

**COURSE OUTCOME, PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME
(CO'S, PO'S & PSO'S)
Government N.R.M.Girls College Dhamtari, CG
Affiliated to Pt. Ravishankar University Raipur**

DEPARTMENT OF SCIENCE

PHYSICS (B.Sc. I, II, III YEAR)

OBJECTIVES OF THE PROGRAMME:

The main objective of the course is to provide quality education with basic concepts in Physics and Electronics and to prepare the students for University as well as national level PG entrance and competitive examinations and to impart quality education to our students with best available facilities. It is our greatest objective to obtain consistent and excellent results. The college follows Hemchand Yadav University, Durg syllabus for Bachelor of Science in Physics and Electronics.

PROGRAMME OUTCOME:

PO - 1 Eligibility and Employability Main outcome of the programme is that after the course graduates become essentially eligible for employment in government as well as private sectors, create capability to acquire any reputed professional career in country and abroad. They will attain eligibility to successfully pursue their career objectives in advanced education, scientific career in government or industry, a teaching career in the education systems.

PO- 2 Logical and Analytic Thinking Ability The graduate will acquire scientific temperament to analyze any problem he comes across by demonstrating logical and analytic thinking ability. The graduate will analyze situations, search for the truth and extract information, formulate and solve problems in a systematic and logical way. Become able to identify assumptions and checking out the degree to which these assumptions are accurate and valid. The assumptions are framed to learn thinking and actions.

PO-3 Communication efficiency The graduate will work and communicate efficiently in inter- disciplinary environment, either independently or in a team, and demonstrate leadership quality. Bachelors will speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO-4 Life-Long Learning The graduate will understand the impact of science on society; will engage in life-long learning and professional development through self-study, continuing education or professional and doctoral level studies. The graduate will acquire proficiency in the acquisition of data using a variety of laboratory instruments and in the analysis and interpretation of such data.

COURSE OUTCOME:

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

CO1:- Explain the concept of Gravitation and planetary motion with rotational motion of rigid body and moment of inertia and concept of linear and angular momentum.

CO2:- Understand basic network theorems and construction and working of different instruments through different circuits.

CO3:- Understand semiconductor physics and devices like diode LED, FET, OP-AMP, with the study of special theory of relativity.

CO4:- Understand geometrical optics, theory of interference of light, diffraction of light with the concept of polarisation of light.

CO5:- Understand failures of classical mechanic through the study of quantum mechanics. CO6:- Understand the concept of Microprocessor and Integrated Circuit

CO7:- Understand the concept of Television

CO8:- Understand the Concept of Combinational and Sequential circuit

Marking Scheme for First/Second/Third year

Class	Paper No	Title of the Paper	Marks Allotted in Theory	Marks Allotted in Practical	Marks Allotted in Internal Assessment
B.Sc. I (Physics)	1	Mechanics Oscillation and Properties of Matter	50	50	10
B.Sc. I (Physics)	2	Electricity, Magnetism and Electromagnetic Theory	50		10
B.Sc. II (Physics)	1	Thermodynamics , Kinetic Theory and Statistical Physics	50	50	10
B.Sc. II (Physics)	2	Waves Acoustics and Optics	50		10
B.Sc. III (Physics)	1	Relativity, Quantum Mechanics Atomic Molecular and Nuclear Physics	50	50	10
B.Sc. III (Physics)	2	Solid State Physics, Solid State Devices and Electronics	50		10

PROGRAMME SPECIFIC OUTCOME:

The course of Physics has been divided into two papers.

PSO 01: B.Sc. I year (Physics I) Mechanics Oscillation and Properties of Matter

The paper aims at imparting knowledge to:

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

PSO 02: B.Sc. I year (Physics II) Electricity, Magnetism and Electromagnetic Theory

- the concepts of Circuit theory
- knowledge regarding Electricity, Dielectric medium
- Magnetisation and Electromagnetic behaviour
- Demonstrating quantitative problem solving skills in all the topics covered

PSO 03: B.Sc. II year (Physics I) Thermodynamics, Kinetic Theory and Statistical Physics

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

- Comprehend the basic concepts of thermodynamics and its applications in physical situation
- Learn about situations in low temperature
- Understand the concepts of Thermal and the concepts Statistical mechanics and be able to perform calculations using them
- 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: B.Sc. II year (Physics II) Waves Acoustics and Optics

- Students will appreciate the role of Physics in 'interdisciplinary areas related to materials, Acoustics etc.
- It 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

PSO 05: B.Sc. III year (Physics I) Relativity, Quantum Mechanics Atomic Molecular and Nuclear Physics

- Understand laws and apply them in atomic Physics
- Understand the concepts Molecular Physics
- Understand laws and apply them in Nuclear Physics
- Understand the concepts in Nuclear Physics
- Understand laws and apply them in Relativity
- Demonstrate quantitative problem solving skills in all the topics covered

PSO 06: B.Sc. III year (Physics II) Solid State Physics, Solid State Devices and Electronics

- 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

CHEMISTRY (B.Sc. I, II, III YEAR)

COURSE OUTCOME

The purpose of the B.Sc. program is to provide the key knowledge, base and laboratory resources to prepare students for achieving their career goals as professionals in the field of chemistry and related fields. They will be able to work as chemists, technicians in different laboratories and can pursue M. Sc. in Chemistry or may go for research work.

PROGRAMME OUTCOME

- Students will have a basic knowledge of fundamentals and application of current chemical and scientific theories.
- Students will be able to record and analyze the results of experiments.
- Students will be skilled in problem solving, critical thinking and analytical.
- Students will understand the central role of chemistry in our society.
- Students will become aware of the ethical behavior in issues facing chemists.

PROGRAMME SPECIFIC OUTCOME

B.Sc. I year (Subject - CHEMISTRY)

PAPER - 1 (Inorganic Chemistry)

Unit 1- Students will develop an understanding about the atomic structures and their rules.

Unit 2 - Students will have an insight look about V.B.T. and types of hybridization.

Unit 3 - Students will be able to understand about different characteristics of ionic solids, semiconductors and band theories.

Unit 4 - Students will have an insight comparative study of s-block elements.

Unit 5 - Students will understand about different properties & structures of p-block elements and inorganic chemical radicals.

PAPER - 2 (Organic Chemistry)

Unit 1 - Students will be able to develop an understanding about electronic structure bonding & mechanism.

Unit 2 - They will be able to learn about stereochemistry of organic compounds.

Unit 3 - Students will have an idea about alliphatic and aromatic ring compounds.

Unit 4 - Students will be able to perform chemical reactions, structures, substitution reactions of alkenes, dienes and alkynes.

Unit 5 - Students will develop an understanding about the mechanism and substitution reactions of alkyl and aryl halides.

PAPER - 3 (Physical Chemistry)

Unit 1 - Students will be able to perform mathematical concept for chemist and computers.

Unit 2 - Students will be able to understand the concept of Maxwell's law and J-T effect.

Unit 3 - Students will have a basic idea about Roults law and Van't Hoff factor of liquids.

Unit 4 - Students will have an insight view about classification, structures and applications of liquid crystals, colloidal and solid state.

Unit 5 - 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. II year (Subject - CHEMISTRY)

PAPER - 1 (Inorganic Chemistry)

- Unit 1-** Deals with basic property like complexion, colour transition and various in oxidation state of elements of 3d series.
- Unit 2-** Student will learn about the similarities of between 4d and 5d series into various aspects like magnetic property la/Ac contraction and spectral phenomenome.
- Unit 3-** In this unit various theories like VBT, MOT,FT has been elaborated which is to co-ordination complexes and their spectral characteristics.
- Unit 4-** This unit deals with various isolation processes for the separation of La and Ac also complex formation and variation in oxidation state has been studied in detail.
- Unit 5-** Various proposed method for acid and bases has been studied in detail which is useful in various chemical reaction as well as basics of organic and inorganic chemistry.

PAPER - 2 (Organic Chemistry)

- Unit 1-** Method of preparation, physical and chemical properties of alcohols, phenols, ethers and epoxides has been studied in detail.
- Unit 2 -** Important synthesis methods and chemical reactions and oxidising nature of aliphatic and aromatic aldehyde and ketones has been studied.
- Unit 3 -** Acidic property, effect of substituents of carboxylic acid and chemical and physical properties of their derivatives explain in detail
- Unit 4 -** Chemical reaction, effect of substituents on aliphatic and aromatic nitrogen containing compound has been studied
- Unit 5 -** 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 has been explained.

PAPER - 3 (Physical Chemistry)

- Unit 1 -** This unit states with first law of thermodynamics and calculation of various mathematical expression related to ideal gases.
- Unit 2-** Second and third law of thermodynamics studied in detail with the basic concepts of entropy, pressure and temperature
- Unit 3 -** Various theories including nernest equation, lee chateliers equation and principle and gibbs phase rule and explain their importance; explain in detail.
- Unit 4 -** Principles and theories which explain the electrolytic solution and their conductivity has been explained
- Unit 5 -** Redox, EMF, electrode reaction and concentration cells and their importance explain in brief.

LABORATORY COURSE

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

B.Sc. III year (Subject - CHEMISTRY)

PAPER - 1 (Inorganic Chemistry)

- Unit 1** - This unit give important information about metal-ligand bonding in transition metal complexes and types of ligand.
- Unit 2** - Student gains important information about ionic bond also this unit explains crystal field theory and its applications.
- Unit 3** - Students gains the knowledge of organometallic compounds and their chemical reactions.
- Unit 4** - Important elements and their important role in chemistry discussed in this unit.
- Unit 5** - In this unit concept of acid and base are discussed and the forms in which compounds occur in nature is explained.

PAPER - 2 (Organic Chemistry)

- Unit 1** - Units give the knowledge of different organometallic compounds and organic synthesis via enolates.
- Unit 2** - Students the knowledge of biomolecules and their important roles in chemistry and daily life.
- Unit 3** - Students gains the knowledge of polymers, types of biopolymers, formation, their properties and uses.
- Unit 4** - This unit gives information about mass, infrared and UV/Visible spectroscopy. Students gains knowledge of basic principles of these spectroscopy.
- Unit 5** - Students gains knowledge about NMR ^{13}C Spectroscopy their principle and applications.

PAPER - 3 (Physical Chemistry)

- Unit 1** - Students will know about the structure of atom, orbitals and importance of quantum mechanics in chemistry.
- Unit 2** - From this unit students gain the knowledge about applications of quantum mechanics.
- Unit 3** - Spectroscopy plays a very important role in determination of molecular and atomic structure. This unit gives basic knowledge about spectroscopy subject.
- Unit 4** - Students gains the knowledge about orientation of magnetic properties in substances.
- Unit 5** - This unit gives knowledge of 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 few drug.

MATHEMATICS (B.Sc. I, II, III YEAR)

OBJECTIVES OF THE PROGRAMME:

The college follows Hemchand Yadav University, Durg syllabus for B.Sc. course. The objectives of the prescribed course are:

- **Knowledge and Theory –**
Apply their board knowledge of science across a range of fields, with in depth knowledge in at least one area of study. While demonstrating an understanding of the local and global contexts in which science is practiced.
- **Application-**
Apply appropriate methods of research, investigation and design.
- **Proficiency in Technology-**
Recognize the need for information employs highly developed conceptual, analytical, quantitative and technical skills and are adept with a range of technologies.
- **Professional and Ethical Behaviour-**
Demonstrative personal and professional integrity by respecting diverse point of view and the intellectual contribution of others.
- **Problem Solving and Critical Thinking-**
Critically evaluate ideas and arguments by gathering relevant information, assessing its credibility and synthesizing evidence to formulate a position.
- **Environment Sensitivity –** To sensitize young ones towards environment and sustainability and significance of sustainable development.

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 involving arithmetic, algebra, geometry and graphs to solve problems.
- Develop the knowledge for applying the concept and principles of Differential and integrals 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.

MARKING SCHEME

SCHEME OF 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

B.Sc. –I Mathematics

PSO: 01- Paper-I: Algebra and Trigonometry

- Gain knowledge of Elementary operation on Matrices, Inverse of Metrics.
- Able to solve Application of Matrices to a System of Linear Equation.
- Solve Mapping, Equivalence Relation & Partition.
- Develop the knowledge for applying the concept of Group ,Ring & Fields
- Solve various problems on De-Moivre's Theorem and its Application.

PSO:02- Paper- II- Calculus

- Verify the values of limit and Continuity of a function .Understand the Successive Differentiation, Leibnitz's Theorem, Macluarin and Taylor's Series Expansion.
- Learn the method and properties of Asymptotes and Curvature.
- Students will be familiar with the techniques of Integral Calculus.
- Identify types of differential equations and solve differential equations such as Exact, homogeneous, non-homogeneous, and linear and Bernoulli differential equations etc.
- Solve various problems on Ordinary Differential Equation.

PSO: 03-Paper- III- Vector Analysis and Geometry

- Understand basic notions of Scalar and Vector Product of three Vector.
- Able to solve Application of Green, Gauss and Stokes Theorem.
- Students will be familiar with the techniques of integral Calculus.
- Identify types of differential equations and solve differential equations such as Exact, homogeneous, non-homogeneous, and linear and Bernoulli differential equations etc.
- Solve various problems on Ordinary Differential Equation.

B.Sc.-II Mathematics

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.

B.Sc. – III Mathematics

PSO: 07-Paper-I- Analysis

- Solve the Series of arbitrary terms. Convergence, divergence and Oscillation. Abel's and Dirichlet's test. Multiplication of series.
- Determine the Riemann integrability, Intergrability of continuous and monotonic functions with Different Tests.
- Understand Complex numbers as ordered pairs. Geometric representation of Complex numbers.
- 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.

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.

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.

BOTANY (B.Sc. I, II, III YEAR)

The objectives of the prescribed course is:

To discuss the course in such a manner that it can attract, enthuse, sustain and promote the interest of learners for selecting plant science and allied disciplines as their career and make them realize that their choice is intellectually rewarding.

To provide for mobility of students among institution and different disciplines.

To increase the awareness of young learners about the abuse to which plants have been subjected by human greed and train them in exploration, identification and evaluation of plants, conservation of nature and natural resources and in the protection of endangered plant species and other biota dependent on them.

To make provision for improvement in the quality of laboratory and field work for want of which the students are not able to appreciate the beauty and variety of form, structure, function and ecological significance of plants and their biological services.

Course Outcome (CO): Upon completion of this course students will be able:

To acquire knowledge relevant to microbes and lower plants with practical knowledge.

To make aware the application of these studies to become entrepreneur.

To become employee of related scientific industries such as supplier of classwork material, slides, specimen etc.

To become a taxonomist.

To acquire knowledge relevant to structure, development and reproduction in flowering plants• with practical knowledge.

To become employee of biotechnology and genetic engineering related industries.

To appear different competitive examination conducted at national and state level.

To become a teacher in an educational institution.

To appear different in competitive examination conducted at national and state level.

To become a laboratory technician.

SCHEME OF EXAMINATION

Botany:-	Paper I	50 Marks	Time -3 Hours
	Paper II	50 Marks	Time -3 Hours
	Practical	50 marks	Time - 3 Hours

Program Outcome(PO)

To study structural organization and economic importance of microbes including Bacteria, Viruses, Mycoplasma, Cyanobacteria.

To study the structural, developmental and economic importance of lower plants including Algae, Fungi, with practical knowledge.

Name of Program	Program Outcome(PO)	Program Specific Outcome(PSO)
		B. Sc. Part-I
B. Sc. Subject Botany	<p>To study structural organization and economic importance of microbes including Bacteria, Viruses, Mycoplasma, Cyanobacteria.</p> <p>To study the structural, developmental and economic importance of lower plants including Algae, Fungi, with practical knowledge.</p>	<p>B. Sc. Part-I (Paper-I-Bacteria, Viruses, Fungi, Lichens, and Algae)</p> <p>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.</p>
	<p>To study the structural, developmental and economic importance of lower plants including Bryophytes and Pteridophytes with practical knowledge.</p> <p>To study the structural, developmental and economic aspects of Gymnosperms.</p>	<p>B. Sc. Part-I (Paper-II-Bryophytes, Pteridophytes, Gymnosperms and Plaebotany)</p> <p>Know the classification, characteristic features, structure and life cycle of Bryophytes with practical knowledge.</p> <p>Know the classification, characteristic features, structure and life cycle of Pteridophytes with practical knowledge.</p> <p>Know the classification, characteristic features, structure and life cycle of gymnosperms with practical knowledge.</p>
		B. Sc. Part-II
	<p>To study the structural, developmental and economic aspects of Angiosperms.</p> <p>The outcome of this program as to identify the plants according to taxonomy.</p> <p>To study the anatomical structure and development of flowering plants.</p> <p>To study the shoot and root system.</p> <p>To study the structure, development and reproduction in flowering plants.</p>	<p>B. Sc. Part-II (Paper-I Plant Taxonomy, Economic Botany, plant Anatomy And Embryology)</p> <p>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.</p> <p>Understand the utilization of plants as food, fibres, oils, spices, medicine, beverages and rubber with practical knowledge.</p> <p>Understand the internal Structures of Root, Stem, and Leaf, Secondary Growth.</p> <p>Understand the Plant Embryology.</p>
	To study the ecology and	<p>B. Sc. Part-II (Paper-II- Ecology And Plant Physiology)</p> <p>Understand the environment along with water, light, soil, temperature.</p> <p>Understand the morphological, anatomical and physiological changes in plants</p>

	<p>ecosystem with the practical Knowledge.</p> <p>To study the utilization of plants</p> <p>To study the physiology of plants.</p> <p>To study the growth and development in plants.</p>	<p>responses to environment with practical knowledge.</p> <p>Knowledge of ecology, ecosystem, ecological pyramids, flow of energy with practical.</p> <p>Know the complete physiology of plants including plant water relationship, transpiration, transport of organic substance, respiration, photosynthesis.</p> <p>Understand the metabolism of nitrogen and lipids Knowing the growth and development process in plants including knowledge of structure and function of plant hormone.</p> <p>To study the growth and development in plants.</p>
		<p>B. Sc. Part-III</p>
	<p>To study the instrumentation techniques.</p> <p>To Study The culture techniques for growing Bacteria, Fungi in Lab.</p> <p>Practical Knowledge of Plant Diseases .</p> <p>To study the Environment , Conservation, and pollution.</p>	<p>B. Sc. Part-III (Paper-I Analytical Technology, Plant Pathology, Experimental Embryology, Elementary Biostatistics, Environmental pollution and Conservation)</p> <p>Understand the principle, applications of analytical instrumentation and analytical techniques.</p> <p>Practical knowledge of preparation of different growth medium. Tissue culture.</p> <p>Understand the plant –pathogen relationship, epidemiology, etiology of plant diseases.</p> <p>Understand the environmental Issues, pollution, Biodiversities, conservation.</p>
	<p>To study the cell, cell organelles, and Molecular biology.</p> <p>To study the principles, techniques and application of genetic engineering and biotechnology.</p> <p>To study the basic principles of genetics</p>	<p>B. Sc. Part-III(Paper-II Genetics, Molecular Biology, Biotechnology and Biochemistry)</p> <p>Know the complete Cell, and cell organelles, Mendels law of genetics.</p> <p>Understanding the principles, techniques and application of genetic engineering and biotechnology.</p> <p>Understand the principles of biochemistry, Understand the structure of Carbohydrates, Fat, Proteins .</p> <p>Understand properties, structure and mechanism of action of enzymes.</p>

ZOOLOGY (B.Sc. I, II, III YEAR)

Objectives:

To provide students with knowledge of fundamental principles in zoology that will provide a foundation for their later advanced course in more specific biological subjects.

To make students ability to apply basic zoological principles and get knowledge of animal classification schemes.

To elaborate the laboratory and lecture sections of the course.

To provide quality education for self-employment in applied branches of zoology and offering skill based programs.

To inculcate the value based education and entrepreneurial skills among the students.

To create awareness on environmental issues through various activities.

PROGRAMME OUTCOME –

1. Develop competence in basic sciences and in the content of the specific courses that constitute the principal knowledge of their degree.
2. Compare and contrast the characteristics of animals that differentiate them from other forms of life.
3. Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments.
4. Understand and be aware of relevant theories, paradigms, concepts and principles of zoology.
5. Understand the structure and functions of cell types
6. Acquire time management and self-management skills.
7. Relate the various abiotic factors with health of living forms and ecosystems.
8. Understand the role of various biomolecules in living systems
9. Apply the knowledge of Zoology to understand the complex life Processes and phenomena.
10. Recognize the need for, and have the preparation and ability to engage in independent and life-long learning.

COURSE OUTCOME –

1. Students familiar with Morphology, Anatomy, and Physiology of different groups of animals.
2. Students develop interest in the field of Taxonomy procedure and nomenclature, which is the basic requirement for classification of different animals, due to diversity among them.
3. Students develops concern regarding environment degradation and takes initiative to Protect and conserve it.
4. Students develop skill and basic knowledge in the Practical work.
5. Students development and impart their knowledge in the field of Applied Zoology.
6. Further opportunities after Graduation the students can opt for Masters in endless career opportunities such as: Masters in Health care sciences, applied zoology and Forensic Sciences.
7. Endless job opportunities: Ecologist, Environmental consultant, Field trails officer, Nature conservation officer, Biomedical Scientists, Research scientists in life sciences.

PROGRAMME SPECIFIC OUTCOME –

PSO-01 B Sc. Part –I

Paper-1 Cell Biology and Non Chordates

1. To understand the structure of the Cell and its functions.
2. To recognize the taxonomy of Non chordates.
3. To identify animals of higher group in Non-chordates.
4. To study the immunity and related health problems.
5. To illustrate the type study in various Non-chordates.

PSO-02 B Sc. Part –I

Paper-2 Chordate and Embryology

1. To study and understand the various system, adaptation and development.
2. To identify animals of higher group in Chordate.
3. To illustrate the types of eggs and cleavage.
4. To gain the concept of fertilization.
5. To study the Parental Care in higher Vertebrate.

PSO-03 B Sc. Part –II

Paper-1 Anatomy and Physiology

1. Comparative Knowledge of physiology of vertebrate organ system.
2. To illustrate the histology of endocrine gland.
3. Gain Concepts of comparative biology to explain evolution and success to live in varied environment.
4. To study the physiology of Heart, Cardiac cycle and ECG.
5. To illustrate the structure and Function of Ear and Eye.

PSO-04 B Sc. Part –II

Paper-II Vertebrate Endocrinology, Reproductive Biology, Behaviour, Evolution and Applied Zoology

1. To understand the social life of different culture and their behavior.
2. To get of medicinal values of honey and economic uses of fishes and various fauna through project work and educational tours.
3. To illustrate physiological adaptations, development, reproduction and behavior of different forms of life.
4. To aware of the development process and reproductive techniques.
5. To develop the concept of evolution of life and experimental evidences.

PSO-05 B Sc. Part -III

Paper-I Ecology, environmental biology, toxicology, microbiology and medical zoology

1. To understand various clinical tests.
2. To study of some common bacterial and viral diseases of man.
3. To aware the knowledge of natural resources, causes of their depletion and their conservation.
4. To apply the knowledge on the human welfare.
5. To illustrate the exposures to toxins and Toxicants.

PSO-06 B Sc. Part -III

Paper-II Genetics, cell physiology, biochemistry, biotechnology and Bio techniques.

1. To develop information in the genomic study.
2. To identify the instruments and their uses.
3. To develop the concept and regulation of metabolism.
4. Knowledge of various techniques used in hematology.

(B.A./B.Sc./B.Com.)
Environmental Studies and Human Rights

Environmental studies is an interdisciplinary academic field that integrates physical biological and information sciences including ecology, biology, physics, chemistry, plant science, technology, mineralogy, oceanography, zoology, etc. to the study of environment and the solution of environmental problems.

Objective:-

- Impacting basic knowledge about environment and its allied program
- Developing an attitude of concern for the environment
- Motivating public to participate in environment protection and environment improvement
- Acquire and awareness of the environment as a whole and its related problem
- Acquire the skill for identifying and solving environmental problem
- Develop the ability to evaluate measure for the improvement and protection of environment.

Course Outcomes:-

Graduates (B.Sc./B.Com/B.C.A/B.B.A/ B.A.) with a compulsory course based on Hemchand University in Environmental Studies should be able to:

- Understand core concepts and methods from ecological and physical sciences and their application in environmental problem solving.
- An Environmental Studies will be able to critically examine all sides of environmental issues and apply understanding from disciplines such as history, economics, psychology, law, politics, sociology, philosophy, and religion to create informed opinions about how to interact with the environment on both a personal and a social level.
- An Environmental Studies major will be able to recognize the physical, chemical, and biological components of the earth's systems and show how they function.
- An Environmental Studies major will be able to apply lessons from various courses through field experiences. These experiences will allow students to develop a better sense of not only individual organisms, but of the systems in which these organisms live. Students will also see how natural systems and human-designed systems work together, as well as in conflict with each other.
- An Environmental Studies major will be able to do independent research on human interactions with the environment.
- Apply quantitative and qualitative approaches to identify, analyze, and assess environmental problems.

Career Opportunities-

- Career opportunities are highly diverse and new opportunities are rapidly emerging. Our graduates work in all sectors: governmental, non-profit, private, and education. Our students get opportunity in various fields like environmental policy and management, urban planning, environmental law, recreation management, landscape architecture, green business, public administration, and education.
- Many become environment and resource managers working on issues of water, energy, climate, parks, transportation, and urban environments.
- **Job titles include, but are not limited to:**
Sustainability Officer/Director /Environmental Advocate / Analyst / Educator / Program Manager / Planner /Energy Analyst / Manager / Water Resources Analyst / Manager / Planner / Environmental Justice Analyst, Compliance Specialist /Environmental Permitting, Planning, and Compliance /Environmental Business Entrepreneur

Marking Scheme:-

75 marks of theory in which 25 passing marks is marks and 25 marks of project/ field work (Topic for project is related to syllabus such as Environmental related Pollution- Air/ Water/ Noise/Soil, Global warming, Green House effect, Ozone depletion.)

Program Outcome:-

The Programme makes Students aware about:

- The major environmental Change
- An aptitude and altitude towards conserving the environment
- Effects on the ecosystem and Eco- chain of the changing environment
- Use geospatial technologies (including global positioning systems, geographic information systems, and remote sensing) to address environmental problems
- To demonstrate ecosystems in the context of coupled human-environmental interactions.
- To competently implement an individual or group scientific project, which my include literature review, experimental design, data collection, data analysis, and reporting.

Program Specific Outcomes:- The aim of this course is to make our younger generation Environment conscious. The contents of the course are aimed at exposing the students to the fundamental concepts of Environment so that they can appreciate the importance of individual efforts to protect and preserve our environment. Judicious use of our resources will not only help present generation but also the future generations in meeting their needs. This can be achieved by spreading Environmental awareness.

Unit	Course(B.Sc./B.Com/B.A)	Outcomes
Unit-1	The Multidisciplinary Nature of Environmental Studies	Students shall be able to: <ul style="list-style-type: none"> • Explain the concept of Natural Resources: Renewable, Non-Renewable. • Understand and explain the Earth's Resources: Land, Mineral, Water. • Discern the natural catastrophes, interpret risk assessment and apply disaster management methods.
Unit-2	Ecosystem <ul style="list-style-type: none"> a) Concept, Structure and Function of Ecosystem b) Biodiversity and its Conversation 	Students shall be able to: <ul style="list-style-type: none"> • Explain basic concepts of Ecosystem and understand discern Biochemical cycles • Understand and explain basic concepts of Production ecology; measure productivity of an ecosystem and discern biogeochemical cycles. • Explain types of forests in India and understand and explain concepts of Deforestation, Afforestation, Joint Forest management and Social forestry. • Understand and explain the concept of Biodiversity and apply the methods of biodiversity conservation.

Unit-3	<p>a) Causes, Effect and Control measures of Pollution and Disaster Management</p> <p>b) Environmental Management</p>	<p>a) Environmental Pollution and Management: This course aims to provide an understanding of the global environmental problems caused by human activities, fundamental concepts</p>
		<p>of air, water, noise and land pollution, their sources and impact on environment. students will be able to:</p> <ul style="list-style-type: none"> • To measure and monitor air, water and waste pollution, remediate problems and examine the latest technologies in the field. • This course intends in developing critical skills sets for students aiming to pursue a career as an environmental scientist. <p>b) Solid Waste Management:</p> <ul style="list-style-type: none"> • Understand the basic concept of Municipal solid waste and collect, handle, treat and dispose Municipal Solid Waste (MSW). • Explain the methods of solid waste management • Explain the basic concepts and apply various methods of Hazardous and Biomedical Waste management.. <p>c) Environmental Management Students shall be able to:</p> <ul style="list-style-type: none"> • Explain the basic concepts of Environmental impact Assessment (EIA) and Environmental impact Statement (EIS), Public Participation. • Apply the impact assessment methodologies, its assessment and legislation of EIA • Analyze and carry Environmental Audit (EA) for industries and interpret the significant Environmental Acts. • Understand the concept of sustainable development and people's participation in Environmental protection and environmental issues.

Unit-4 & 5	General Background and Historical perspective of Human Rights	<p>Environment Impact Assessment (EIA) is a policy and management tool for both planning and decision making towards creating a sustainable society.</p> <ul style="list-style-type: none"> • To help students develop a comprehensive understanding of the theory and practice of EIA, to introduce students to the legal, economic, social, administrative and technical processes for preparing or evaluating
		<p>Environmental Impact Documents.</p> <ul style="list-style-type: none"> • Acquire better understanding to the way ecology of human societies and the social impact of development on communities and regions.

DEPARTMENT OF COMMERCE
B.Com- I,II,III YEAR

OBJECTIVE OF THE PROGRAMME:

The college follows Pt. Ravi Shankar University Raipur syllabus for Bachelor in Commerce. The objectives of the prescribed course are:

- This program aim 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 determine and 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.
-

PROGRAMME OUTCOME:

1. This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., well trained professionals to meet the requirements.
- 2 .After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all Administration abilities of the Company.
3. Capability of the students to make decisions at personal and professional level will increase after completion of this course.
4. Students can independently start up their own Business.
5. Students can get thorough knowledge of finance and commerce.
6. The knowledge of different specializations in Accounting, costing, banking and finance with the practical exposure helps the students to stand in organization.

COURSE OUTCOME:

At the end of the B.Com. Course:

1. The students can get the knowledge, skills and attitudes during the end of the B.com degree course.
2. By goodness of the preparation they can turn into a Manager, Accountant , Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government employments and so on.,
3. 3. Students will prove themselves in different professional exams like C.A., C.S., CMA, UPSC and state PSC's as well as other courses.
4. The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.

5. Students will gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication, computer.
6. Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and computer operator. As well as other financial supporting services.
7. Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
8. Students will be able to do their higher education and can make research in the field of finance and commerce.

PROGRAMME SPECIFIC OUTCOME:

B.COM- I YEAR

PSO: FINANCIAL ACCOUNTING

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

PSO: BUSINESS COMMUNICATION

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

PSO: BUSINESS MATHEMATICS

1. Understanding of basic marketing mathematics by solving relevant problems, including trade discount, cash discounting, and markup & markdown calculations.
2. Apply the principles of simple interest to solve relevant problems in financial applications such as simple interest based loans.
3. 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: BUSINESS REGULATORY FRAMEWORK

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

PSO: BUSINESS ENVIRONMENT

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

PSO: BUSINESS ECONOMICS

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

B.COM II YEAR

PSO: CORPORATE ACCOUNTING

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

PSO : COMPANY LAW

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

PSO : COST ACCOUNTING

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

PSO : PRINCIPAL OF BUSINESS MANAGEMENT

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

PSO : BUSINESS STATISTICS

1. To develop the students ability to deal with numerical and quantitative issues in business
2. To enable the use of statistical, graphical and algebraic techniques wherever relevant.
3. To have a proper understanding of Statistical applications in Economics and Management significance
4. Discuss critically the uses and limitations of statistical analysis.
5. Solve a range of problems using the techniques covered.
6. Conduct basic statistical analysis of data

PSO : FUNDAMENTAL OF ENTREPRENEURSHIP

1. To aiming to develop students about Entrepreneurship development
2. To create an awareness on various Entrepreneurship Development Program.
3. To enable them to understand project formulation.
4. To familiarize the students with EDP schemes
5. To give an introduction about MSME, EDI and other training institutes in Entrepreneurship

B.COM- III YEAR

PSO : INCOME TAX

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

PSO: AUDITING

1. Student will understand the audit process from the engagement planning stage through completion of the audit, as well as the rendering of an audit opinion via the various report options.
2. 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;
3. 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.
4. 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;
5. 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
6. Student will able to explain the internal audit process including the professional standards applicable to the internal audit profession

PSO: INDIRECT TAX WITH GST

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

PSO : MANAGEMENT ACCOUNTING

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

PSO : FINANCIAL MANAGEMENT (Group A)

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

PSO : 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: PRINCIPLES OF MARKETING (Group B)

1. To introduce the marketing concept and how we identify, understand and satisfy the
2. Needs of customers and markets.
3. To analyze companies and competitors and to introduce marketing strategy to increase
4. Awareness of the strategic and tactical decisions behind today's top performing brands.
5. The marketing concept and environment

PSO: INTERNATIONAL MARKETING

1. Students will be an expert in international marketing management with competencies in applied business research. Furthermore, you will learn responsible business and teamwork skills.
2. 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.
3. Able to interpret the special characteristics of an international knowledge-intensive environment and originations and their role in marketing decision-making.
4. 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: 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: 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: FUNDAMENTAL OF INSURANCE (Group D)

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

PSO: MONEY AND BANKING SYSTEM

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

B.A., B.Sc. & B.Com. (PART – I, II & III)

PAPER - II

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.
-

PROGRAMME OUTCOME:

English being the second language in the state and the other in the official use and understanding nationwide the course of English Language programme hence ensures:

The proper reading and writing of the prominent English texts

Understanding of the texts

Development of the curiosity and aesthetic sense towards the language

Learning of the basic grammar and phonetics

Learning of the syntax and morphology of the language

Use of the correct language

Ensures the learner read the other texts in the language

COURSE OUTCOME:

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

Read and write the in the language

Acquisition - Student will acquire knowledge of the use and interpretation of the texts.

Engage them in the life-long learning process.

Write – Student can write and describe his thoughts in the language

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

Aesthetic sense - Students will develop an aesthetic sense and a sense of love towards the literature and learning.

Expressive - The learning of the literature will make them more expressive and sharpen their artistic outlook.

Language – Students will learn and use the literary language in their writings and will also able to create poetry and prose of their own.

Future Scope – Students can secure their future in the fields of translation, transcription, teaching and education, language curators etc.

PROGRAMME SPECIFIC OUTCOME:

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: B.A./B.Sc./B .Com./ 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/ 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.

DEPARTMENT OF ARTS
POLITICAL SCIENCE
B.A. –I,II,III Year

Course Outcome:

- 01 Students will be able to access the primary literature, identify the relevant work for particular topic and evaluate the content of this study.
- 02 Establish the ideal political system and encourage students to participate in awareness programme.
- 03 The students should know the importance of democracy as the back bone of the nation.
- 04 Understand Constitutional Framework of state and central government.
- 05 Know about Right to Information Act.
- 06 Understand the basic concepts of political theories
- 07 Study the fundamental right and duties in reality
- 08 Analyze the thoughts of Political Thinkers.
- 09 To analyze the source and making of Constitution and understand the objectives of constitution.
- 10 To understand the importance of Preamble of the Constitution, Fundamental Rights, Directive Principles of State Policy
- 11 To analyze the working of the Union Executive - President, Vice-President, Prime Minister, Council of Ministers; State Executive- Governor, Chief Minister and Council of Ministers.
- 12 To understanding the working of the Union Legislature- Parliament-Composition and Functions and the Composition and functioning of the State Legislature-Vidhan Sabha; Panchayati Raj Institutions
- 13 To analyze the working of Judiciary-Supreme Court, High Courts, Judicial Review and Judicial
- 14 To Analyze the Federalism and its Working with reference to Centre-State Relations
- 15 To understand demand for State Autonomy; Emerging Trends in Indian Federalism.
- 16 To understand the working of Election Commission, Electoral Process and its defects and Voting Behavior, Electoral Reforms, Problem of Defection.
- 17 To analyze the Party System in India: National and Regional Political Parties, Interest and Pressure Groups.
- 18 Role of Caste, Religion, Language, Regionalism in India, Politics of Reservation, Emerging Trends and Challenges before Indian Political System.

PROGRAMME SPECIFIC OUTCOME:

The course of B A First Year Political Science has been divided into two papers:-

PSO 01 B.A – I Paper - 1 Political Theory

1. Understanding the origin and nature of State.
2. Assessing the social issues from the political perspective.
3. Becoming a leader of the nation with actual constitutional knowledge.
4. Have a wide variety of positions: One can work as a political advisor, a policy maker, a political journalist
5. It helps to know the political activities taking place in other countries and its impact on own nation.
6. One can be able to make a substantially critical and scientific contribution to government and society.

PSO 02 B.A – I Paper - II State Government and Polity

1. Political Science goes beyond the politics carried out in a national social system.
2. Political Science helps to understand the concept and origin of power and different types of power relationships.
3. In each and every field of society there is politics (e.g. in sports club in companies, in the pub, even in the relationship of couples).
4. It raises many questions: who decides? Who has more influence? How are the decisions being made? What are the consequences of a decision?
5. Raising questions is not enough: A political scientist also tries to find the answers in a responsible, scholarly and scientific way.
6. It makes to understand the inter-connection between local, state, national and international politics.

PSO 03 B.A – II Paper – I Western Political Thought

- 1- Providing an insight into the dominant features of Ancient Western Political Thought: Ancient Greek political thought with focus on Aristotle and Plato; Roman Political Thought: its contributions with special emphasis on the emergence of Roman law.
- 2- Examining the features of Medieval Political Thought
- 3- Evaluating the Renaissance; political thought of Reformation; and Machiavelli.
- 4- Critically examining Bodin's contributions to the theory of Sovereignty; Hobbes as the founder of the science of materialist politics; Locke as the founder of Liberalism with focus on his views on natural rights, property and consent; and Rousseau's views on Freedom and Democracy; Bentham's Utilitarianism; and John Stuart Mill's views on liberty and representative government.
- 5- Taking an insight into the following: Hegel's views on Civil Society and State; Utopian and Scientific socialism: basic characteristics.
- 6- Examining the varieties of non-Marxist socialism: Fabianism, Syndicalism, Guild Socialism, german revisionism.

PSO 04 B.A – II Paper – II Comparative Governance and Politics

- 1 Understanding the nature and developments in national and international politics
- 2 Analyzing the Indian constitutional provisions, major legislations and reforms.
- 3 Critical evaluation of social, economic and political variables for a proper understanding of the plurality of Indian society
- 4 Building overall consciousness regarding national political history, international relations and present Indian and Western political thinkers.
- 5 Encouraging a comprehensive, comparative understanding of specific world constitutions such as UK, USA, China, Russia, Switzerland and France.
- 6 Developing knowledge of administrative studies with special reference to Indian administrative structures and practices.
- 7 Examining India's foreign relations with her neighbors and great powers.
- 8 Use of case study method for analyzing the working of important international and regional organizations like UN, EU, ASEAN

PSO 05 B.A – III Paper – 1 International Politics

- 1- Explaining scope and subject matter of International Relations as an autonomous academic discipline.
- 2- Approaches and methods to study the discipline through Political realism, Pluralism and World system's Model.
- 3- Examining the issues of Underdevelopment, Terrorism, Regionalism and Integration that characterizes the Post Second World War order.
- 4- Studying the role of Diplomacy, Propaganda and Military capabilities in the making of foreign policy.
- 5- Explaining certain basic concepts like Globalization in contemporary world order.
- 6- Describing the Cold War phases and understanding the post-cold war era.
- 7- Discussing the developments in European Ethno-nationalism since 1990's. Tracing the growth of European Union
- 8- Examining Indian Foreign Policy: Basic Principles, Evolution and Bilateral Relations.
- 9- Evaluating the working of UN and its organs; Peace keeping Function and Human Rights.
- 10- Analysing the Foreign Policy of USA and China.
- 10- Studying the developments in third world countries in post-world war II era like NAM: Relevance, ASEAN, SAFTA and SAARC, OPEC, OAU, West Asia-Palestine problem after Cold War.

PSO 06 B.A. – III Paper - 2 Public Administration

- 1- Explaining the nature, scope and evolution of Public Administration; Private and Public Administration; Principles of Socialist Management.
- 2- Discussing making of Public Policy Making and methods of Implementation
- 3- Analyzing the major Concepts in Public Administration.
- 4- Tracing the Challenges in the discipline of Public Administration like New Public Administration (NPA); Comparative Public Administration (CPA) and Development Administration
- 5- Discussing the Ecological approach to Pub. Adm.
- 6- Analyzing the Administrative Processes: decision making; communication and control; leadership; co-ordination.
- 7- Discussing Weber and Marxian theories of bureaucracy
- 8- Studying the Organization of the Union Government and State Government.
- 9- Examining the Institutions of Local Self Government in India
- 10- Assessing the relationship between the Citizen and Administration: Lokpal and Lokayukt.
- 11- - Understanding the concept of District Administration in India.
- 12- Examining the Institutions of Financial Administration in India.
- 13- Analyzing the Civil Service in India.
- 14- Explaining the Planning and Planned Administration in India. Continuity and Change in Indian Administration.

**BACHELOR OF ARTS
ECONOMICS
First, Second & Third Year**

Course Outcomes

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

- 1: Understand the fundamental concepts of Economics
- 2: Understand the theory of Production and Cost
- 3: Understand the process of commercial and central Banking
- 4: Study economic development and economic growth
- 5: Study Environment, ecology and pollution control.

PSO -1 BA-I 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 BA-I 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.

PSO -3 BA-II 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 BA-II 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.

PSO -5 BA-III 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 BA-III 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.

Bachelor of Arts
Sociology
(B.A. PART – I, II & III)

OBJECTIVES OF THE PROGRAMME:

The college follows Hemchand Yadav Vishwavidyalaya, Durg syllabus for Bachelor of Arts.

The objectives of the prescribed course is:

- To spread origin and development of sociology to students and familiarisation with fundamental concepts of sociology.
- To provide knowledge of traditional and contemporary social structure and problems of Indian society.
- To providing knowledge about crime which are happening in modern society.
- To broad analysis of tribal society and a distinct study of major tribes of Chhattisgarh.
- To share knowledge of the methods of social research.

COURSE OUTCOME:

At the end of the BA course with subject Sociology the student will be able:

- To acquire sociological knowledge by understanding basic concepts in sociology
- To other disciplines this will be an initiation to develop sociological imagination and to look beyond their immediate surroundings
- To understand the social processes and study of society.
- To reflect on the issues and changing trends in Indian society.
- To perceive the adaptive experiences by social groups in villages, towns, cities, and regions. Students will understand how the basic social units of family, caste, and community are intimately connected with one another and with other social units through social and cultural networks of various kinds that incorporate the social units into the complex structure of Indian society. Within this broadened conception of Indian society, students will be prepared to trace the changing relations of politics, and economics
- To introduce to the language and logic of research design in order to provide with a good foundation for future learning
- To learn first-hand about the successes and problems of research by trying out data collection method on a small scale

SCHEME OF EXAMINATION

There are two papers in the subject Sociology in an academic year. Each paper carrying maximum marks of 75 and minimum passing marks will be 50 of the total.

PROGRAMME OUTCOME:

The BA with subject Sociology ensures:

To develop a strong foundation of sociology as a distinctive discipline in Social Science arena, its nature, scope and relationship.

To understand the significance of sociology in studying human societies with variable features and attaining different positions across a variable continuum of stages of technological, economic and social development and change.

To conceptualize the process of social change, development of modern organizations, and the importance of demography in bringing about social change.

To understand the methodology of sociological research, its importance and application of different approaches to understand, analyze and resolve social issues for a better life in society as a whole.

PROGRAMME SPECIFIC OUTCOME:

The course of BA in subject sociology has been divided into two papers:

PSO 01: BA Part I – Paper I – Introduction to Sociology- (0115)

The paper covers the course of sociology and acquire knowledge regarding:

Sociological meaning, Nature, Scope, subject matter and significance and its basic concept

Social Institution: Marriage, Family and kinship. culture, socialization social control, norms and values

Social Stratification, Social Mobility

Social Change

Social System and Process

PSO 01: BA Part I – Paper II – Contemporary Indian Society (0116)

Classical View about Indian Society

The Structure and Composition of Indian Society

Basic Institution of Indian Society

Familial Problems

Social Problems

PSO 02: BA Part II – Paper I – Society in India (0185)

The paper prepares students in the field of society with brief knowledge of Indian Societal Problem and Solutions

View about Indian Society in the Classical views, dharma field views

The Structure and Composition of Indian Society

Basic Institution of Indian Society

Familiar and social problem

PSO3: BA Part II – Paper II Crime and Society - II (0186)

Conception and types of Crime

Social Structure and Anomie criminality

Nature of social change and crime in India Social Diso-Denization,

Alcoholise Drug Addiction, beggary fact in society

Major theories of punishment, objective and forms and modern correctional concept

Correctional process: Role of Police and Judiciary in Indian

Development of Jail Reform in India

PSO: BA Part III – Paper I – Sociology of Tribal Society (0246)

The concept and Characteristics of Tribal society, distinction in Tribe and Caste

Classification of Tribal people in various part

Sociocultural profile

Social Mobility and change sensitization, schemes of development various tribal movement

Problem of Tribal people: Poverty illiteracy, indebtedness and exploitation study of tribal immunities in Chhattisgarh

PSO: BA Part III – Paper II (A) – Social Research Method (0247)

To understand the basic framework of research process

In defining various research designs and techniques

To identify various sources of information for literature review and data collection

To discuss the ethical dimensions of conducting applied research

Appreciating the components of scholarly writing and evaluate its quality

To understand the various data analysis techniques (Mean, Mode, Median, Range and Standard deviation)

GEOGRAPHY

B. A. –I,II,III YEAR

PROGRAM OUTCOME

After completing B.A. Program in Geography, students will be able to

1. Knowledge outcomes:

- Demonstrate knowledge of physical and cultural features of the earth and locate them on a map.
- Know about the basic disciplines of Geography and its sub branches.
- Know the basic concepts and terminologies used in Geography like interior of the earth, plate tectonic, sea floor spreading, population growth, disasters, composition and structure of atmosphere, hydrosphere, etc.
- Differentiate between minerals and rocks, weather and climate, interior of the earth, basic industries, farming etc.
- Get information about the causes and effects of local, national and international problems like global warming, acid rain, ozone depletion, soil degradation, deforestation etc.

2. Skill outcomes:

- Carry out surveying and learn the art of map making and prepare maps for the areas with the help of surveying techniques.
- Gain knowledge of quantitative methods and their ability to use statistical and cartographical methods to solve geographical problems.
- Construct various types of projections and scales as per requirement of the study.
- Collect primary and secondary data in the field.
- Apply various statistical formulas to analyze data.
- Use cartographic techniques with the help of simple software techniques like MS Excel.
- Handle topographical and weather maps and interpret them.
- Identify types of rocks.
- Know about Geographical Information System (GIS) and Remote Sensing (RS)

PROGRAM SPECIFIC OUTCOME

- Students learn about formation of landforms and identify various landforms around them.
- Students learn about various economic activities of man and their spatial temporal distribution.
- Students acquire knowledge of basic surveying and map making.
- Students know about disasters, their causes and managing disasters.
- Students come to know about geographical, socio-economic and political background of India.
- Students apply geographical knowledge in their day to day life like being alert about disasters, weather and climate data,

COURSE OUTCOME

GEOGRAPHY: Elements of Geomorphology

- Students would be acquainting with the utility and application of Geomorphology in different regions and environment.
- Understand the fundamental concepts of the earth.
- Describe the interior structure of the earth and discuss various theories behind the drifting of the continents.
- Name various types of rocks and their sub types also understand their characteristics.
- Classify various types of crustal movements and elaborate their effects on the earth's surface.
- Understand work of denudation agents and their associated landforms and know importance and need to protect them.

Geography of Disaster Managements

- Students would be aware of concept of disaster and its relationship with Geography.
- Classify various types of disasters.
- Understand terminology and concepts used in Disaster Management.
- Elaborate structural and non-structural measures used in Disaster Management.
- Discuss causes, effects of disasters and locate areas on the map.
- Differentiate global issues and describe their causes, effects and remedies.
- Name case studies of Indian and global disasters and discuss them.

Economic Geography

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

Fundamental of Geographical Analysis

- Students convert verbal scale to numeric and vice versa British to metric and vice versa
- Draw projections as per need and area
- Represent data by using various techniques
- Handle surveying instruments and different surveying techniques to prepare map layout and handle surveying
- Design questionnaire and collect primary data

Regional Geography of India

- Students would be understanding geography of our nation.
- Acquire an understanding and relationship of between physiography and drainage, climate, soil
- Locate resources of the country on map
- Understand significance of age and discover new technique used in agriculture
- Develop a solid understanding of the concept of region and its importance in planning and development
- Elaborate relationship with India and its neighbouring countries.
- Aware about the resources and its conservations.

Agricultural Geography

- Students correlate activity of agriculture and its determinants
- Classify various types of agriculture in the world and differentiate
- Discuss the problems and prospects of agriculture
- Acquire new methods, techniques and trends used in agriculture
- Understand the concept of sustainable agricultural development

Techniques of Spatial Analysis

- Students understand the importance of toposheets and know conventional signs and symbols
- Differentiate various methods of relief representation and draw profiles
- Handle toposheets, weather maps, aerial photographs and satellite images also interpret them
- Prepare maps using computer techniques and software
- Use various statistical techniques used in Geography.

हिन्दी विभाग

(आधार पाठ्यक्रम हिन्दी भाषा)

बी ए / बी कॉम बी एस सी त्रिवर्षीय कार्यक्रम में प्रवेश के इच्छुक विद्यार्थी कार्यक्रम की सफलता पूर्वक समाप्ति पश्चात हिन्दी भाषा के विशेष संदर्भ में सक्षम बनता है।

पाठ्यक्रम का उद्देश्य:-

उच्च शिक्षा में पाठ्यक्रमों को सामाजिक प्रासंगिकता देने के लिए विश्वविद्यालय अनुदान आयोग द्वारा अनुशंसित मार्गदर्शी सिद्धांतों के अनुसार आधार पाठ्यक्रम (हिन्दी भाषा) की शुरुवात हुई। जिसका उद्देश्य विद्यार्थियों में सम्प्रेषण कौशल के विकास के साथ ही साथ, विभिन्न विषयों की बुनियादी अवधारणाओं का ज्ञान तथा देश की संस्कृत, विरासत, भारतीय जीवन मूल्य और समाज व्यवस्था, राष्ट्रिय उपलब्धियों और विकास की दिशाओं के साथ विश्व के आधुनिक परिदृश्य का बोध जागृत करना है।

1 स्नातक स्तर पर विद्यार्थियों में सम्प्रेषण कौशल के विकास के साथ ही साथ विभिन्न विषयों की बुनियादी अवधारणाओं के लिए भाषा का अध्ययन अनिवार्य है।

2 कला के विद्यार्थियों में वैज्ञानिक विकास और समकालीन तकनीकी प्रगति की जानकारी देना है तो विज्ञान व वाणिज्य विद्यार्थी भारतीय साहित्य कला और संस्कृति की चेतना से परिचित कराना।

3 विद्यार्थियों में अंतर अनुशासनात्मक ज्ञान और चेतना के साथ एक समावेशी आधुनिक भाव बोध

और समग्र जीवन दृष्टि का विकास हो सके।

4 ज्ञान, विषय, वस्तु, भारत की सांस्कृतिक विरासत, विज्ञान और विकासशील देशों की समस्याओं के माध्यम से ही हिन्दी के भाषा ज्ञान सम्प्रेषण कौशल का विकास किया जाए।

5 विद्यार्थी हिन्दी के रूपों से परिचित हो सकें उन्हें अपने समकालीन सामाजिक और ऐतिहासिक

परिवेश की चेतना भी विकसित हो सके।

Course Outcomes

1 हिन्दी भाषा के व्याकरण नियमों को समझना ताकि बिना त्रुटियों के भाषा के उपयोग को विकसित किया जा सके।

2 समकालीन आवश्यकताओं के सहयोग से हिन्दी भाषा व साहित्य को समझने के लिए।

3 युवाओं के बीच हिन्दी भाषा का उपयोग को बढ़ावा देना और प्रसार के लिए।

4 प्रसिद्ध साहित्यकारों की दृष्टि से प्रेरणादायक जीवन दर्शन को विकसित करना।

5 कार्यालयीन हिन्दी के माध्यम से अधिकारी पत्र लिखने के कौशल को विकसित करना।

6 बुनियादी सूचना कौशल को अद्यतन और विस्तृत करने के लिए ताकि विद्यार्थी हिन्दी कंप्यूटिंग के महत्व और संभावनाओं से परिचित हो सकें।

7 आईसीटी की मदद से भाषा के उपयोग को बढ़ाने के लिए।

8 भारतीय संस्कृति और परंपरा के साथ हिन्दी में संवाद कौशल और सम्प्रेषण की दक्षता अर्जित कर अखिल भारतीय और राज्य सेवाओं की प्रतियोगी परीक्षा में सम्मिलित हो सकें।

पाठ्यक्रम को समाप्त करने के उपरांत निम्नलिखित परिणाम मिल सकते हैं

1 भारतीय भारतीय लोक सेवा आयोग की प्रतियोगिता मूलक परीक्षा में बैठने की योग्यता प्राप्त होना

2 अनुवादक के रूप में देश के प्रशासनिक व्यवस्था अथवा विविध क्षेत्रों में सहायक के रूप में नियुक्ति

3 रचनात्मक लेखन के द्वारा भारतीय संस्कृति और साहित्य के क्षेत्र में अपना योगदान दे सकते हैं।

4 इस पाठ्यक्रम के माध्यम से विभिन्न सरकारी उच्च सरकारी एवं गैर सरकारी संस्थान जैसे भारतीय रेलवे भर्ती बोर्ड, भारत संचार निगम लिमिटेड, भारतीय खाद्य निगम, संयुक्त रक्षा अकादमी,

भारतीय इस्पात प्राधिकरण आदि पर कार्यरत हो सकते हैं

5 बैंकों में हिन्दी अधिकारियों की नियुक्ति तथा विभिन्न खेलों हेतु कमेंटेटर की नियुक्ति।

6 फिल्म, दूरदर्शन, विज्ञापन, डिस्कवरी चैनल आदि में हिन्दी में उर्बिग करने हेतु नियुक्ति।

7 कुछ बहुराष्ट्रीय कम्पनियों द्वारा हिन्दी भाषा के जानकारों को प्राथमिकता।

8 स्कूलों, महाविद्यालयों, विश्वविद्यालयों में हिन्दी अध्यापन-प्राध्यापन हेतु शिक्षकों-प्राध्यापकों के रूप में नियुक्ति।

कार्यक्रम विशिष्ट परिणाम

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

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

उद्देश्य

पाठ्यक्रम संशोधन का औचित्य व्याकरण के बुनियादी ज्ञान संप्रेषण कौशल सामाजिक संदेश एवं भाषाई दक्षता को ध्यान में रखते हुए यह पाठ्यक्रम प्रस्तावित है।

1 पल्लवन संक्षेपण पारिभाषिक शब्दावली आदि के महत्व व उपयोगिता से अवगत कराना।

2 कहानी कविता व्यंग के माध्यम से साहित्य की विभिन्न विधाओं से अवगत कराना।

3 कार्यात्मक हिंदी उसके अनुप्रयोगों और अनुवाद प्रक्रिया से परिचित कराना।

4 सरकारी अथवा गैर सरकारी कार्यालयों में पत्र व्यवहार के विभिन्न रूपों से अवगत कराना।

5 देवनागरी लिपि की ऐतिहासिकता व वैज्ञानिकता से परिचित कराना।

6 कंप्यूटेशनल भाषा विज्ञान के माध्यम से इंटरनेट व नवीन तकनीक के उपयोग हेतु सक्षम बनाना।

7 हिंदी भाषा के मानक रूप व मानकीकरण की प्रक्रिया से परिचित कराना।

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

F.C. – I Paper- (Hindi Language)

उद्देश्य

पाठ्यक्रम संशोधन का औचित्य विद्यार्थी चर्चित एवं सुप्रसिद्ध व्यक्ति के लेख के माध्यम से समाज एवं राष्ट्र हित के साथ-साथ व्यक्तित्व विकास विषयक मुद्दों से परिचित हो सकें तथा व्याकरणिक एवं भाषा विषयक प्रस्तावित पाठ्यक्रम के माध्यम से हिंदी भाषा संबंधित प्रयोग पक्ष से परिचित होते हुए प्रतियोगी परीक्षाओं की दृष्टि से ज्ञानार्जन कर सकें

1 हिंदी भाषा को प्रशासन संचार जनमाध्यम और ज्ञान विज्ञान के विभिन्न अनुशासनो की भाषा रूपों से परिचित करना।

2 भाषा के व्यापारिक रचनागत और साहित्यिक संदर्भों को दृष्टिगत रखते हुए तथा छात्रों में ऐतिहासिक नैतिक वैज्ञानिक तथा सांस्कृतिक समझ विकसित करने की दृष्टि से साहित्य निबंध रूप को रखा गया।

3 विदेशी भाषा रूपों से विद्यार्थियों के लिए रोजगार की संभावनाओं में अभिवृद्धि होगी तथा हिंदी के भाषण अनुप्रयोगों का विस्तार भी होगा।

4 विद्यार्थियों में भाषा के व्यावहारिक, रचनागत एवं साहित्यिक संदर्भों को दृष्टिगत रखते हुए उनमें ऐतिहासिक, नैतिक, वैज्ञानिक तथा सांस्कृतिक समझ को साहित्य के निबंध रूपों के माध्यम से विकसित करना।

5 संज्ञा सर्वनाम विशेषण और क्रिया विशेषण संधि समास के द्वारा हिंदी का व्याकरणिक एवं व्यवहारिक ज्ञान प्रदान करना।

B.Com./B.Sc. /B.A.- III Year
F.C. – I Paper-(Hindi Language)

उद्देश्य

आधार पाठ्यक्रम की संरचना और अनिवार्य पाठ्य पुस्तक हिंदी भाषा एवं समसामयिकी का संयोजन इस तरह किया गया है कि सामान्य ज्ञान की विषय वस्तु विकासशील देशों की समस्याओं के माध्यम आधार और साथ-साथ हिंदी भाषा का ज्ञान और उसके संप्रेषण कौशल अर्जित किया जा सके । इसी प्रयोजन से व्याकरण की अंतर्वस्तु को विभिन्न विधाओं की संगीत रचनाओं और सम्मान का ज्ञान की पाठ्य सामग्री के साथ अंतर्गत किया गया है । अध्ययन अध्यापन के लिए पूरी पुस्तक की पाठ्य सामग्री है और अभ्यास के लिए विस्तृत प्रश्नावली है। यह प्रश्न पत्र भाषा का है अतः पाठ्य सामग्री का व्याख्यात्मक या आलोचनात्मक अध्ययन अपेक्षित नहीं है। पाठ्यक्रम और पाठ्यक्रम सामग्री का संयोजन निम्नलिखित पांच इकाइयों में किया जाता है।

पाठ्यक्रम संशोधन का औचित्य निर्धारित पाठ का अध्ययन एवं हिंदी भाषा प्रयोग की व्यावहारिक प्रणालियों से विद्यार्थियों को परिचित कराना तथा भाषा प्रयोग की सामान्य अशुद्धियों को दूर करने की दृष्टि से पाठ्यक्रम तैयार किया गया है विद्यार्थियों के लिए पाठ्यक्रम का विस्तार बहुत ज्यादा ना हो इसका ध्यान रखा गया है

- 1 हिंदी भाषा के प्रयोग अध्ययन तथा अधुनातन भाषा व्यवहारों की तथा वर्तमान भारत में विभिन्न क्षेत्रों के विकास के आयामों की जानकारी देना।
- 2 हिंदी भाषा और विकासशील देशों की समस्याओं से संबद्ध सामान्य ज्ञान के परिपेक्ष में हिंदी भाषा के संप्रेषण कौशल को प्राथमिक रूप में महत्व को ज्ञात करना।
- 3 शासकीय तथा व्यावहारिक भाषा ज्ञान हेतु कथन की शैलियां कार्यालय, पत्राचार तथा अनुवाद प्रतिवेदन निमंत्रण पत्रों के स्वरूपों को रचना गत एवं प्रयोग गत आधारों पर समझना।
- 4 भाषा एवं सामान्य ज्ञान के विषयों में एकरूपता लाने के लिए इनका अन्योन्याश्रित संयोजन भी अध्ययन एवं अध्यापक की सुविधा के लिए किया गया है।

Program Specific Outcomes (PSOs): कार्यक्रम विशिष्ट परिणाम

बी ए प्रथम वर्ष (हिंदी साहित्य)

प्रथम प्रश्न पत्र— प्राचीन हिंदी काव्य

(पेपर कोड— 0103)

उद्देश्य एवं प्रस्तावना

प्राचीन से तात्पर्य है आधुनिक काल से पूर्व का काल । सही अर्थ में हिंदी भाषा और साहित्य का विकास आदिकाल से शुरू होता है। इसमें धार्मिक तथा ऐतिहासिक दो प्रकार का साहित्य मिलता है जो प्रबंध, मुक्तक, रासो, फागु, चरित, सुभाषित आदि विविध काव्यरूपों में अभिव्यंजित है। मध्यकालीन साहित्य की पृष्ठभूमि के रूप में इसे प्रतिष्ठापित किया जाता है। मध्यकालीन काव्य में भक्ति काव्य जहाँ लोक जागरण को स्वर देने वाला है वही रीतिकाल अपने अलौकिक श्रृंगारिका परिदृश्य में तत्कालीन सामाजिक, सांस्कृतिक, राजनीतिक स्थितियों को बेलौस अभिव्यंजित करता है। अतः भाषा, संस्कृति, विचार, मानवता, काव्यरूपता, लौकिकता— पारलौकिकता आदि दृष्टि से इसका अध्ययन अत्यावश्यक है।

- 1 प्राचीन काव्य के प्रति विद्यार्थियों के मन में अभिरुचि उत्पन्न करना ।
- 2 विद्यार्थियों के समक्ष मध्यकालीन काव्य की समकालीनता को स्पष्ट करना
- 3 कबीर के प्रगतिशील स्वरूप व साखियां की प्रासंगिकता का वर्णन अवगत होना ।
- 4 मध्ययुग की साहित्यिक गतिविधियों से अवगत होना ।
- 5 प्राचीन हिंदी काव्य हिंदी साहित्य के तीन काल खंडों से परिचय कराता है।
- 6 मध्यकाल की काव्य प्रवृत्तियों एवं कवियों का संचयित किया गया है
- 7 सूरदास की कृष्ण लीला द्वारा जीवन— दर्शन का वर्णन।
- 8 भक्तिपंथ के साथ तुलसीदास की रामभक्ति का आस्वादन करना।

बी ए प्रथम वर्ष (हिंदी साहित्य)

द्वितीय प्रश्न पत्र — हिंदी कथा साहित्य

पेपर कोड—(0104)

उद्देश्य एवं प्रस्तावना

गद्य की प्रमुख विधाओं का द्रुत विकास इनकी लोकप्रियता का प्रमाण प्रस्तुत करता है। इसमें आधुनिक जीवन अपनी विविध कमियों के साथ यथार्थ रूप में अभिव्यंजित हुआ है। जीवन की अनुभूतियां संवेदनाओं तथा परिस्थितियों के साक्षात्कार के लिए इनका अध्ययन सर्वदा अपेक्षित है।

- 1 हिंदी कथा साहित्य के विकासयात्रा से अवगत होना ।
- 2 यथार्थ के धरातल पर लिखी गई प्रेमचंद की कहानी जहां भारतीय समाज के कड़वे सच का दर्पण है वही गबन में टूटते मूल्यों के अंधेरे में भटकते मध्यवर्ग की

- वास्तविकता से परिचय होता है।
- 3 आंचलिक कथा के माध्यम से कला के सम्मान की आकांक्षा व कलाकार के मानवीय संवेदना से साक्षात्कार होता है।
 - 4 संचित कहानियों से मातृ- हृदय की वेदना ,भारत-पाकिस्तान विभाजन की त्रासदी, स्व के विसर्जन तथा निम्न मध्यम वर्ग के बदहाली जीवन से परिचित होते हैं।
 - 5 विद्यार्थी प्रतिनिधि रचनाओं के द्वारा नारी के स्वतंत्र व्यक्तित्व उसका संघर्ष उसका स्वावलंबन तथा दांपत्य जीवन की विषमताओं अवगत हुए।
 - 6 विद्यार्थी ने संचित कहानियों के माध्यम से जीवन के विभिन्न पहलुओं का व समस्याओं को समझना तथा समाधान ज्ञात किया।
 - 7 प्रसिद्ध साहित्यकारों की रचनाओं के माध्यम से ग्रामीण- जगत व भारतीय जीवन की सच्चाई को चित्रित करने की कला से परिचित हुए।

बी ए द्वितीय वर्ष (हिंदी साहित्य)
प्रथम प्रश्न पत्र – अर्वाचीन हिंदी काव्य
पेपर कोड-(0174)

प्रस्तावना

आधुनिक काव्य आधुनिकता की विशेषताओं को समेटे हुए हैं। स्वतंत्रता प्राप्ति के पूर्व की भाव-भाषा, शिल्प, अंतर्वस्तु संबंधी समस्त विकास धारा यहां सजीव रूप में देखी जा सकती है। इसे अनदेखा करना मनुष्य की विकास यात्रा को नजरअंदाज करना है इस यात्रा के साक्षात्कार के लिए आधुनिक काव्य का अध्ययन अपेक्षित ही नहीं अपितु अनिवार्य है।

- 1 विद्यार्थियों को अर्वाचीन काव्य इस रचना विरोधी समय में अति उपभोक्तावादी विपत्ति और दैत्याकार टेक्नॉलॉजी की भूल भुलैया में फंसे हुए मनुष्य को उसकी स्थिति का एहसास कराती है।
- 2 राष्ट्रप्रेम, राष्ट्रीय जागरण और समाज सुधार की चेतना की सुसंगत और व्यवस्थित काव्यात्मक अभिव्यक्ति संचित रचनाओं में देखी जा सकती है।
- 3 विद्यार्थी अर्वाचीन काव्य में विविधता को भाषा, शिल्प और कथ्य के स्तर पर विकसित नए प्रयोगों द्वारा ज्ञात कर सकते हैं।
- 4 छायावादी कवि सूर्यकांत त्रिपाठी निराला तथा प्रकृति के सुकुमार कवि सुमित्रानंदन पंत की के व्यक्तित्व एवं कृतित्व से परिचय होगा।
- 5 नई कविता के शलाका पुरुष अज्ञेय की आधुनिक सोच व तकनीक ने आत्मबोध को नए साहित्य में तथा व्यक्ति स्वतंत्रता को साहित्य की रचनात्मक संवेदना के केंद्र में स्थापित करने की चेष्टा का बोध होता है।
- 6 विद्यार्थी को हरिऔध की प्रिय प्रवास रचना द्वारा विरहानुभूति व राधा कृष्ण के

लोकसेवक रूप के दर्शन होते हैं।

- 7 श्रीकांत वर्मा की मगध की कविताएं आत्ममंथन का मार्ग प्रशस्त कर मगध सत्ता और प्रतिष्ठान के समकालीन चरित्र को चित्रित कर उसकी त्रासदी का बखान करती हैं।

बी ए द्वितीय वर्ष (हिंदी साहित्य)
द्वितीय प्रश्न पत्र – हिंदी निबंध तथा गद्य विधाएं
पेपर कोड—(0174)

- 1 नाटक निबंध व एकांकी के विकास की विस्तृत जानकारी प्राप्त तथा नाटक व एकांकी के मध्य अंतर का स्पष्ट ज्ञान हुआ।
- 2 भारतेंदु का लोकप्रिय प्रहसन्न अंधेर नगरी में तत्कालीन ब्रिटिश स्वेच्छाचारी और सामंती व्यवस्था पर किये गये तीखे व्यंग्य का बोध तथा प्रहसन्न की संवाद योजना गीत व रंगमंचीयता को समझा जिसके कारण इसे नाचा, नौटंकी, यक्ष गान आदि विविध शैलियों में सुगमता से प्रस्तुत किया जा सकता है।
- 3 संचित एकांकियों में डॉ रामकुमार वर्मा के ऐतिहासिक एवं मनोवैज्ञानिक एकांकी औरंगजेब की आखिरी रात के विषय को जाना, भुनेश्वर के प्रतिनिधि एकांकी स्ट्राइक में मध्यमवर्गीय दांपत्य जीवन की विडंबना और विरोधाभास का तीखा और प्रभावशाली चित्र देखने को मिला।
- 4 लक्ष्मी नारायण मिश्र के एक दिन एकांकी में आधुनिकता और परंपरा के द्वंद को, भट्ट जी के दस हजार एकांकी में समकालीन सामाजिक जीवन की विडंबना को तथा डॉक्टर लाल के सामाजिक एकांकी मम्मी ठकुराइन में नारी की स्वाभाविक हार्दिकता व संवेदनशीलता के लक्षण को देखा जा सकता है।
- 5 आचार्य रामचंद्र शुक्ल के मनोविकार संबंधी निबंध क्रोध के सामाजिक स्वरूप की विस्तृत व्याख्या का बोध हुआ।
- 6 हजारी प्रसाद द्विवेदी ने जहां ललित निबंध वसंत आ गया है के माध्यम से प्रकृति की वसंतहीनता को देश की युवा पीढ़ी से जोड़ उनकी उमंगहीनता के कारणों को तलाशने का प्रयास किया, वही उस अमराई ने राम राम कही है ललित निबंध में उपभोक्तावादी मूल्यों से बिखरती हमारी नगरी संस्कृति को कैसे ग्रामीण मूल्यों द्वारा संरक्षण का सुझाव परिलक्षित होता है।
- 7 छत्तीसगढ़ी लोक नाट्य को विश्व में पहचान दिलाने वाले हबीब तनवीर के अवदान को जाना जा सकता है।

बी ए तृतीय वर्ष (हिंदी साहित्य)
प्रथम प्रश्न पत्र—जनपदीय भाषा साहित्य छत्तीसगढ़ी
पेपर कोड—(0233)

प्रस्तावना

हिंदी केवल खड़ी बोली नहीं है बल्कि एक बहुत बड़ा भाषिक समूह है। हिंदी जगत में अनेक विभाषाएं, बोलियाँ और उपबोलियाँ विद्यमान हैं जिनमें पुष्कल साहित्य संपदा है। इनके सम्यक अध्ययन और अन्वेषण की आवश्यकता है। जनपदीय भाषा छत्तीसगढ़ी निरंतर विकास की ओर अग्रसर हो रही है अस्तु इस भाषा और इसमें रचित साहित्य का इतिहास विकास को स्पष्ट करते हुए इनसे संबंधित प्रमुख रचनाकारों का आलोचनात्मक अनुशीलन करना हिंदी के वृहत्तर हित में होगा।

- 1 प्रदेश की राजभाषा छत्तीसगढ़ी भाषा के इतिहास व विकास यात्रा से परिचित होना।
- 2 छत्तीसगढ़ी भाषा में रचित विपुल साहित्य संपदा को जानने व अध्ययन का अवसर प्राप्त।
- 3 छत्तीसगढ़ी भाषा के प्रमुख प्राचीन व अर्वाचीन रचनाकारों व उनकी कृतियों से परिचित होना।
- 4 छत्तीसगढ़ के कबीर कहे जाने वाले प्राचीन कवि संत धर्मदास के काव्य में सतगुरु की महत्ता व गुरु भक्ति की अभिव्यंजना के दर्शन करना।
- 5 श्री लखन लाल गुप्त के सोनपान निबंध के माध्यम से छत्तीसगढ़ के दशहरा पर्व की सांस्कृतिक छटा को ज्ञात किया जा सकता है।
- 6 सीख सीख के गोट कविता के माध्यम से छत्तीसगढ़ी लोकोक्तियां कहावतों और मुहावरों का अध्ययन किया जाता है जो ग्रामीण जीवन में सीख की उपयोगिता को दर्शाती है।
- 7 छत्तीसगढ़ी साहित्य एवं अनुसंधान के विकास में डॉक्टर विनय पाठक के अवदान से अवगत होना।
- 8 छत्तीसगढ़ी गजल साहित्यकार मुकुंद कौशल, सुंदरलाल शर्मा, कपिल नाथ कश्यप तथा छत्तीसगढ़ी रंगकर्मी रामचंद्र देशमुख के व्यक्तित्व एवं कृतित्व से परिचित होना।

बी ए तृतीय वर्ष (हिंदी साहित्य)
द्वितीय प्रश्न पत्र – हिंदी भाषा साहित्य का इतिहास तथा काव्यांग विवेचन
पेपर कोड—(0234)

प्रस्तावना

हिंदी भाषा का इतिहास जितना प्राचीन है, उतना ही गुंढ-गहन भी । इसमें रचित साहित्य ने लगभग डेढ़ हजार वर्षों का इतिहास पूरा कर दिया है इसलिए हिंदी भाषा और साहित्य के ऐतिहासिक विवेचन की बड़ी आवश्यकता है। इसी के साथ-साथ हिंदी ने अपना जो स्वतंत्र साहित्य शास्त्र निर्मित किया है, उसे भी रूपायित करने की आवश्यकता है। इसके संज्ञान द्वारा विद्यार्थी की मर्म ग्राहिणी प्रतिभा का विकास होगा और ऐतिहासिक परिपेक्ष्य में शुद्ध साहित्यिक विवेक का सन्निवेश होगा।

- 1 हिंदी भाषा का उद्भव- विकास एवं ऐतिहासिक पृष्ठभूमि से परिचित होना।
- 2 हिंदी की मूल आधार भाषाएं तथा विभिन्न भाषाओं के विकास से परिचित होना।
- 3 भारतीय आर्य भाषा के कालखंडों से अवगत तथा हिंदी की विभिन्न बोलियों के वर्गीकरण व क्षेत्र की जानकारी प्राप्त हुई।
- 4 हिंदी भाषा के विभिन्न रूपों व हिंदी शब्द भंडार परिचित होना।
- 5 विद्यार्थियों को हिंदी साहित्य के इतिहास के काल विभाजन, नामकरण संबंधित जानकारी प्राप्त हुई।
- 6 हिंदी के विभिन्न कालों की सामाजिक, सांस्कृतिक, राजनीतिक, धार्मिक स्थिति तथा साहित्यिक पृष्ठभूमि से अवगत होना।
- 7 हिंदी साहित्य के विभिन्न कालों के प्रमुख रचनाकार व उनकी प्रतिनिधि कृतियों का तथा साहित्यिक विशेषताओं का बोध होना।
- 8 विद्यार्थियों को काव्यांग के अंतर्गत काव्य का स्वरूप, काव्य के तत्व व काव्य प्रयोजन का विवेचनात्मक अध्ययन द्वारा का विश्वास की जानकारी प्राप्त करें।