems, EDI, Applications in Governance.

3. Understand the processes of developing and implementing information systems.

4. Understand Emerging business models, information service model, Security & Legal aspects of E-commerce.

**PSO 23 FUNDAMENTAL OF INSURANCE (Group D)**

* To equip students with basic foundation knowledge of insurance in order to develop a better understanding of insurance practice.
* To apply the technical and practical skills needed in starting a career in the insurance industry.
* To acquire knowledge to improve the selling, underwriting, investigating or assessing losses of insurance products to the public.
* To appreciate the importance of business ethics with special reference to insurance.

**PSO 24 MONEY AND BANKING SYSTEM**

* Describe the context of banking: the financial system.
* Explain the principles of banking.
* Elucidate the broad functions of banks.
* Analyze and explain the basic raison d'etre for banks.
* Describe the components of the balance sheets of banks.
* Elucidate the liability and asset portfolio management "problem" of Banks.

**Department of Home Science**

**Bachelor of Arts :-**

The department of Home Science offer option in Home Science at Undergraduate (B.A). We follow the syllabus prescribed by Hemchand Yadav University, Durg.

**COURSE OUTCOME**

The purpose of the B.A (Home Science) programme is

* This will help the student to further pusue higher education and research in area of Home Science.
* To develop qualitative and quantitative skills for Home management.

**Program Outcome(PO)**

Major Program outcome of B.A( Home Science):

* To provide knowledge about Fundamentals of Human Anatomy and Physiology, Hygiene and Extension activities.
* To provide knowledge about Textiles Science, Home resource Management
* To provide Knowledge about Human Development, Food and Nutrition.

**Program Specific Outcome(PSO)**

**B. A. Part-I**

**PSO: 01-ANATOMY PHYSIOLOGY & HYGIENE**

Student will develop understanding and gain knowledge about

* Structure & functions of Cell and Tissue systems.
* Circulatory system and Respiratory system .
* Digestive system.
* Nervous system and Sense organs.
* Concepts of Hygiene, First aid, home nursing.

**PSO: 02- EXTENSION EDUCATION**

Student will develop understanding and gain knowledge about

* Introduction of Home Science Extension Education.
* Community Development problems and Role of Home Scientists.
* Teaching methods & aids.
* Attitude, Motivation and Applications of Home Science.

**Practical**

* Practical exercise based on Hygiene, First aid and home management of Patients.

**B. A. Part-II**

**PSO: 03-Fibers and Textile**

Student will and gain knowledge about

* Types of Fibers and Weaving techniques.
* Basic design and Colours.
* Printing techniques.
* Washing and Cleaning of Textiles.
* Apparel and Clothing.

**PSO: 04- Family Resource Management**

Student will gain knowledge about

* Introduction to Home Management.
* Home decoration, Furniture, Flower arrangment.
* Family Resources, classification and optimum utilization of energy, family budget.
* Kitchen resources and management.
* Streamlining of household work, Optimum use of house hold equipments for saving time, energy and labour.

**Practical**

* Practical exercise based on Tailoring, Cleaning and Decoration.

**B. A. Part-III**

**PSO: 05-Human Development**

Student will and gain knowledge about

* Indtroduction to Human Development.
* Types of Delivery.
* Childhood and Adolescence.
* Behaviour.
* Theories of Play, Habits, and delinquency.

**PSO: 06- Food and Nutrition**

Student will gain knowledge about

* Introduction to Nutrition and types of Nutrients.
* Food, types of Food.
* Food Processing purpose and techniques.
* Food resources and its management.
* Food and Diseases

**Practical**

* Practical exercise based on Food Preparation, Food management, Food Processing, Supplimentary Diet, Personality and Intellect estimation.

**Department of Political Science**

**Bachelor of Arts :-**

Programme Outcome

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Course Outcome

B.A. I

Political Theory-

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Indian Government and Politics –

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B.A.II

Western Political Thought –

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B.A.III

International Politics –

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**Master of Arts :-**

M.A.PoliticalScince

Programme Outcome

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Course Outcome

MA I Semester

Paper I

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MA II Semester

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MA III Semester

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U;k;ikfydkfdlizdkj ls fu; a=.k j[krhgSvkfnckrksadk v/;;u fd;ktkrk g SA

Paper II

Hkkjrh; fons’kuhfr&

Hkkjr dh fons’kuhfr ds fuekZ.k ds le;Hkkjr dh ifjfLFkfr;kWa] fu/kkZjdrRo] fujarjrk ,oaifjorZu dh fons’kuhfr]

fons’kuhfrdkfodklfdlizdkj ls g qvkAiM+kslh n s’kksa ds lkFkvlayXurkdhuhfrdk s viukus ds i'pkrfdlizdkjdk lac a/k jgk] oS’ohdj.k]

fu%’kL=hdj.k] lhekijvkradokndkmn; ,oaizHkkodk v/;;u]i;kZoj.kh; fLFkfrdk v/;;u fd;ktkrk g SA

Paper III

varjk"Vªh; dkuwu&

bliz’ui= ds ek/;e ls Nk=k,Wvarjk”V ªh;dkuwu ds l aca/k e s KkuizkIrdjrhgSAvarjk”Vªh; dkuwufdlsdgrsgSa\

lzksrD;k g S\ lafgrkdj.kD;k g S\ ,sfrgkfldfodkl] xzksfl;ldk ;ksxnku]jkT; mRrjkf/kdkjgLr{ksi] jkT; izkIrdjuk ,oa [kksuk] jkT;ksadk

mRrjnkf;Ro] varjkZ”Vªh; fooknksadk ‘kkafriw.kZ ,oackg~;dkjhlek/kku]vkradokn ,oavarjkZ”Vªh; dkuwu] varjkZ”Vªh; dkuwu dh lhek,W o laHkkoukvksa

dh tkudkjhizkIrgksrhgSA

Paper IV

varjkZ’Vªh; laxBu&

varjkZ”Vªh; LrjijdbZlaxBucusgSatSlsjk”Vªla?k] la;qDrjk”Vªla?kAbulaxBuksa ds fuekZ.k dh vko’;drkD;ksagqb Z\

‘kkafrLFkkiukgsr q fo’oesabuds }kjkD;kdk; Z fd; s x; sAD;kmUgksus ‘kkafrLFkkiukesalg;ksxfn;kFkkA ;s laxBuegk’kfDr;ksa ds ‘kfDrizn’kZudkeap

ek= cudjjgx;sA la-jk-la- ds fofHkUuvaxksa ds }kjkD;k&D;ktufgrdk;Zfd;ktkrk g SA vkfnckrksa v/;;u dkykHkNk=kvksadksizkIrgksrkgSAHkkjr

lqj{kkifj”kndkLFkk;hlnL; cuukpkgrkgSAegk’kfDr;ksa ds e/; HkkjrdhfLFkfr dh tkudkjhgksrhgSA

MA IV Semester

Paper I

‘kks/k izfof/k&

jktuhfrfoKkudkoSKkfud v/;;u djus g srq ;giz”ui= Nk=kvksa ds fy, vR;aregRoiw.k Z gSAcfYdfdlhHkhlkekftd

fo’k; dk {k sf=; v/;;u bldsek/;e ls gksrkgSAizkdYiukD;k g S\ ;s dSlscurh g S\ L=ksr] funsZ’kuD;k g S\ bldsfofHkUurjhdsi; Zos{k.kiz’ukoyh]vuqlwphlk{kkRdkjD;k g S\ lkekftdvuqla/kku e sa ;s {k s=h; dk; Z dju s e sadSl s enndjrhgS\ vkfnckrksadk v/;;u] lkaf[;dh; dkiz;ksx] dEI;wVj]

QwVuksV~l] izfrosnu] ys[ku] rF;] ladyuvkfnckrksadk v/;;u djrsgSaA

Paper II

dqVuhfr ds fl)kar ,oaO;ogkj&

or Zekuesafo’o ds vU; ns’kksadschpdkb Z jk”Vª viukLFkkuldydqVuhfr ls ghcukldrkgSAdqVuhfrD;k g S\ O;kogkfjdrk] fl)kar] fu.k Z;&fuekZ.kfl)kar] lapkjfl)kardqVuhfrdfuekZ.k ds egRoiw.kZlk/kugSA ,sfrgkfldrkSjijdqVuhfrddkv/;;u ,oaorZekuiztkrkaf=d ; qxesafdlizdkj dh dqVuhfrdjk”Vªksadsfy, viuk;htkrh g SA jk”Vªh; ‘kfDr dh vfHko `f) ds lk/ku ds :iesadqVuhfr ,d izHkkohek/;e g SA

Paper III

ekuokf/kdkj] leL;k, W ,oalaHkkouk,W&

bliz’ui= ds ek/;e ls]ekuokf/kdkjD;k g S\ vko’;drk] egRo] cPpksaefgykvksa “kj.kkfFkZ;ksa ds fy,

ekuokf/kdkjvk;ksxfdlizdkjdk;ZdjrkgS ,oaD;kizko/kkugS] vkfnckrksa dh tkudkfj;kWizkIrgksrhgSAvarjkZ”Vªh; Lrjijjk”V ªh; ,oajkT;

Lrjijekuokf/kdkjvk;ksxfdlizdkjO;fDr ds vf/kdkjks a dklaj{k.kdjrkgSAvkfnckrksa dh tkudkjhizkIrgksrh g SA

Paper IV

varjkZ’Vªh; foRrh; laLFkkvksa dh jktuhfr&

bliz’ui= dsek/;e ls ;g tkur s gSafdfo’o ds fofHkUujk’Vªksa e s vkfFkZdlg;ksx ,oafodklgsrqfofHkUufoRrh; laLFkk,WlaxfBr g SatSls&fo’ocSad] varjkZ’V ªh; eqnzkdks’k] {k s=h; fodkl c Sad ;s lcr`rh; fo”o ds ns”kksa ds fodkl g srq

fdlizdkjmudhenndjrsgSaAvarjkZ”Vªh; txresau;hvarjk Z”V ªh; O;oLFkkD;kgSAvarjkZ”Vªh; foRrfuxe ds dk;ZD;k g S\ v arjkZ”Vªh; O;kikj]laxBu ,oamRrj&nf{k.klaca/k fdlizdkj ls dk;Zdjjgs g Sa ,o adSl s varjkZ”Vªh; txresafofHkUujk”Vªksadklg;ksxdjjg s gSaAcM+sjk”Vª NksVsjk”Vªksa ds lEeq[k D;kleL;k, W mifLFkrdjrs g Sa] vkfnckrksadk v/;;u fd;ktkrkgSAfo’o dh vkfFkZfoRrh; fodklesabliz’ui= dk v/;;u egRoiw.k Z g SA

**Department of History**

**Master of Arts**

**Course outcome**

* Students will be able to demonstrate broad knowledge of historical events and periods and their significance.
* Students will be able to deploy skills of critical analysis.
* Formulating persuasive arguments.
* Evaluating evidence and critiquing claims in the literature.
* Interpreetinga a varirty of primary sources.
* Identifying and accessing a sufficient base of primary sources.

**Programme outcome**

Programmeoutcome are statements conveying the intent of a program of study. Specifically,program outcome refer to what a student should know or be able to do at the knowledge and skills student will have abtained by the time they have received their intended degree.

**Semester -1**

**PSO -1: Paper - 1. Methodology of history**

1.Enhabce knowledge in history writing and also understand nature, scope and importance of history.

2.To develop conceptual knowledge in research methodology and formulate hypotheses, quantitative and qualitative analysis.

3.involve in awareness program of heritage and monuments as a primary sources of history.

**PSO 02 :Paper -2. Modern world**

1.They will learn about the French revolution and its impact of European countries.

2. unity and power makes people to strength which has showed in the French revolution in 1789.

3.how the industrialization had occurred and its affected on socio economic transformation of Europe.

**PSO-03: Paper-3. Ancient and medieval chhattisgarh**

1. How was Chhattisgarh at the time of kalchuri dynasty informs the students of the glorious history of Chhattisgarh.
2. How did Chhattisgarh come under the monopoly of Maratha rule in formulation related to the relationship between Maratha in Chhattisgarh.
3. Students understood about national movement and publicity participation in Chhattisgarh.

**PSO-04:Paper-4.Woman in Indian history in ancient & medieval period**

1. Students will gather knowledge about the history of education in india and the status of women education from earliest times to modern age.
2. They will be aware about the womens education in medieval times as well as regional trends of womens education in pre-colonial india.
3. They will be aware about the role of Christian missionaries in spreading female education,recent debates and indigenous initiatives at womens education in india.

**Semester - 2**

**PSO-05: Paper-1.Historiography**

1.Distinguidsh between the major arguments of different types of historiogrphical interventions.

2.Learn that this simple recounting of facts is always imbedded in particular historigraphical narratives, subject to which they will be introduced in this course and further reinforced in the MA history.

3.know about the method of writing history.

**PSO-06: Paper-2. Contemporary world**

1.students of history will learn about how the world became dividing after first world War among the super of the world.

2.they also learn how the aggressive forign policy of ltaly and germany influenced to the European countries and compelled to form allied powers of the world.

3. gradually, the 2 world war had occurred and the league of nations was established aftermath of the war which affected to the world politics .

**PSO-07: Paper-3. Modern Chhattisgarh**

1. Study of the political developments of Chhattisgarh.
2. Study of the tribal culture and folk arts of Chhattisgarh.
3. The students will be able to understand the whole regional history.
4. Will be able to elaborate the regional cultural developments.

**PSO-08: Paper-4. Women in modern india**

1.They will acquire knowledge about the emergence of women studies in india from 1980 to till that.

2.they will gather knowledge about the contributaion of women towards the socirty through political, social and religious fields.

3.They government became active to the developments of women empowerment by introducing new rules and regulations which also are learn as history student.

**Semester - 3**

**PSO-09:Paper-1. Indian polity and economy in sultanate period(1200 – 1526)**

1. They can achieve knowledge how to develop Indian feudalism and evolution of the political structures of early-medieval north and south Indian.
2. They can learn how the conquering of lslam had intiated in india and had transformed of Indian culture,society,religion and agrarian structures changing scenatios after the advent of the lslam in Indian.

**PSO-10: Paper-2. Society and culture in sultanate period (1200 – 1526)**

1.They will acquire knowledge how the economic,social and religious development had made during the medieval European society.

2.They can be learning about the socio-economic and political conditionand of feudal organization of production,towns formation, trade and commerce,technological developments and crisis of feudalism in Europe.

**PSO-11: Paper-3. History of national movement (1857-1922)**

1.they will learn from this chapter about the local rebellion and movements like the indigo rebellion,the deccan riots,the growth of the new middle class.

2. the age of associations, the Aligarh movement, the arya and the prarthana samaj aftermath of 1857.

3.they will learn the real historiography of Indian nationalism, birth of Indian national congress.

4. the moderates and the extremists, partition of Bengal, the swadeshi movement in Bengal in 1905.

**PSO-12: Paper-4. Cultural history of india (beginning to 1526)**

1. They can understand about the colonial nature of state during 200 years rule of the british power in this land.
2. Hey can gather knowledge about how the Indian society, politics, religion and economy had changed during the companys rule in india.
3. They will aware about in which situation the Indian nationalism had raised among the Indian people for freedom.

**Semester -4**

**PSO-13: Paper-1. Indian politiy and economy in mughalperiod(1526-1750)**

1.they acquire knowledge towards the turkeys invasion & struggle for empire in north-western india and foundation of the mughal rule in india.

2.students will learn about the mugham Indian society,economy and culture after consolidation of the mughal rule india.

3. they will learn about how the regional powers had been raised in different parts of india after downfall of the mughal empire of delhi.

**PSO-14: Paper-2.Society and culture in mughal period (1526-1750)**

1. Know about the social order in vogue during Indus and vedic civilization.
2. Know about the influence of Buddhism,Jainism and other sects on the people.
3. Students will know about the political,social,cultural changes during the (1526-1750)
4. Student will understand the nature of social and cultural changes.

**PSO-15: Paper-3. History of Indian national movement (1922-1947)**

1.The main objective the of this course is to familiarize the students with the main commercial,political,military and ideological aspects of the east india company rule in india.

2.Throughout the course the students study the impact of british rule on india and the Indian reactions to this rule ranging across a wide range of subject.

**PSO-16: Paper-4. Cultural history of india (1526-1950)**

1.Establish the chronology, the location and the features of the many sultanate and mughalcities and settlements in delhi.

2.Thry will access architechural and epigraphical materials and learn how to correlate these with narrative, textual materials.

3.know about development and growth of modern education under britishindia.

4.analyze the impact of orientalist-anglicist debate on education system in britishindia.

**Bachelor of Arts ;-**

**Course Outcome**

To familiarize the student with the culture, civilization and development of political and social institution in India.

To develop awareness towards foreign inversion on India and thus effect on Indian culture and life of the people.

To prepare the student to understand imperialize and colonialism and its effect on India. To understand the nature and development of freedom struggle.

To develop awareness towards the leading events of the history of Europe, America and Asia and their co-relation to other parts of the world.

**Programme Outcome**

B.A. I

History of India from the beginning to 1206 A.D.

Program Specific Outcome

* To familiarize the students to the political, social, economic and cultural aspects of Ancient India.
* To prepare the students to understand the cultural, social, political, economic and literary developments and changes in ancient India.

World History (1453-1890)

Program Specific Outcome

* To familiarize the students to the history of modern world.
* To understand the co-relation of the events happening in the countries of Europe, Asia, and America.

B.A. II

History of India (1206 -1761)

Program Specific Outcome

* To familiarize the students to the political, social, economic and cultural aspects of Medieval India.
* To prepare the students to understand the foreign invasions and itscultural, social, political, and economic impact on India.

World History (1789-1871)

Program Specific Outcome

* To familiarize the students to the leading events of world history.
* To prepare the students to understand international events and itsrelation to contemporary India history.

B.A. III

History of India (1761-1950)

Program Specific Outcome

* To familiarize the students to the political, social, economic andcultural history of India during British rule.
* To prepare the students to understand the conflict between British and Indians, social, economic effect of British rule Development of National movement etc.

World History (1871-1945)

Program Specific Outcome

* To familiarize the students to the main events of world history and knowledge of international institution and their role in international relations of the countries.

**Department of English**

**BA, BSc &BCom (PART – I, II & III)**

**FOUNDATION COURSE**

**(ENGLISH LANGUAGE)**

**Objectives of the Programme:**

The objectives of the prescribed course are:

* To develop an aesthetic sense and love for literature, culture, tradition and language in learners.
* To help them appreciate ancient classic texts.
* To encourage them towards further learning.
* To provide learners with a basic understanding of the language.

**COURSE OUTCOME:**

The subject Foundation Course has been divided into two separate papers; Paper-II – English Language. The paper is of maximum marks 75 and minimum pass mark is 26. The candidate has to pass each paper separately.

At the end of the course in the English Language the student can:

* **Read** and **Write**  in English
* **Knowledge Acquisition -** Student will acquire knowledge of the use and interpretation of the texts.
* **Engage** student in the life-long learning process.
* **Assist** students in the field of literacy, intellectuality, flexibility and adaptability to different cultures.
* **Understanding** – Students will develop an understanding of the less familiar texts and will read them more for the proper usage.
* **Description** – Students will able to describe the incidences and events in the language
* **Expressive** - The learning of the literature will make them more expressive and sharpen their artistic outlook.

**PROGRAMME SPECIFIC OUTCOME:**

The course of Foundation Course English Language :

**PSO: BA/BSc/B Com Part-I – English Language and Indian Culture**

The paper highlights ancient and old cultural traditions in Ancient India. The paper enables students to:

* To read and understand about Ancient and Old Indian culture and traditions
* Ancient Indian texts, myths and the impact of Ancient Indian culture on other cultures
* The age of Ramayana and Mahabharata and the impact of these epics in the development of the culture and traditions of the South-Asian countries
* Impact of Buddha and Buddhism in India and the neighbouring countries. Also, the development of Buddhism as a religion worldwide
* Ancient Indian Science and knowledge; India being the centre of literature and cultural exchange
* The old India and her boundaries, the rich heritage, the flourishing culture, Ancient Indian civilization, Harappa, Mohenjo-Daro and Indus-River Valley.
* The Ancient Indian Literature and the impact of the literature worldwide.

**PSO: BA/BSc/B Com/BCA Part-II – Foundation English**

The paper focuses on the Ancient Indian Science and the cultural ethics of India. The paper acquaints students with:

* The fine knowledge of Ancient India
* Ancient Indian Scientists, Mathematics and Mathematicians, medicines, medical practices and the ancient texts based on the same
* The colonial Indian culture and the impact of the colonization on the Indian sub-continent
* The introduction of Western Science and Western Culture
* Modern Indian scientists and the contribution of the Indians in the development of the Modern Science
* The basic knowledge of the language with the fine grammar, phonetics and the vocabulary
* Students will collect much information on the Science in Ancient India with the knowledge of the English language

**PSO: BA/BSc/B Com/BCA Part-III – Aspects of English Language and Development**

The paper is a collection of essays on the general information and awareness; also it helps students to advance in the language. Students also get glimpse of the English Literature with the collections of short-stories in the prescribed book. The textbook also helps students in:

* Collecting the information on the development and the advancement of the modern technique
* The geography of the state, soil, crops and water
* General information on the types of pollution and the increasing water crisis
* The ethics and conducts of the day-to-day life
* English language and the basic genres of the literature
* Famous essayists and short-story writers
* Famous Indo-Anglian and Anglo-Indian writers
* Texts describing the achievements of the modern Indians
* The development of modern science and technique in India
* Sci-fi and other such forms of the literature
* Also, the learners will develop a positive attitude towards the future and love for learning
* Advance grammar, sentence formation and vocabulary.

**B.A. ENGLISH LITERATURE**

**PROGRAMME OUTCOME (POs)**

1. To help students to have a strong foundation in English Literature and develop comprehension knowledge of various forms of literature poetry, drama, prose, fiction and literary history.
2. To make students proficiently oral & written communication.
3. Perspective of literary movements that existed in different ages.
4. Develop the knowledge of grammatical system of English Language.
5. Apprehend different cultures and cultural sensibilities around the world.
6. Define literary theory and terms in criticism.
7. Expose the students to a wide range of writing from British/American and Anlophone origin.
8. To recognize and appreciate the real world context of knowledge.
9. To identify language variants (formal/informal, American/ British) and use the appropriate variety in a given context.
10. Practice creative thinking and expression.
11. Write analytically in different formats like essays, reviews etc.
12. To articulate the relations among culture history & texts.

**COURSE OUTCOME (COs)**

**B.A. – I ( Paper – I )**

**Unit – I** :**Annotations.**

**Unit – II &III : POETRY**

Discuss and describe the particular works of Shakespeare , John Donne, John Milton, John Dryden and Alexander Pope.

**Unit- IV: PROSE**

Determine the prose style of Fir Francis Bacon, Addision and Rechard Steele with the selected texts.

**Unit- V: DRAMA**

Discuss and describe the writing style of Shakespeare with his particular works.

**Unit- VI: FICTION**

Discuss on the contribution of Jonathan Swift to the English literature.

**Unit- VII: LITERARY TERMS**

Discuss and define the kinds of literary terms and Movements, theories.

**B.A- I (PAPER 2)**

**Unit-I**: **ANNOTATIONS.**

**Unit-II & III: POETRY.**

Poetry of William Blake, William Wordsworth, S.T Coleridge, P.B Shelley and John Keats, Lord Tennyson,Robert Browning.

**Unit-IV: PROSE**

The major works of Charles Lamb and William Hazlitt.

**Unit-V & VI: FICTION**

Works of the female writer Jane Austen and Charles Dickens.

**Unit-VII: LITERARY TERMAS AND TOPICS**

Colonialism and Imperialism, Reform Acts , Faith and Doubts etc.

**PROGRAM SPECIFIC OUTCOME (PSOs)**

**B.A- I (PAPER 1)**

**Unit-I:ANNOTATIONS.**

**Unit-II &III:POETRY.**

* Determine the writing style of Shakespeare
* Analyze the literary term Metaphysical poetry with specific works of John Donne.
* Various elements of poetry such as tone, form, stanza etc.
* Identify the poetic literary way in specific texts of Renaissance period.

**Unit- IV: PROSE**

* Assess Bacon's educational essays with the selected works.
* Determine the contribution of Addision and Steele as a prose writer.

**Unit- V: DRAMA**

* Describe and discuss the themes brought up in Shakespeare's play.
* Identify the major literary characters in Shakespeare's play The Merchant of Venice.

**Unit-VI: FICTION**

* Categorize the genre of Novel,novella and short story.
* Discuss on the contribution of Swift to the development of English novel.

**Unit-VII: LITERARY TOPICS**

* Renaissance, Humanism, Reformation , The Earlier Drama , Periodical Essays etc.

**B.A I (PAPER 2)**

**Unit-I:** ANNOTATIONS.

**Unit-II &III:POETRY.**

* Discuss and describe the Romantic age of the English literature with the work of Romantic poet William Wordsworth, Coleridege and Shelley, Keats, Browning etc.
* Define the major events and movements of the Romantic age.
* Identify the influence of Romantic poets to the English literature.

**Unit- IV: PROSE**

* Discuss and identify deferent prose style and prose writers.
* Assess the contribution of CharlesLamb to the English literature.

**Unit-VI: FICTION**

* Study of Female writings with the work of Jane Austen's Pride and Prejudice.
* Identify the Dramatic style of Charles Lamb.

**Unit-VII: LITERARY TOPICS**

* Realism and the novel, the Victorian novel, Varieties of Romantic and Victorian poetry etc.

**COURSE OUTCOME (Cos)**

**B.A II (PAPER I)**

**Unit- I ANNOTATION.**

**Unit- II & III POETRY**

* Discuss the forms of poetry with the particular poems of W.B Yeats, T.S Eliot, Dylan Thomas and John Larkin.

**Unit- IV PROSE**

* Identify the writing styles of Bertrand Russell and Oscar Wilde.

**Unit- V DRAMA**

* Contribution of G.B Shaw to English literature.

**Unit- VI FICTION AND SHORT-STORIES**

* Rudyard Kipling and short story writer Katherine Mansfield.

**Unit- VII LITERARY TERMS AND THEORIES.**

**B.A II (PAPER II)**

**Unit- I ANNOTATION**

**Unit- II & III POETRY**

* Famous poetries of sasson,Owen ,W.H.,Auden, Ted Hughes.

**Unit- IV PROSE**

* Writing styles of Robert Lynd & H Belloc.

**Unit-V DRAMA**

* John Galsworthy &J.M.Synge.

**Unit-VI FICTION**

* William Golding

**Unit-VII LITRARY TERMS.**

**PROGRAM SPECIFIC OUTCOME (PSCs)**

**B.A II (PAPER I)**

**Unit-I Annotation.**

**Unit- II & III POETRY**

* Discuss and identify the contribution of T.S. Eliot to the English Literature.
* Determine the various writings styles of W.B.Yeats.
* Describe and discuss the themes of the poems by Dylan Thomas and Larkin.

**Unit- IV PROSE**

* Explain the movement aestheticism.
* What is Bertrand Russell& Oscar Wilde’s writing style.

**Unit – V FICTION**

* Discuss G.B.Shaw as a modern dramatist.
* Identify the contribution of the nobel prize awarded author G.B.Shaw to English Literature.

**Unit- VI FICTION & SHORT STOTORIES**

* Discuss the themes of the novel of Rudyard Kipling.
* Identify the works of the modern female writer Katherine Mansfield.

**Unit – VII LITRARY TERMS**

* Elegy, sonnet, ode, morality play & miracle play, one act play, interlude.

**B.A. – II (PAPER – II)**

**Unit – I ANNOTATION**

**Unit – II & III POETRY**

* Poetry the poetic styles of W.H.Auden, Ted Hughes, Sasson,Owen W.H.

**Unit – IV PROSE**

* Identify the prosaic writing of Robert Lynd &H.Belloc.

**Unit – V DRAMA**

* Dramatics themes and includes specific mode of writers work represented in performance.
* Discuss J.M. Synge as modern dramatist.

**Unit- VI FICTION**

* Explain the major themes of the novel Lord of the flies by William Golding.

**Unit – VII LITRARY TERMS**

* Simile, metaphor, alliteration, onomaetopoea, ballad,epic,dramatics& monologue.

**COURSE OUTCOME ( Cos)**

**B.A. – III (PAPER -I)**

**Unit – I ANNOTATION.**

**Unit- II & III POETRY**

* Toru Dutt, Rabindranath Tagore, Sarojini Naidu, Kamala Das, Gauri Deshpande, Jayant Mahapatra, K.N. Daruwala, &Shiv K. Kumar.

**Unit – IV PROSE**

* Nirad C. Choudhary& Dr. S. Radhakrishnan.

**Unit – V Drama**

* Girish Karnad& Tendulkar.

**Unit – VI FICTION**

* R.K. Narayan.

**Unit – VII LITRARY TERMS**

* Lyric, subjective poetry, couplet, fable, hymn, allegory &autobiography.

**B.A. – III ( PAPER – II)**

**Unit – I ANNOTATIONS**

**Unit – II & III POETRY**

* Walt Whitman, Carl Sandberg, Emily Dickinson&E.E. Cummings.

**Unit – IV PROSE**

* William Faulkner, W. Carlos Williams & Walt Whitman.

**Unit – V DRAMA**

* Miller & Eugene O’Neill.

**Unit – VI FICTION**

* E. Hemingway & W. Faulkner.

**Unit – VII LITRARY TERMS**

* Naturalism, realism, art for art’s sake, poetic-drama, symbolism, American renaissance & Existentialism.

**PROGRAM SPECIFIC OUTCOME (PSCs)**

**B.A. – III (PAPER – I)**

**Unit – I ANNPTATIONS & SHORT ANSWERS.**

**Unit – II & III POETRY**

* Describe and identify the poetry of major writers like Toru Dutt, Tagore, Sarojini Naidu, Kamla Das, Gauri Deshpande, Jayant Mahapatra,K.N.Daruwala, Shiv K. Kumar.
* Discuss Rabindranath Tagore as a national poet of India with the special reference to his Gitanjali.
* Describe Kamla Das as a confessional poet.
* Discuss the contribution of Jayant Mahapatra to Indian English Literature.

**Unit – IV PROSE**

* Discuss the litrary career of Nirad C. Choudhary with reference his works “My Birth Place”
* Identify the contribution of Dr.S.Radhakrishnan as an Indian writer.

**Unit- V DRAMA**

* Identify the litrary career of Girish Karnad with his works hyavadana.

**Unit – VI FICTION**

* Describe the fictional writing of Malgudi of the famous Indian writer R.K. Narayan.

**Unit – VII LITRARY TERMS**

* Define the term autobiography with major autobiographical works.
* Discuss what is poetry and its selected types like lyric, subjective poetry, hymn,couplet.

**B.A. – III ( PAPER- II)**

**Unit- I ANNOTATIONS AND SHORT ANSWERS.**

**Unit – II & III POETRY**

* Describe the litrary journey of Walt Whitman, Emily Dickenson.E.E. Cummings, & Carl Sandberg.

**Unit – IV PROSE**

* Identify the writing styles of famous American writers Walt Whitman, William Faulkner, Carlos William.

**Unit- V DRAMA**

* Describe the various dramatic themes of Eugene O’ Neill,& Arthur Miller.

**Unit- VI FICTION**

* Discuss the contribution of Hemingway and Faulkner to American Literature.

**Unit – VII LITERARY FORMS AND THEORIES.**

* Define some American literary movements ,Naturalism and realism, existentilism, symbolism.
* Discuss some modern literary terms Art for Art’s sake and poetic drama.

**Department of Hindi**

**BA, BSc &BCom (PART – I, II & III)**

**FOUNDATION COURSE**

**(Hindi Language)**

**Program Outcomes (POs):** dk;ZØeifj.kke

ch ,**/** chd‚ech ,l lh f=o"kÊ; dk;ZØeesaços'k ds bPNqdfo|kFkÊdk;ZØe dh lQyrkiwoZdlekfIri'pkrÇgnhHkk"kk ds fo'ks"klanHkZesa l{kecurkgSA

ikB;Øedkmnn~s';%&

mPpf'k{kkesaikBîØeksadkslkekftdçklafxdrknsus ds fy, foÜofo|ky; vuqnkuvk;ksx }kjkvuq'kaflrekxZn'kÊfl)karksa ds vuqlkjvkèkkjikBîØe ¼fgUnh Hkk"kk½ dh 'kq:okrgqÃAftldkmís'; fo|kÆFk;ksaesalEçs"k.kdkS'ky ds fodkl ds lkFkghlkFk] fofHkUufo"k;ksa dh cqfu;knhvoèkkj.kkvksadkKkurFkkns'k dh laL—r] fojklr] Hkkjrh; thou ewY; vkSjlektO;oLFkk] jkf"Vª; miyfCèk;ksavkSjfodkl dh fn'kkvksa ds lkFkfoÜo ds vkèkqfudifj–'; dkcksèktkx`rdjukgSA

1 LukrdLrjijfo|kÆFk;ksaesalaçs"k.kdkS'ky ds fodkl ds lkFkghlkFkfofHkUufo"k;ksa dh cqfu;knhvoèkkj.kkvksa ds fy, Hkk"kkdkvè;;u vfuok;ZgSA

2 dyk ds fo|kÆFk;ksaesaoSKkfudfodklvkSjledkyhurduhdhçxfr dh tkudkjhnsukgSrksfoKku o okf.kT; fo|kFkÊHkkjrh; lkfgR; dykvkSjlaL—fr dh psruk ls ifjfprdjkukA

3 fo|kÆFk;ksaesavarjvuq'kklukRedKkuvkSjpsruk ds lkFk ,d lekos'khvkèkqfudHkkocksèkvkSjlexz thou –f"VdkfodklgksldsA

4 Kku] fo"k;] oLrq] Hkkjr dh lkaL—frdfojklr] foKkuvkSjfodkl'khyns'kksa dh leL;kvksa ds ekè;e ls ghÇgnh ds Hkk"kkKkulaçs"k.kdkS'kydkfodklfd;ktk, A

5 fo|kFkÊÇgnhds :iksa ls ifjfprgksldsamUgsaviusledkyhulkekftdvkSj ,sfrgkfldifjos'k dh psrukHkhfodflrgksldsA

**Course Outcomes (COs):** ikBîØeifj.kke

1 ÇgnhHkk"kk ds O;kdj.kfu;eksadks le>ukrkfdfcuk =qfV;ksa ds Hkk"kk ds mi;ksxdksfodflrfd;ktkldsA

2 ledkyhuvko';drkvksa ds lg;ksx ls ÇgnhHkk"kk o lkfgR; dks le>us ds fy, A

3 ;qokvksa ds chpÇgnhHkk"kkdkmi;ksxdks c<+koknsukvkSjçlkj ds fy, A

4 çfl) lkfgR;dkjksa dh –f"V ls çsj.kknk;d thou n'kZudksfodflrdjuk A

5 dk;kZy;huÇgnh ds ekè;e ls vfèkdkjhi= fy[kus ds dkS'kydksfodflrdjukA

6 cqfu;knhlwpukdkS'kydksv|ruvkSjfoLr`rdjus ds fy, rkfdfo|kFkÊÇgnhdaI;wÇVx ds egRovkSjlaHkkoukvksa ls ifjfprgksldsaA

7 vkÃlhVh dh enn ls Hkk"kk ds mi;ksxdks c<+kus ds fy, A

8 Hkkjrh; laL—frvkSjijaijk ds lkFkÇgnhesalaokndkS'kyvkSjlaçs"k.k dh n{krkvÆtrdjvf[kyHkkjrh; vkSjjkT; lsokvksa dh çfr;ksxhijh{kkesalfEefyrgksldsA

9 ikBîØedkslekIrdjus ds mijkarfuEufyf[krifj.kke fey ldrsgSa

10 Hkkjrh; Hkkjrh; yksdlsokvk;ksx dh çfr;ksfxrkewydijh{kkesacSBus dh ;ksX;rkçkIrgksuk

11 vuqokndds :iesans'k ds ç'kklfudO;oLFkkvFkokfofoèk {ks=ksaesalgk;d ds :iesafu;qfä

12 jpukRedys[ku ds }kjkHkkjrh; laL—frvkSjlkfgR; ds {ks= esaviuk ;ksxnku ns ldrsgSaA

13 blikBîØe ds ekè;e ls fofHkUuljdkjhmPpljdkjh ,oaxSjljdkjhlaLFkkutSls

Hkkjrh; jsyosHkrÊcksMZ] HkkjrlapkjfuxefyfeVsM] Hkkjrh; [kk| fuxe] la;qä j{kkvdkneh]

Hkkjrh; bLikrçkfèkdj.kvkfnijdk;ZjrgksldrsgSa

14 cSadksaesafgUnhvfèkdkfj;ksa dh fu;qfärFkkfofHkUu [ksyksagsrqdesUVsVj dh fu;qfäA

16 fQYe] nwjn'kZu] foKkiu] fMLdojhpSuyvkfnesafgUnhesaMÇcxdjusgsrqfu;qfäA

16 dqNcgqjk"Vªh; dEifu;ksa }kjkfgUnhHkk"kk ds tkudkjksadksçkFkfedrkA

17 Ldwyksa] egkfo|ky;ks] foÜofo|ky;ksaesafgUnhvè;kiu&çkè;kiugsrqf'k{kdksa&çkè;kidksa ds

:iesafu;qfäA

**Program Specific Outcomes(PSOs):** dk;ZØefof'k"Vifj.kke

**B.Com./B.Sc. /B.A.- I Year**

**F.C.- I Paper- (Hindi Language)**

**mís';**

ikBîØela'kksèkudkvkSfpR; O;kdj.k ds cqfu;knhKkulaçs"k.kdkS'kylkekftdlans'k ,oaHkk"kkÃ n{krkdksè;kuesa j[krsgq, ;g ikBîØeçLrkforgSA

1 iYyoula{ksi.kikfjHkkf"kd 'kCnkoyhvkfn ds egRo o mi;ksfxrk ls voxrdjkukA

2 dgkuhdforkO;ax ds ekè;e ls lkfgR; dh fofHkUufoèkkvksa ls voxrdjkukA

3 dk;kZRedÇgnhmldsvuqç;ksxksavkSjvuqoknçfØ;k ls ifjfprdjkukA

4 ljdkjhvFkokxSjljdkjhdk;kZy;ksaesai= O;ogkj ds fofHkUu :iksa ls voxrdjkukA

5 nsoukxjhfyfidh ,sfrgkfldrk o oSKkfudrk ls ifjfprdjkukA

6 daI;wVs'kuyHkk"kkfoKku ds ekè;e ls baVjusV o uohurduhd ds mi;ksxgsrq l{kecukukA

7 ÇgnhHkk"kk ds ekud :i o ekudhdj.k dh çfØ;k ls ifjfprdjkukA

**B.Com./B.Sc. /B.A.- II Year**

**F.C. – I Paper- (Hindi Language)**

**mís';**

ikBîØela'kksèkudkvkSfpR; fo|kFkÊpÆpr ,oalqçfl) O;fä ds ys[k ds ekè;e ls lekt ,oajk"Vª fgr ds lkFk&lkFkO;fäRofodklfo"k;deqíksa ls ifjfprgksldsarFkkO;kdjf.kd ,oaHkk"kkfo"k;dçLrkforikBîØe ds ekè;e ls ÇgnhHkk"kklacafèkrç;ksxi{k ls ifjfprgksrsgq, çfr;ksxhijh{kkvksa dh –f"V ls KkuktZudjldsa(B.Com)

1 ÇgnhHkk"kkdksç'kklulapkjtuekè;evkSjKkufoKku ds fofHkUuvuq'kkluks dh Hkk"kk #iksa ls ifjfprdjukA

2 Hkk"kk ds O;kikfjdjpukxrvkSjlkfgfR;dlanHkks± dks –f"Vxr j[krsgq, rFkkNk=ksaesa ,sfrgkflduSfrdoSKkfudrFkklkaL—frd le>fodflrdjus dh –f"V ls lkfgR; fucaèk :idks j[kkx;kA

3 fons'khHkk"kk :iksa ls fo|kÆFk;ksa ds fy, jkstxkj dh laHkkoukvksaesavfHko`f) gksxhrFkkÇgnh ds Hkk"k.kvuqç;ksxksadkfoLrkjHkhgksxkA

4 fo|kÆFk;ksaesaHkk"kk ds O;kogkfjd] jpukxr ,oalkfgfR;dlanHkks± dks –f"Vxr j[krsgq, muesa ,sfrgkfld] uSfrd] oSKkfudrFkklkaL—frd le>dkslkfgR; ds fucaèk :iksa ds ekè;e ls fodflrdjukA

5 laKkloZukefo'ks"k.kvkSjfØ;kfo'ks"k.klafèklekl ds }kjkÇgnhdkO;kdjf.kd ,oaO;ogkfjdKkuçnkudjukA

B.Com./B.Sc. /B.A.- III Year

F.C. – I Paper-(Hindi Language)

mís';

vkèkkjikBîØe dh lajpukvkSjvfuok;ZikBîiqLrdÇgnhHkk"kk ,oalelkef;dhdkla;kstublrjgfd;kx;kgSfdlkekU; Kku dh fo"k; oLrqfodkl'khyns'kksa dh leL;kvksa ds ekè;evkèkkjvkSjlkFk&lkFkÇgnhHkk"kkdkKkuvkSjmldslaçs"k.kdkS'kyvÆtrfd;ktklds A blhç;kstu ls O;kdj.k dh varoZLrqdksfofHkUufoèkkvksa dh laxhrjpukvksavkSjlEekudkKku dh ikBîlkexzh ds lkFkvarxZrfd;kx;kgS A vè;;u vè;kiu ds fy, iwjhiqLrd dh ikBîlkexzhgSvkSjvH;kl ds fy, foLr`rç'ukoyhgSA ;g ç'ui= Hkk"kkdkgSvr% ikBîlkexzhdkO;k[;kRed ;k vkykspukRedvè;;u visf{krugÈgSAikBîØevkSjikBîØelkexzhdkla;kstufuEufyf[krikapbdkb;ksaesafd;ktkrkgSA

ikBîØela'kksèkudkvkSfpR; fuèkkZfjrikBdkvè;;u ,oaÇgnhHkk"kkç;ksx dh O;kogkfjç.kkfy;ksa ls fo|kÆFk;ksadksifjfprdjkukrFkkHkk"kkç;ksx dh lkekuv'kqf);ksadksnwjdjus dh –f"V ls ikBîØerS;kjfd;kx;kgSfo|kÆFk;ksa ds fy, ikBîØedkfoLrkjcgqrT;knkukgksbldkè;ku j[kkx;kgS (B.Com)

1 ÇgnhHkk"kk ds ç;ksxvè;;u rFkkvèkqukruHkk"kkO;ogkjksa dh rFkkorZekuHkkjresafofHkUu {ks=ksa ds fodkl ds vk;keksa dh tkudkjhnsukA

2 ÇgnhHkk"kkvkSjfodkl'khyns'kksa dh leL;kvksa ls lac) lkekU; Kku ds ifjis{k esaÇgnhHkk"kk

ds laçs"k.kdkS'kydksçkFkfed :iesaegRodksKkrdjukA

3 'kkldh; rFkkO;ogkfjdHkk"kkKkugsrqdFku dh 'kSfy;kadk;kZy;] i=kpkjrFkkvuqoknçfrosnufuea=.k i=ksa ds Lo:iksadksjpukxr ,oaç;ksxxrvkèkkjksaij le>ukA

4 Hkk"kk ,oalkekU; Kku ds fo"k;ksaesa ,d:irkykus ds fy, budkvU;ksU;kfJrla;kstuHkhvè;;u ,oavè;kid dh lqfoèkk ds fy, fd;kx;kgSA

**B.A. – Hindi Literature (**ÇgnhlkfgR;**)**

**Program Outcomes (POs): कार्यक्रमपरिणाम**

ch ,ÇgnhlkfgR; f=o"kÊ; dk;ZØeesaços'k ds bPNqdfo|kFkÊdk;ZØe dh lQyrkiwoZdlekfIri'pkr l{kecurkgS A

1 ÇgnhHkk"kk o ÇgnhlkfgR; ds bfrgkl o fodkl ls voxrgksuk A

2 ÇgnhHkk"kk ,oamldhcksfy;ksadkKkurFkkÇgnhO;kdj.k ls ifjfprgksuk A

3 x| foèkkvksadgkuhukVdmiU;klfucaèk ds ekè;e ls Hkkjrh; lektèkeZn'kZu

bfrgkl o ijaijkdkKku A

4 leUo;okn ds fy, NÙkhlx<+h Hkk"kk o lkfgR; dh vuqdwyrkdks le>uk A

5 ledkyhuvko';drkvksa ds lg;ksx ls ÇgnhlkfgR; dkcksèk A

6 çkphudky ls vkèkqfud ;qxrdÇgnh dh voèkkj.kkdkewY;kadudjus o lkfgR;

ds ekè;e ls lektdksvkSjvfèkdfudV ls tkuus o le>us esa l{ke A

7 ÇgnhlkfgR; ds vè;;u ds ekè;e ls çkphueè;;qxhu o vkèkqfudHkkjrh; lekt

dh lkekftdvkÆFkdvkSjlkaL—frdifjfLFkfr;ksa ls voxrgksuk A

8 ÇgnhlkfgR; ds ekè;e ls fo|kÆFk;ksaesauSfrdewY; lkekftdewY; o jk"Vªh; ewY;ksa

ds çfrvkLFkktkx`rgqÃ A

9 fo|kÆFk;ksaesaÇgnhHkk"kk o lkfgR; dks le>us vè;;u vkLoknuvkSjewY;kadu dh

{kerkdkfodklgqvk A

10 ÇgnhlkfgR; dh fofHkUujpuk o jpukdkjksadkifjp; çkIrgqvk A

11 ÇgnhlkfgR; fo|kÆFk;ksaesaltZukRed {kerk o HkkoukRedfodklesalgk;dgS A

**Course Outcomes (COs):** ikBîØeifj.kke

1 ÇgnhlkfgR; dh fofoèkfoèkkvksa ls ifjfprgksuk A

2 lkfgR; ds iBu&ikBu ds ekè;e ls ewY;ksa ds egRodksçnÆ'krdjukA

3 lkfgR; vkSjHkk"kk ds ekè;e ls lkekftdeqíksadklekèkkudjukA

4 fofHkUulkfgR;dkjksa ds O;fäRo ,oa —frRo ls ifjfprgksuk A

5 fo|kÆFk;ksadksÇgnh dh ewyvkèkkjHkk"kk,arFkkfofHkUucksfy;ksa ls voxrdjkuk A

6 ÇgnhHkk"kk o lkfgR; ls tqM+h ,sfrgkfldlkaL—frdikjaifjdlkfgfR;d 'kS{kf.kd

i`"BHkwfedh ;k=k ls ifjfprdjkuk A

7 ikBîØe }kjkvoljks dh miyCèkrk%&

1- ljdkjhlaLFkkuksa ,oalkoZtfudmiØeksaesafgUnhvuqokndksa ,oafgUnhvfèkdkfj;ksa dh fu;qfäA

2- cSadksaesafgUnhvfèkdkfj;ksa dh fu;qfärFkkfofHkUu [ksyksagsrqdesUVsVj dh fu;qfäA

3 iVdFkkys[kd]laoknys[kd] foKkiuys[kd ds :iesafu;qfäA

5 çwQ 'kksèkd] fuosndvkSjlw= lapkydds :iesafu;qfäA

6 ÇçVehfM;k ,oabysDVªkWfudehfM;kesafofHkUuinksaesafu;qfäA

7 fQYe] nwjn'kZu] foKkiu] fMLdojhpSuyvkfnesafgUnhesaMÇcxdjusgsrq

fu;qfäA

8 dqNcgqjk"Vªh; dEifu;ksa }kjkfgUnhHkk"kk ds tkudkjksadksçkFkfedrkA

9 Ldwyksa] egkfo|ky;ks] foÜofo|ky;ksaesafgUnhvè;kiu&çkè;kiugsrqf'k{kdksa&çkè;kidksa ds :iesafu;qfäA

**Program Specific Outcomes (PSOs):**dk;ZØefof'k"Vifj.kke

**ch ,çFkeo"kZ ¼Çgnh lkfgR;½**

**çFkeç'ui=&çkphuÇgnhdkO;**

**mís'; ,oaçLrkouk**

çkphu ls rkRi;ZgSvkèkqfuddky ls iwoZdkdky A lghvFkZesaÇgnhHkk"kkvkSjlkfgR; dkfodklvkfndky ls 'kq: gksrkgSAblesaèkkÆedrFkk ,sfrgkfldnksçdkjdklkfgR; feyrkgStksçcaèk] eqäd ]jklks] Qkxq] pfjr] lqHkkf"krvkfnfofoèkdkO;:iksaesavfHkO;aftrgSAeè;dkyhulkfgR; dh i`"BHkwfe ds :iesablsçfr"Bkfirfd;ktkrkgS A

eè;dkyhudkO; esaHkfädkO; tgkayksdtkxj.kdksLojnsusokykgSoghjhfrdkyviusvykSfddJ`axkfjdkifj–'; esarRdkyhulkekftd] lkaL—frd] jktuhfrdfLFkfr;ksadkscsykSlvfHkO;aftrdjrkgSAvr% Hkk"kk] laL—fr]fopkj] ekuork] dkO;:irk ] ykSfddrk&ikjykSfddrkvkfn –f"V ls bldkvè;;u vR;ko';d gSA

1 çkphudkO; ds çfrfo|kÆFk;ksa ds euesavfHk#fpmRiUudjuk A

2 fo|kÆFk;ksa ds le{k eè;dkyhudkO; dh ledkyhurkdksLi"Vdjuk

3 dchj ds çxfr'khyLo:i o lkf[k;ka dh çklafxdrkdko.kZuvoxrgksukA

4 eè;;qx dh lkfgfR;dxfrfofèk;ksa ls voxrgksuk A

5 çkphuÇgnhdkO; ÇgnhlkfgR; ds rhudky [kaMksa ls ifjp; djkrkgSA

6 eè;dky dh dkO; ço`fÙk;ksa ,oadfo;ksadklapf;rfd;kx;kgS

7 lwjnkl dh —".kyhyk }kjkthou&n'kZudko.kZuA

8 HkfäiaFk ds lkFkrqylhnkl dh jkeHkfädkvkLoknudjukA

**f}rh; ç'ui= &**

**ÇgnhdFkklkfgR;**

**mís'; ,oaçLrkouk**

x| dh çeq[k foèkkvksadkæqrfodklbudhyksdfç;rkdkçek.kçLrqrdjrkgSAblesavkèkqfud thou viuhfofoèkdfe;ksa ds lkFk ;FkkFkZ :iesavfHkO;aftrgqvkgSA thou dh vuqHkwfr;kalaosnukvksrFkkifjfLFkfr;ksa ds lk{kkRdkj ds fy, budkvè;;u loZnkvisf{krgSA

1 ÇgnhdFkklkfgR; ds fodkl;k=k ls voxrgksukA

2 ;FkkFkZ ds èkjkryijfy[khxÃçsepan dh dgkuhtgkaHkkjrh; lekt ds dM+os

lpdkniZ.kgSoghxcuesaVwVrsewY;ksa ds vaèksjsesaHkVdrseè;oxZ dh okLrfodrk ls ifjp; gksrkgSA

3 vkapfyddFkk ds ekè;e ls dyk ds lEeku dh vkdka{kk o dykdkj ds ekuoh;

laosnuk ls lk{kkRdkjgksrkgSA

4 lafprdgkfu;ksa ls ekÙk`&ân; dh osnuk ]Hkkjr&ikfdLrkufoHkktu dh =klnh]

Lo ds foltZurFkkfuEueè;eoxZ ds cngkyh thou ls ifjfprgksrsgSaA

5 fo|kFkÊçfrfufèkjpukvksads }kjkukjh ds Lora= O;fäRomldkla?k"kZmldk

LokoyacurFkknkaiR; thou dh fo"kerkvksavoxrgq,A

6 fo|kFkÊ us lafprdgkfu;ksa ds ekè;e ls thou ds fofHkUuigyqvksadk o leL;kvksa

dks le>ukrFkklekèkkuKkrfd;kA

7 çfl) lkfgR;dkjksa dh jpukvksa ds ekè;e ls xzkeh.k&txr o Hkkjrh; thou dh

lPpkÃdksfpf=r djus dh dyk ls ifjfprgq,A

**ch , f}rh; o"kZ ¼Çgnh lkfgR;½**

**çFkeç'ui= &vokZphuÇgnhdkO;**

çLrkouk

vkèkqfuddkO; vkèkqfudrk dh fo'ks"krkvksadkslesVsgq, gSa A Lora=rkçkfIr ds iwoZ dh Hkko&Hkk"kk] f'kYi ]varoZLrqlacaèkhleLrfodklèkkjk ;gkaltho :iesa ns[khtkldrhgSAblsvuns[kkdjukeuq"; dh fodkl ;k=k dksutjvanktdjukgSbl ;k=k ds lk{kkRdkj ds fy, vkèkqfuddkO; dkvè;;u visf{krghugÈvfirqvfuok;ZgS A

1 fo|kÆFk;ksadksvokZphudkO; bljpukfojksèkh le; esavfrmiHkksäkoknhfoifÙkvkSjnSR;kdkjVsDu‚y‚th dh HkwyHkqyS;kesaQalsgq, euq"; dksmldhfLFkfrdk ,glkldjkrhgS A

2 jk"Vªçse] jk"Vªh; tkxj.kvkSjlektlqèkkj dh psruk dh lqlaxrvkSjO;ofLFkrdkO;kRedvfHkO;fälafprjpukvksaesa ns[khtkldrhgS A

3 fo|kFkÊvokZphudkO; esafofoèkrkdksHkk"kk ]f'kYivkSjdF; ds Lrjijfodflr u, ç;ksxksa }kjkKkrdjldrsgSaA

4 Nk;koknhdfolw;Zdkar f=ikBhfujkykrFkk ç—fr ds lqdqekjdfolqfe=kuanuiar dh ds O;fäRo ,oa —frRo ls ifjp; gksxkA

5 uÃdfork ds 'kykdkiq#"k vKs; dh vkèkqfudlksp o rduhd us vkRecksèkdks

u, lkfgR; esarFkkO;fä Lora=rkdkslkfgR; dh jpukRedlaosnuk ds dsaæesa

LFkkfirdjus dh ps"VkdkcksèkgksrkgS A

6 fo|kFkÊdksgfjvkSèk dh fç; çokljpuk }kjkfojgkuqHkwfr o jkèkk —".k ds yksdlsod :i ds n'kZugksrsgSaA

7 JhdkaroekZ dh exèk dh dfork,avkReeaFkudkekxZç'kLrdjexèklÙkkvkSj

çfr"Bku ds ledkyhupfj= dksfpf=r djmldh =klnhdkc[kkudjrhgSaA

**ch , f}rh; o"kZ ¼Çgnh lkfgR;½**

**f}rh; ç'ui= &ÇgnhfucaèkrFkk x| foèkk,a**

1 ukVdfucaèko ,dkadh ds fodkl dh foLr`rtkudkjhçkIrrFkkukVd o ,dkadh ds eè; varjdkLi"VKkugqvkA

2 Hkkjrsanqdkyksdfç; çglUuvaèksjuxjhesarRdkyhufczfV'kLosPNkpkjhvkSj

lkearhO;oLFkkijfd;sx;srh[ksO;aX; dkcksèkrFkkçglUu dh laokn

;kstukxhr o jaxeaph;rkdks le>k ftldsdkj.kblsukpk]ukSVadh] ;{k xku

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3 lafpr ,dkafd;kses M‚ jkedqekjoekZ ds ,sfrgkfld ,oaeuksoSKkfud ,dkadh

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4 y{eh ukjk;.k feJ ds ,d fnu ,dkadhesavkèkqfudrkvkSjijaijk ds }an dks]Hkê

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laosnu'khyrk ds y{k.kdks ns[kktkldrkgS A

5 vkpk;Zjkepaæ 'kqDy ds euksfodkjlacaèkhfucaèkØksèk ds lkekftdLo:i dh foLr`rO;k[;k dkcksèkgqvkA

6 gtkjhçlknf}osnh us tgkayfyrfucaèkolarvkx;kgS ds ekè;e ls ç—fr dh olarghurkdksns'k dh ;qokih<+h ls tksM+ mudhmeaxghurk ds dkj.kksadks

ryk'kusdkç;klfd;k] ogh ml vejkÃ us jkejkedghgSyfyrfucaèkesa

miHkksäkoknhewY;ksa ls fc[kjrhgekjhuxjhlaL—frdksdSlsxzkeh.kewY;ksa }kjk

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7 NÙkhlx<+h yksdukVîdksfoÜoesaigpkufnykusokysgchcruohj ds vonkudkstkuktkldrkgS A

**ch ,r`rh; o"kZ ¼Çgnh lkfgR;½**

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Çgnhdsoy [kM+hcksyhugÈgScfYd ,d cgqrcM+kHkkf"kdlewggSAÇgnhtxresavusdfoHkk"kk,a] cksfy;kavkSjmicksfy;kafo|ekugSaftuesaiq"dylkfgR; lainkgS A buds lE;dvè;;u vkSjvUos"k.k dh vko';drkgS A tuinh; Hkk"kkNÙkhlx<+h fujarjfodkl dh vksjvxzljgksjghgSvLrqblHkk"kkvkSjblesajfprlkfgR; dkbfrgklfodkldksLi"Vdjrsgq, bulslacafèkrçeq[k jpukdkjksadkvkykspukRedvuq'khyudjukÇgnh ds o`gÙkjfgresagksxkA

1 çns'k dh jktHkk"kkNÙkhlx<+h Hkk"kk ds bfrgkl o fodkl ;k=k ls ifjfprgksukA

2 NÙkhlx<+h Hkk"kkesajfprfoiqylkfgR; lainkdkstkuus o vè;;u dkvoljçkIrA

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4 NÙkhlx<+ ds dchjdgstkusokysçkphudfo lar èkeZnkl ds dkO; esalrxq# dh egÙkk o xq# Hkfä dh vfHkO;atuk ds n'kZudjukA

5 Jhy[kuykyxqIr ds lksuikufucaèk ds ekè;e ls NÙkhlx<+ ds n'kgjkioZ dh

lkaL—frdNVkdksKkrfd;ktkldrkgSA

6 lh[k lh[k ds xksBdfork ds ekè;e ls NÙkhlx<+h yksdksfä;kadgkorksavkSjeqgkojksadkvè;;u fd;ktkrkgStksxzkeh.k thou esalh[k dh mi;ksfxrkdksn'kkZrhgSA

7 NÙkhlx<+h lkfgR; ,oavuqlaèkku ds fodklesaM‚DVjfou; ikBd ds vonku ls voxrgksukA

8 NÙkhlx<+h xtylkfgR;dkjeqdqandkS'ky] lqanjyky 'kekZ] dfiyukFkd';i

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1 ÇgnhHkk"kkdkmn~Hko&fodkl ,oa ,sfrgkfldi`"BHkwfe ls ifjfprgksukA

2 Çgnh dh ewyvkèkkjHkk"kk,arFkkfofHkUuHkk"kkvksa ds fodkl ls ifjfprgksukA

3 Hkkjrh; vk;ZHkk"kk ds dky[kaMksa ls voxrrFkkÇgnh dh fofHkUucksfy;ksa ds oxÊdj.k o {ks= dh tkudkjhçkIrgqÃA

4 ÇgnhHkk"kk ds fofHkUu :iksa o Çgnh 'kCnHkaMkjifjfprgksukA

5 fo|kÆFk;ksadksÇgnhlkfgR; ds bfrgkl ds dkyfoHkktu]ukedj.klacafèkr

tkudkjhçkIrgqÃA

6 Çgnh ds fofHkUudkyksa dh lkekftd] lkaL—frd] jktuhfrd ]èkkÆedfLFkfrrFkk

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7 ÇgnhlkfgR; ds fofHkUudkyksa ds çeq[k jpukdkj o mudhçfrfufèk —fr;ksadk

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8 fo|kÆFk;ksadksdkO;kax ds varxZrdkO; dkLo:i] dkO; ds rRo o dkO; ç;kstu

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Programme Outcome: dk;ZØeifj.kke

1- Hkk’kklaLd`frvkSj ;qx dh le>fodflrdjukA

2- Hkkjrh; o ik’pkR; fofo/k nk’kZfud o oSpkfjdfl)karks dh le>A

3- ,sfrgkfldlanHkZesalkfgR; dh le>fodflrdjukA

4- Hkk’kk] fyfi] O;kdj.kdklexzKkuA

5- dEI;wVjesafgUnh ds vuqiz;ksxA

6- O;olkf;d ookf.kfT;dfgUnhdkKkuA

Program Specific Outcomes (PSOs):dk;ZØefof'k"Vifj.kke

**,e-,- fgUnhizFkelsesLVj**

1- IkzkphudkO;

fgUnhlkfgR; ds vkfndkyhudkO; dkifjp;] e/;dkyhudkO; dk

ifjp; vkSjrkRdkfyulkaLd`frd] lkfgfR;d] ,sfrgkfldvkfn

ijaijkvksadk v/;;u foospuA

2- Nk;kokn ,oajk"Vªh; dkO;/kkjk

fofo/k vk/kqfudfopkj/kkjkvksesaizogekufgUnhdkO; vkSjdfo;ksadk

leh{kkRedfoospuA

3- fgUnhukVd ,oafuca/k lkfgR;

fgUnh x| lkfgR; dh egRoiw.kZfo/kkvksesaukVd ,oafuca/k dh

egRoiw.kZjpukvks o jpukdkjksdk v/;;u ,oafoospuA

4- Hkk’kkfoKku

- Hkk’kk] Hkkf’kdO;oLFkk] Hkk”kklajpukvkfndkHkk”kkoSKkfud

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5- fgUnhlkfgR; dkbfrgkl ¼vkfndky ls jhfrdky ½

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1- e/;dkyhudkO;&

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jpkukvksadkifjp;A

2- Nk;koknsRrjdkO;

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dfo;ksa&jpukvksdk v/;;u&foospuA

3- fgUnhmiU;kl ,oadFkklkfgR;

egRoiw.kZmiU;klksa] dgkfu;ksvkSjjpukdkjksa dh leh{kkvkSj ;qxhu

lanHkZ dh le>A

4- fgUnhHkk’kk

fgUnhHkk’kkdk ,sfrgkfld] oSKkfudifjp;A

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dkifjp; rFkkfofHkUuvk/kqfuddkO; izo`fRr;ksa ,oajpukdkjksadk

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**,e-,- fgUnhr`rh; lsesLVj**

1- Hkkjrh; dkO;”kkL=&

lkfgR; ds lS)kfUrdLo:Ikdkifjp; o foospu

2- dkedkthfgUnh ,oavuqokn

fgUnh ds vk/kqfuddkedkthLo:Ikdkifjp;] dEI;wVjbaVjusV

dkifjp; vkSjfgUnhdkvuqiz;ksxA

3- Hkkjrh; lkfgR; dklS)kfUrdfoospu

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4- NRrhlx<+h Hkk’kkvkSjlkfgR; dklS)kfUrdLo:i

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3- Hkkjrh; lkfgR; dh fofo/k fo/kk,W

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4- NRrhlx<+h ds izfrfuf/k dfo ,oalkfgR;dkj

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5- O;ogkfjdi=dkfjrkIk=dkfjrkdklaiw.kZifjp;A

**Department of Economics**

**(Bachelor of Arts)**

Programme Outcome

By completion of the program, the students will able to understand the basic concepts, fundamental principles related to economics and their relevance in the day to day life.

Course Outcomes

On the completion of the course student will be able to:

* Understand the fundamental concepts of Economics
* Understand the theory of Production and Cost
* Understand the process of commercial and central Banking
* Study economic development and economic growth
* Study Economics of Environment, Ecology and pollution control

Programme Specific Outcome

B.A-I

**PSO -1 Paper-I Micro Economics**

1. Micro economics knowing the decision making of consumer.

2. Identifying the nature of revenue and cost of production.

3. Comprehending the demand function and production function.

4. Realizing various production theories.

5. Clarifying the meaning of Marginal, average, total revenue,

6. Marginal, average and total cost and its implication. Awareness of different markets structure.

7. Understanding pricing in different markets.

8. Judging the factor pricing.

**PSO -2 Paper-II Indian Economy**

1. Understanding characteristics, features, structural changes in Indian Economy.

2. Economy Comprehension of the nature and impact of New Economic Reforms on The Indian Economy.

3. Knowing the problems of unemployment, poverty, rising economic.

4. Social inequality and problems of regional imbalances in India.

5. Evaluating the changing role of agriculture, industrial and service sector.

B.A-II

**PSO -3 Paper-I Macro Economics**

1 Macro Economics identifying the basic concepts and theories of macro-economics.

2 Awareness about changing macro-economics policies and theories.

3 Understanding various concepts such as; GDP, GNP NNP, Personal

4 Income, Disposable Income, Per Capita Income, and National Income. Identifying the factors determining gross domestic product, employment

5 The general level of prices, and interest rates.

6 Realizing the law of markets, consumption function and investment

7 Function. Judging the role of fiscal policy and monetary policy in a Developing

8 Knowing features, phases and theories of trade cycles.

9 Evaluating types, merits and demerits of taxes.

10 Comprehending the role of public finance in developing economy.

**PSO -4 Paper-II Money Banking and Public Finance**

1. Understanding the meaning, function and role of commercial banking.

2. Comprehending the procedure of an account opening, operating and closing

3. Knowing the structure, function and role of RBI in economic development.

4. Judging the progress of financial inclusion.

5. Evaluating the importance, characteristics and components of the financial Market.

BA-III

**PSO -5 Paper-I Development and Environmental Economics**

1. Understanding the role and types of development banks and non-banking financial intermediaries.

2. Identifying recent trends in Indian Banking such as E- Banking, MICR.

3. Understanding the efficiency and equity implications of market interference, including government policy.

4. Developing research knowledge in economics.

5. Developing the knowledge about theories of economic growth and development policies.

**PSO -6 Paper-II Statistical Methods**

1. Research Methodology understanding the basic framework of research process.

2. Defining various research designs and techniques.

3. Identifying various sources of information for literature review and data collection.

4. Discussing the ethical dimensions of conducting applied research.

5. Appreciating the components of scholarly writing and evaluate its quality.

6. Knowing various aspects of Research in Economics.

7. Understanding various data analysis techniques (Mean, Mode, Median, Range, Standard Deviation, Karl person coefficient of correlation).

8. Ability to interpretation of data and report writing.

**MASTER OF ARTS**

ECONOMICS

COURSE OUTCOME:

On completion of the course, Students will be able to:

* Understand the concept of Globalization.
* Understand concept of budget and deficit finance.
* Understand economics of Agriculture.
* Understand Micro and Macro-economic analysis.
* Understand classical and Keynesian theories of output and employment.
* Detailed study of Inflation and Business Cycles.

PROGRAMME OUTCOMES:

* The students should be able to analyze the socio-political and economic issues related to national and international scenario.
* Apply supply and demand analysis to examine the impact of government regulation.
* Curriculum helps to create the capacity to Work effectively in a multi-disciplinary environment.
* The students should able to find a career in Economics.
* The students should be able to understand how the economic policies affect the common people through the societal interactions.
* Understand the circular flow model and use the concepts of aggregate demand and aggregate supply to analyze the response of the economy to disturbances.

PROGRAMME SPECIFIC OUTCOMES:

SEMESTER – I

PSO-1 Subject- Micro Economics I

1. Students should be able to develop knowledge about production, demand, market and pricing.
2. Students should be able to develop knowledge about monetary policy and its implications in economy.
3. Students should be able to develop knowledge about economic planning in India and recent changes in our economy.
4. Gain knowledge regarding the implications of mathematical tools in economic planning.

PSO-2 Subject- Macro Economics I

1. Concepts and methods of National income accounting.
2. Theories of aggregate income and employment.
3. Theories of consumption function and investment spending.
4. Rate of interest- Classical, Keynesian and IS-LM Model.
5. Basics of international trade -open economy and closed economy, balance of payments.

PSO – 3 Subject- Quantitative Methods

1. Basic concepts of statistics such as measures of central tendency, dispersion, skewers and kurtosis.
2. Elementary probability theory including probability distributions.
3. Methods of sampling and census.
4. Correlation and simple regression
5. Index numbers.

PSO-4 Subject- Indian Economy

1. Students should be able to develop knowledge about the role of International trade in economic.
2. Helps to understand the basic theories of economic growth and development.
3. Students should be able to develop knowledge about the recent trends in banking trends.
4. Students will understand the use of mathematics and statistics in economic analysis.

PSO-5 Subject- Industrial Economics

1. Classical trade theories- Adam Smith’s absolute advantage, Ricardo’s comparative advantage, Neo-classical models, offer curve, Huckster-Ohlin theorem.
2. Terms of trade and gain from trade, Perish-Singer views on deterioration of terms of trade, Myrdal’s theory of backwash effect and growth
3. International trade policy- free trade and protection, globalization, capital movements
4. Foreign exchange markets, exchange rates, balance of payments
5. Evolution of international monetary system.

SEMESTER –II

PSO- 1 Micro Economics II

1. To analyse the cost conditions of the industries
2. To understand the decision making in market
3. To understand the concept of input output analysis
4. To give awareness about the market conditions
5. 5 To insist an entrepreneurial skill among the students
6. To provide an idea about how externalities affect the market
7. To introduce the general equilibrium concept
8. To make aware how decision making leads to social welfare
9. To provide an idea about how lemon market influence the general market
10. To provide an idea about distribution theory

PSO-2 Macro Economics II

1. To provide knowledge about monetary transactions
2. To understand the theories of inflation
3. To understand about the unemployment problem
4. To understand about the macro economic principles
5. To provide knowledge about business cycle.
6. To provide knowledge about goods market and money market equilibrium

PSO-3 Research Methods and Computer Application

1. To introduce the basic principles of fiscal economics
2. To understand the difference between public and private finance
3. To understand the source of public expenditure
4. To understand the source of public revenue
5. To make awareness about budget preparation

PSO-4 Indian Economic Policy

1. Students should be able to develop knowledge about the role of International trade in economics.
2. Helps to understand the basic theories of economic growth and development.
3. Students should be able to develop knowledge about the recent trends in banking trends.
4. Students will understand the use of mathematics and statistics in economic analysis.

PSO-5Labour Economics

1. Analyse the nature and scope and significance of labour markets in developing countries.
2. Analyse the nature and scope of Industrial Relations
3. Describe the different theories of wage determination
4. Analyse the level of discrimination in labour market in India
5. Restate the concept of social security and social insurance
6. Analyse the impact of economic reforms on labour market.
7. Describe the evolution of machinery for labour administration in India
8. Restate and analyse the origin of International labour organization
9. Knowledge about labour problems and helps to develop employability skill

SEMESTER –III

PSO- 1

Economics of growth

The Student will be able to Understand:

1. The Concepts of Economic Growth and Development.
2. The Concept of Capital Output Ratio, Input-Output Analysis, Project Evaluation and its methods and Cost–Benefit analysis, Shadow Prices.
3. The Theories of Growth Harrod-Domarmodel,Joan Robinson model, Mead’s Neo -Classical Model, Solow Long- Run, Kaldor model of Distribution.
4. The Approaches to Growth:- Kaldor model of Growth, The Pesinetti Model of Profit and Growth, The Models of Technical Change, The Golden rule of Accumulation model.
5. Steady State Growth, Growth Accounting, The Friedman Model, The Mahalanobis Four Sector Model.

PSO- 2

International trade

The Student will be able to Understand:

1. Theory of International Trade.
2. Modern Theory of International Trade.
3. The Theory of Intervention.
4. Balance of Payments.
5. Income Adjustment.

PSO- 3

Public Finance

The Student will know about

1. Definition, Nature and scope of Public Finance.
2. Public Expenditure.
3. Public Revenue.
4. Public Debt.
5. Budget– Meaning, Objectives,Types.

PSO-4

Environmental economics

The Student will know about

1. The Economics of Environment
2. Economic Theory of Environmental Issues
3. Population, Agriculture and The Environment
4. Ecological Economics, National Income and Environmental Accounting
5. Environmental Value and Methods

PSO-5

Demography

The Student will know about

1. Demography – Meaning and Importance
2. Migration
3. Mortality
4. Fertility
5. Women Empowerment

SEMESTER –IV

PSO- 1

Economics Of Development And Planning

The Student will be able to Understand

1. Economic Planning
2. Theories of Development
3. Approaches to Development
4. Development Models
5. Investment Criteria in Economic Development

PSO- 2

International Economics

The Student will know about

1. Foreign Trade and Economic Development
2. Regionalism of European Union
3. Theory of Short Term & Long Term Capital Movement and International Trade
4. International Monetary System
5. International Organisations

PSO- 3

Public Economics

The Student will know about

1. Role of Public Finance in Economic Development
2. Federal Finance
3. Indian Tax System
4. Analysis of Centre & Chhattisgarh Government
5. Financial Responsibilities and Budget Management Act

PSO-4

Economics of Social Sector

The Student will know about

1. Pollution, Global Environmental Issues
2. Development and Environment
3. Economics of Resources
4. Economics of Education
5. Health Economics

PSO-5

The MA students in the fourth semester would be required to appear for a Viva-Voce examination before the external examiner appointed by the University for marks of 100(Hundred). Viva-Voce will be conducted by the Department as per the rules and regulations of the University

Department of Scociology

B.A. SOCIOLOGY

PROGRAMME OUTCOME

Upon successful completion of the program the graduate students would be able to :

* Understand basic concepts and theoretical perspectives in Sociology and how they are used in sociological explanation of social behavior.
* Understand how to collect, analyze and interpret empirical evidence in sociological research.
* Gain familiarity with and develop an understanding of core substantive areas of sociological inquiry.
* Express sociological ideas clearly and coherently both in writing and in oral presentations.

COURSE OUTCOME

Major areas that will be covered under UG (Sociology) Program:-

* Sociology: An Introduction
* Indian Society
* Foundations of Sociological Thoughts
* Crime and Society
* Sociology of Tribal Society
* Methods of Social Research

PROGRAM SPECIFIC OUTCOME

B.A. l

PSO-1 Sociology: An Introduction

Students will gain insight into the emergence of Sociology as an independent subject of enquiry as well as the basic concepts of sociology, social institutions and social processes. They also get to know the utility of sociology and about Applied Sociology and Social Ecology.

PSO-2 Indian Society

In this paper students will dive deep into the core of Indian society. They will understand about the Ancient concepts like Varna, Ashram system, Theory of Karma etc. They will also learn about the cultural diversity prevalent in India, social institutions related with different religions and tribes, changes occurring in the Indian society through the process of Globalization, Liberalization etc. and some social issues and problems of the state of Chhattisgarh.

B. A.।।

PSO-3: Sociology of Tribal Society Outcome - One of the important components of Indian society is the Tribal Society. Students get to know about the concept, classification, culture, beliefs, religion, customs, institutions as well as social problems, changes and mobility prevalent among the aboriginals and the schemes of tribal development. They would also learn about some important tribal communities of Chhattisgarh.

PSO-4:Crime and Society Outcome - This paper will develop an understanding of the concepts of crime, law and criminal justice system. Students will be able to understand crime rates, patterns and types of crime and punishment. They will know about social disorganization and the correctional process too.

B. A. - ।।।

PSO-5:Foundations of Sociological Thoughts Outcome - Students would be able to gain knowledge about the emergence and development of Sociology and the pioneers of the subject like AugusteCompte, Karl Marx, Emile Durkheim, Max Weber, Vilfredo Pareto etc. and some of their important classical theories along with the development of sociological thoughts in India.

PSO-6:Methods of Social Research Outcome - Students will understand the meaning, scope and importance of social research, scientific method and its logic. They will gain knowledg about the types of research, techniques of data collection, meaning and significance of statistics and measures of central tendency

Department of Geogreaphy

B.A. Geography

PROGRAMME OUTCOME

Upon successful completion of the program the graduate students would be able to :

* Understand basic concepts and theoretical perspectives in Geography
* Understand how to collect, analyze and interpret data
* Gain familiarity with and develop an understanding of core substantive areas of Geography
* Express knowledge of Geography clearly and coherently

COURSE OUTCOME

Major areas that will be covered under UG (Geography) Program:-

* Physical Geography
* Human Geography
* Economic and Resource Geography
* Geography of India
* Remote Sensing and Geography Information System

PROGRAM SPECIFIC OUTCOME

B.A. l

PSO-1

**Physical Geography**

* Understand the effect of rotation of revolution the earth.
* Know the internal and interior structure of the earth.
* Study the formation of Rocks.
* Understand the work of internal and external forces and their associated landforms.
* Understand the types of winds and composition of atmosphere atmospheric pressure of belts.

PSO-2

**Human Geography**

* Gain knowledge about major themes of human geography.
* Acquire knowledge on the history and evolution of humans.
* Understand the approaches and processes of human geography as well as the diverse patterns of habitat and adaptations.
* Develop and idea about space and society.

B. A.।।

PSO-3

**Economic & Resources Geography**

* Student would be integrating the various factors of economic development and dynamic aspects of economic Geography.
* Classify economic activities with their features and differentiate, undeveloped and developing countries.
* Classify resource focus on use non-conventional energy resources crisis.
* Classify industries, transport, communication and trade.
* Describe various national and international organization also new concepts.

PSO-4

**Geography of India**

* They can know about their own countries land formation, climate and natural vegetation.
* They understand the economic resources of India.
* They understand the social distribution of population of their country.
* Develop an idea about regionalization of India.

B. A. - ।।।

PSO-5

**Remote Sensing and Geographical Information System**

* Have knowledge of the principles of remote sensing sensor resolutions and image referencing schemes.
* Interpret satellite imagery and understand the preparation of false color composites from them.
* Training in the use Geographic information system (GIS) software for contemporary mapping skills.
* Analyzing and interpreting remotely send satellite images and aerial photographs in order to understand. topographical and cultural variations on the earth surface.
* Apply GIS to the preparation of thematic maps.
* Use GNSS

PSO-6

**Geography Of Chhattisgarh**

**To Gain knowedge about**

* Physical Features : Geological Structure, Relief and Physiographic Regions, Drainage, Climate.
* Natural Resources : Soils – Types, characteristics and their Distribution. Water Resources (Major Irrigation and Hydel Power Projects), Forests-types, Distribution, Conservation of Forest. Mineral Resources-iron-ore, Coal, Dolomite Lime stone, Bauxite, etc. Power Resources of Chhattisgarh.
* Agriculture and Populations – Agriculture: Cereals, Pulses and other crops. Population: Growth, Distribution, and Density; Tribal Populations; and Urban and Rural Population.
* Industries - Iron and Steel, Cement, Sugar, Aluminum; Industrial Regions of Chhattisgarh.
* Trade and Transport, Tourism, Socio-Economic Development of Chhattisgarh.

**Practical**

### B.A.-I,II,III

* Developinideaaboutscaleanddrawdifferenttypesofscalelikelinear,diagonalandvernier.
* Acquireknowledgedifferenttypesofmapprojection.
* Gainknowledgeabouttopographicalmapsandapplythisknowledgeingroundsurface.
* Learntheuseofvariousminorinstrumentslikerotameter,planimeterandpantograph.
* Bringsdirectinteractionofdifferenttypesofsurveyinginstrumentslikeprismaticcompass, planetablewithenvironment.
* Studentslearntouseofvariousmeteorologicalinstrumentsandalsolearntointerpretofthe Indiandailyweatherreport.
* That’shelpstudentstopredicttheweatherreportinfuture.
* Theyunderstandandgainknowledgeaboutstatisticaltechniques.
* Studentslearntousepocketstereoscopeandinterprettheaerialphotographwiththehelpofpocketstereoscope. AlsodeveloptheirskillinremotesensingandG.I.S.
* Studentslearntodrawmanycartographiesdiagramandapplythisindifferentstatisticaldata.
* Theycanabletoselecttheappropriatetechniqueforpresentationofadatatotheirfieldwork.
* Theirknowledgeaboutprimaryandsecondarydatacollectionhelpsthemtopreparetheirsurveyreport.