INDIRA GANDHI GOVT. COLLEGE PANDARIYA

Department of Zoology

B.Sc. Program Outcomes:-

B.sc Program Specific Outcomes (PSOS):-

By the end of this course, the students will be able to :-

1- Understand the basic concepts of all the types of animals (Vertebrates and non-vertebrates).
2- Understand the evolution, classification, anatomical details of higher group of animals.
3- Analyze the cell organelles and application of genetics, molecular biology of animal cell.
4- Identify the bacteria, viruses and animal pathogens.
5- Analyze metabolic activities of animals.
6- Understand the application of genetic engineering for the improvement species of animals.
7- Understand the basic concepts of ecology
8- Perform the procedure of laboratory technique in biochemistry, biotechnology and important of animals.
9- Prepare the students for many competitive exams like MPSC, UPSC, NEET, SET, GATE.

S. No.	Class	Course (Paper)	Course Outcomes
1	B.Sc- I	Cytology	1. The cell structure in relation to function of cells the fundamental unit of life, are concerned in this course along with molecules present in cells. 2. Apply the principles of cell biology in designing experiment, statistical analysis, and interpretation of 3. Operate and solve exercise using computation statistics software. 4. Get acquitted with basic approach in the research methodology.
		Protozoan	1. Understand the basic concept of bacteria, viruses and protozoan. 2. Analyze economic importance of bacteria and virus. 3. Discuss the life cycle of protozoan.
2	B.Sc.- II	Animal Physiology	1. Students will be able to Understand the various physiology life processes in animals. 2. They Understand the role of various hormones, signaling

			compounds, thermodynamics and enzyme kinetics. 3. During the course student will gain knowledge about the various mechanisms such as digestion, respiration circulation and reproduction.
		Metabolism	1. After completion of the course the students are familiar with various physiology aspects involved in the plant development. 2. Also the role of enzymes in it and mechanism of photosynthesis, respiration, nitrogen and lipid metabolism. 3. The student are able to isolate starch, pectin and various nutritive products form the plants.. 4. Quantities and quantification of the animal cell content and its biochemistry and mode/mechanism of synthesis etc.
3	B.Sc.- III	Genetics	1. After successful completion of this course, students will be able to Acquaint with the concepts in prokaryotic, eukaryotic and viral genetics 2. Explain central dogma of molecular biology (replication, transcription and translation). 3. Enlist and explain types of mutation, gene regulation and transposable element. 4. Conversant with laboratory Techniques via, Microscopy, SEM and TEM, Ultracentrifugation, PCR, GISH, FISH and immunochemical techniques. The flow cytometer and confocal microscopy in karyotype analysis. 5. Isolation of plant DNA and its quantification. Isolation of RNA and its quantitation. Estimation of seed proteins.
		Microbiology, Phycology and Mycology	1. Comprehend the diversity of lower cryptograms (Algae, Fungi, Bacteria, Phytoplasam and viruses.). Collection and study of algae, fungi, bacteria from different localities, identification up to generic level.

			2. Recognize the morphology, anatomy, physiology, reproduction and lifecycle pattern. 3. Their diversification and familiarize with various ecological niche. 4. Positive and negative values.
		Metabolism	1. After completion of the course the students are familiar with various physiology aspects involved in the plant development. 2. Also the role of enzymes in it and mechanism of photosynthesis, respiration, nitrogen and lipid metabolism. 3. The student are able to isolate starch, pectin and various nutritive products from the plants. 4. Quantities and quantification of the animal cell content and its biochemistry and mode/mechanism of synthesis etc.
		Ecology -I	1. On completion of this course the students are able to analyze various types of ecosystems, correlate different ecosystems. 2. To analyze the threat and suggest conservation measure. 3. The student are also trained in the environmental impact analysis. 4. Student are able to analyze, monitor various physical, chemical and biological properties of soil water and air.

INDIRA GANDHI GOVT. COLLEGE PANDARIYA

Department of Botany

B.Sc. Program Outcomes:-

B.sc Program Specific Outcomes (PSOS):-

By the end of this course, the students will be able to:-

1- Understand the basic concepts of lower group plants and morphology of higher groups.
2- Understand the evolution, classification, anatomical details of higher group plants.
3- Analyze the cell organelles and application of genetics, molecular biology in plant breeding
4- Identify the bacteria, viruses and plant pathogen
5- Analyze metabolic activities of plants
6- Understand the application of genetic engineering for the improvements of plants
7- Understand the basic concepts of ecology
8- Perform the procedure of laboratory technique in biochemistry, biotechnology and utilization of plants.

B.Sc Course Objectives :-

S. No.	Class	Course (Paper)	Course Outcomes
1	B.Sc- I year	Bacteria, Viruses, Fungi, Lichens and Algae	1. Understand the basic concept of bacteria, viruses and mycoplasma. 2. Describe the classification general characteristics of Algae. 3. Analyze economic importance of bacteria, virus and algae. 4. Discuss the life-cycle of micro organism and algae
		Bryophytes, pteridophytes ,gymnosperms and Palaeobotany	1. Compare lower group of plants with higher lower group. 2. Identify the different plant diseases. 3. Understand the economic Importance of fungi, lichens and bryophytes. 4. Discuss the classification of fungi and bryophyte. 5. Explain the classification of pteridophyta and gymnosperm. 6. Describe the economic importance of pteriodophyta and gymnosperm.
2	B.Sc- II year	Diversity of Seed Plants and their Systematic	1. Understand the paleobotany and geological time scale. 2. Identify the different types of fossils. 3. Explain the morphology and modification of plants Compare the types of inflorescence and fruits. 4. Describe the parts of flower Describe

			general taxonomic rule of plant classification. 5. Discuss the principles of botanical nomenclature. 6. Criticize the classification of angiosperm.
		Structure, Development and Reproduction in Flowering Plants	1. Preparation of herbarium. 2. Analyze the floral formula of monocot and dicot families. 3. Perform the procedure of cytological techniques. 4. Analyze the biostatistics data. 5. Understand and identify the plants under natural environment Compare the types of inflorescence and fruits. 6. Describe the parts of flower.
3	B.Sc- III year	Plant Physiology, Biochemistry and Biotechnology	1. Describe the plant growth and its growth regulators. 2. Describe the seed-dormancy and methods to break-dormancy. 3. Describe the plant-defense and role of secondary metabolites. 4. Discuss plant tissue culture technique and its application. 5. Discuss the advantages and disadvantages of genetic-engineering.
		Ecology and Utilization of plants	1. Compare the various ecological successions. 2. Explain different types of environmental pollution and its management. 3. Understand about the renewable and non-renewable natural sources. 4. Analyze the principle, types, and application of instruments. 5. Explain morphology utilization and chemical-constituents of different plants.

INDIRA GANDHI GOVT. COLLEGE PANDARIYA

Department of Chemistry

Program Outcomes : B.Sc. Chemistry

Chemistry

Department of Chemistry	After successful completion of three year degree program in Chemistry a students should be able tor
Program Outcomes	PO- 1. Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry. PO- 2. Solve the problem and also think methodically, independently and draw a logical conclusion. PO- 3. Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reaction. PO- 4. Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community. PO- 5. Find out the green route for chemical reaction for sustainable development. PO- 6. To inculcate the scientific temperament in the students and outside the scientific community. PO- 7. Use modern techniques, decent equipment's and Chemistry software's.

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Course Outcome B.Sc. Chemistry

Class- B.Sc. First Year

Course	Outcomes After Completion of this Course & students will be able to :
B.Sc. First Inorganic Chemistry	CO:1 Understand atomic structure and rules, principle related to It. CO:2 Know the structure and bonding in molecules and ions and predict the structure of molecules. CO:3 Study the periodic elements of S block, p blocks and noble gases. CO:4 Understand the basic principles of qualitative analysis.
B.Sc. First Organic Chemistry	CO:1 Distinguish between geometrical and optical isomerism. CO:2 Learn the stereochemistry of organic compounds. CO:3 Understand between aliphatic and aromatic hydrocarbons.
B.Sc. First Physical Chemistry	CO:1 Learns Mathematics and solves problem related to it. CO:2 Understand Gaseous state Chemistry, Properties and laws. CO:3 Write and expression for Rate constant for first and second order equation. CO:4 Solve the numerical problems On Chemical kinetics. CO:5 Explain surface chemistry, liquid state chemistry. CO:6 Understand the absorption of gases by solid isotherms.

Class- B.Sc. Second Year

Course	Outcomes After Completion of this Course & students will be able to :
B.Sc. Second Inorganic Chemistry	CO:1 Understand chemistry of transition metal complexes. CO:2 Learn oxidation and reduction process. CO:3 Understand coordination chemistry and various theory related to it. CO:4 Study of acid-base, non-aqueous chemistry. CO:5 Learn properties of Lanthanide and actinides.
B.Sc. Second Organic Chemistry	CO:1 Understand chemistry of organic halides. CO:2 Learn nomenclature, preparations, properties and relative reactivity of alcohols and phenols and named reactions. CO:3 Learn structure, reactivity preparations and mechanism of named reactions of aldehydes and ketones. CO: 4 Understand properties, structure, binding, and mechanism of named reactions of carboxylic acids. CO:5 Learn Chemistry of nitrogen containing organic compounds.

B.Sc. Second Physical Chemistry	CO:1 Know the meaning of phase, Component and degree of freedom. CO:2 Realize the concept related to chemical equilibrium and phase equilibrium. CO:3 Learn the thermodynamic description of exact, inexact differential and state function. CO:4 Understand thermodynamics terns and solve numerical problems related to it. CO:5 Explain different laws of thermodynamics. CO:6 Study of photochemistry and phenomenon associated with it.
Class- B.Sc. Third Year	
Course	**Outcomes** **After Completion of this Course & students will be able to :**
B.Sc. Second Inorganic Chemistry	CO:1 Understand nature of bonding in transition metal complexes. CO:2 Learn magnetic and electronic properties of transition metal complexes. CO:3 Get insight of organometallic chemistry. CO:4 Distinguish between hard, soft acid and bases. CO: 5 Understand bioinorganic Chemistry.
B.Sc. Second Organic Chemistry	CO:1 study of carbohydrates: introduction of sugars. CO:2 Understand biomolecules proteins, amino acids and nucleic acids. CO:3 Study of organometallic compounds. CO:4 Study of Synthetic dyes and synthetic polymers. CO:5 Learn instrumentation and features applications, working of several spectroscopic techniques.
B.Sc. Second Physical Chemistry	CO:1 Learn the molecular spectroscopy, Raman, Electronic and vibrational spectroscopy and its application. CO:2 Learns postulates of quantum mechanics, Schrödinger equations and its applications. CO:3 Understand molecular orbital theory and hackles molecular orbital theory. CO:4 Learns about various physical properties of molecules such as dipole moment magnetic property and relationship with molecular structure. CO:5 Know the concept of polarizability. CO: study of photochemistry Its laws and phenomenon associated with it.

Course	Outcomes After Completion of this Course & students will be able to :
B.Sc. First Year Chemistry Practical	CO-1 Study the determination of surface tension and viscosity. CO-2 Determine melting and boiling point s of various compounds. CO-3 Determine functional groups of several organic mixtures. CO-4 Determine functional groups of several organic mixtures. CO-5 Determine rate of esterification and kinetics of saponification CO-6 Perform crystallization and purification of organic compounds. CO-7 Learns best practices and practices and safety rules of laboratories.

Course	Outcomes After Completion of this Course & students will be able to :
B.Sc. Second Year Chemistry Practical	CO-1 Learns weighing, solution preparation of different molarity and normality. CO-2 Performs different volumetric and estimation of different types. CO-3 To understand chromatographic separation. CO-4 Learns determination of transition temperature. CO-5 Performs various thermochemistry experiments to understand concepts of thermochemistry. CO-6 Understand phase equilibrium through experiments.

Course	Outcomes After Completion of this Course & students will be able to :
B.Sc. Third Year Chemistry Practical	CO-1 Prepare and synthesize Various inorganic complexes and organic Compounds. CO-2 Performs binary separation of organic mixtures and analysis of compounds. CO-3 Study the gravimetric and volumetric analysis. CO-4 Study the instrumentation and performs various experiments with spectrophotometer, calorimeter, PH meter. CO-5 Learns handling of Instruments.

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Faculty of Science

B.Sc. (Maths Group) : Three Year Graduation Programs

Programe Outcome (PO)

Programe Name		Programe outcome
B.Sc. (Maths group)	PO1	The undergraduate programme in Mathematics / Physics / Chemistry is aimed at providing the students necessary inputs so as to set forth the task of bringing about new and innovative ideas/concepts so that the formulated model curricula in Mathematics / Physics / Chemistry becomes in tune with the changing scenario and incorporate new and rapid advancements and multi-disciplinary skills, societal relevance, global interface, self-sustaining and supportive learning.
	PO2	It is desired that undergraduate programme in Mathematics / Physics / Chemistry besides teaching the basic concepts of Mathematics / Physics / Chemistry should in addition have broader vision for students so that the students therefore be exposed to societal interface of Mathematics / Physics / Chemistry and the role of Mathematics / Physics / Chemistry in the development of physical, chemical and mathematical sciences & technologies.
	PO3	The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.
	PO4	The students will be able to communicate effectively throughspeaking, reading, writing and listening clearly in one Indian language and thereby express themselves to the world by connecting with different ideas, books, people,media and technology.
	PO5	The students will be able to demonstrate compassionate social concern and act with awareness of issues to contribute in civil life by volunteering impartially towards national development and thereby deliver effective citizenship.
	PO6	The students will be able to interact socially and stimulate views, reconcile disagreements and help reach consensual conclusions.

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Programe Name		Programe outcome
	PO7	The students will be able to recognize the issues of environmental perspectives and appreciate sustainable development for long term environmental sustainability
	PO8	The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.
	PO9	Apply the knowledge of Life Science, Physical and Chemical Science,Mathematics, statistics, and humanities for the attainment ofsolutions to the problems that come across in our day-to-day life/activities.
	PO10	Capability to apply, analyze and evaluate evidence, arguments, claims, policies, beliefs and theories on the basis of experiential evidence.
	PO11	Identify and analyse the problem and formulate solutions for problems using the principles of mathematics, natural sciences with appropriate consideration for the public health, safety and environmental considerations.
	PO12	Life-Long Learning Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
	PO13	Commitment to principles, codes of conduct and social responsibility in order to behave consistently with personal respect. Acquire the responsibility to contribute for the personal development and for the development of the community. Respect the ethical values, social responsibilities and diversity.
	PO14	Function as an individual, and as a member or leader in diverse teams and in multidisciplinary settings. Become an entrepreneur by acquiring technical, communicative, problem solving, intellectual skills.

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Department of Mathematics

B.Sc. (Maths Group) : Three Year Graduation Program

Programme Specific Outcome (PSO)

Programe Name		Programme Specific Outcome
B.Sc. (Maths group)	PSO1	The students after the completion of this programme will be able to understand and apply the fundamentals ofAlgebra & Trigonometry.
	PSO2	The students after the completion of this programme will be able to understand and apply the fundamentals of Calculus.
	PSO3	The students after the completion of this programme will be able to understand and apply the fundamentals of Vector Analysis & Geometry.
	PSO4	The students after the completion of this programme will be able to understand and apply the fundamentals of Advanced Calculus.
	PSO5	The students after the completion of this programme will be able to understand and apply the fundamentals of Differential Equations.
	PSO6	The students after the completion of this programme will be able to understand and apply the fundamentals of Mechanics.

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Programe Name		Programme Specific Outcome
	PSO7	The students after the completion of this programme will be able to understand and apply the fundamentals of Analysis.
	PSO8	The students after the completion of this programme will be able to understand and apply the fundamentals of Abstract Algebra.
	PSO9	The students after the completion of this programme will be able to understand and apply the fundamentals of Advanced Discrete Mathematics.
	PSO10	The students after the completion of this programme will be able to understand and apply the fundamentals of Mechanics, Oscillation and Properties of Matter.
	PSO11	The students after the completion of this programme will be able to understand and apply the fundamentals of Electricity, Magnetism and Electromagnetic Theory.
	PSO12	The students after the completion of this programme will be able to understand and apply the fundamentals of Thermodynamics, Kinetic Theory and Statistical Physics.
B.Sc. (Maths group)	PSO13	The students after the completion of this programme will be able to understand and apply the fundamentals of Wave, Acoustics and Optics.
	PSO14	The students after the completion of this programme will be able to understand and apply the fundamentals of Relativity, Quantum Mechanics, Atomic, Molecular and Nuclear Physics.
	PSO15	The students after the completion of this programme will be able to understand and apply the fundamentals of Solid State Physics, Solid State Devices and Electronics.

PRINCIPAL

Programe Name		Programme Specific Outcome
	PSO16	The students after the completion of this programme will be able to understand and apply the fundamentals of Inorganic Chemistry.
	PSO17	The students after the completion of this programme will be able to understand and apply the fundamentals of Organic Chemistry.
	PSO18	The students after the completion of this programme will be able to understand and apply the fundamentals of Physical Chemistry.

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Department of Mathematics

B.Sc. (Maths Group) : Three Year Graduation Program

Course Outcome (CO)

Class	Paper name and paper code	Course outcome number	Course Outcome
B.Sc First year	Trigonometry and algebra, Paper Code : 0798	CO1	Student are understand the concept of matrix, Eigen value, Eigen vector, Casey Hamilton theorem and Characteristic equation of matrix
		CO2	Student are understand the concept of application of matrix, system of linear equation, Solution of cubic equation, Descart's method.
		CO3	Student are understand the concept of mapping equivalence relation and partition, mappings, equlence relation,
		CO4	Student are understand the concept of group theory, Isomorphism, homomorphism , fundamental theory of homomorphism, subring, Integral domain, field theory.
		CO5	Student are understand the concept of use of De-Moiver's theorem and its application, expansion of trigonometry function. Gregory series, summation of series
B.Sc. First year	Calculas, Paper Code : 0799 Calculas, Paper Code : 0799	CO1	Student are understand the concept of define the basic concepts and principles of differential and integral calculus of real functions and sequences and series.
		CO2	Student are understand the concept of interpret the geometric meaning of differential and intergral calculus
		CO3	Student are understand the concept of apply the concept and principles of differential and integral calculus to solve geometric and physical problems
		CO4	Student are understand the concept of organiz solving of complex problems by combining the acquired mathematical concepts and principles
		CO5	Student are understand the concept of expand functions using Taylor's and Maclaurin's series, Leibritz theorem and use their applications
		CO6	Student are understand the concept of acquire the concept of asymptotes and envelopes

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Class	Paper name and paper code	Course outcome number	Course Outcome
		CO7	Student are understand the Extract the solution of differential equirations of the first order and of the first degree by variables separable, Homogeneous and Non-Homogemeous methods.
		CO8	Student are understand the Find a solution of differential equations of the first order and of a degree higher than the first by using methods of solvble for p, x and y.
		CO9	Student are understand the Solve first order differential equations utilizing the standard techniques for separable, exact, linear, homogeneous, or Bernoulli cases.
		CO10	Student are understand the Able to find the complete solution of a nonhomogeneous defferential equation as a linear combination of the complementary function and a particular solution.
		CO11	Student are understand the Introduced to the complete solution of a nonhomogeneous differential equation with constant coefficients by the method of undetermined coefficients.
		CO12	Student are understand the Able to find the complete solution of a differential equation with constant coefficients by variation of parameters.
B.Sc. First year	Vector analysis and Geometry, Paper code (0800)	CO1	Student are understand the Acquire the basic knowledge of vector diffierentiation and vector integration
		CO3	Student are understand the Determine and apply, the important quantities associated with scalar fields, such as partial derivatives of all orders, the gradient vector and directional derivative
		CO4	Student are understand the Determine and apply, the importat quantities associated with vector fields such associated with vector fields such as the divergence, curl, and scalar potential
		CO5	Student are understand the Calculate line integrals along piecewise smoth paths; interpret such quantities as work done by a force
		CO6	Student are understand the Evaluate line, surface, double and triple integrals and use these integrals to verify the seminal integral theorems (Green's theorem in the plane, Gauss' divergence theorem and stokes' theorem)
		CO7	Student are understand the Apply vector algebra lechniques to analyze problems involving two and three dimensional centities- lines, planes and surfaces
		CO8	Student are understand the Use Green's theorem to evaluate line integrals along simple closed contours on the plane

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Class	Paper name and paper code	Course outcome number	Course Outcome
B.Sc. Second year	Advance Calculus, Paper code:	CO9	Student are understand the Compute the curl and the divergence of vector fields
		CO10	Student are understand the Employ the techniques of the higher dimensional differential calculus in problems of physical interest
		CO11	Student are understand the Compute the area of parametric surfaces in 3-dimensional space
		CO12	Student are understand the Apply Stokes' theorem to give a physical interpretation of the curl of a vector field
		CO13	Student are understand the Use Stokes theorem to give a physical interpretation of the curl of a vector field
		CO14	Student are understand the Use the divergence theorem to give a physical interpretation of the divergence of a vector field
		CO15	Student are understand the Analyze the structure and nature of surfaces
		CO1	Student are understand the Acquire the concept of finding partial derivatives and associated rules
		CO2	Student are understand the Develop competency in applying the idea of partial derivatives
		CO3	Student are understand the Acquire the basic ideas of double and triple integral
		CO4	Student are understand the Apply the techniques of double and triple integral to various problems of finding length of plane curves, surface areas and volumes of surface of revolution
		CO5	Student are understand the Change variables in multiple integrals
		CO6	Student are understand the Familiarized with different three dimensional surfaces and their properties
		CO7	Student are understand the Develop skill in finding the partial derivatives of functions of several variables and various rules associated
		CO8	Student are understand the Apply the chain rule for functions of several variables
		CO9	Student are understand the Use the Lagrange multiplier method to find extrema of functions with constraints
B.Sc. Second Year		CO10	Student are understand the Apply the kbowledge of lagrange multipliers in finding the extreme values of functions.

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PANDARIA, DISTT. KAWARDHA (C.G.)

Class	Paper name and paper code	Course outcome number	Course Outcome
		CO11	Student are understand the Make a comparative study of the extreme values of functions of a single independent variable with functions
	Differential Equation, Paper code :	CO1	Student are understand the Form partial differential equations and find the solution of first order partial differential equations for some standard types.
		CO2	Student are understand the Use inverse Laplace transform to return familiar functions and apply Laplace transform to solve second order linear differential equation and simultaneous linear differential equation
		CO3	Student are understand the Apply various power series methods to obtain series solutions of differential equation
		CO4	Student are understand the Compute all the solutions of second and higher order partial differential equations with constant coefficients
		CO5	Student are understand the Understand the concept of functional
		CO6	Student are understand the Understand the concept and applications of eigen value problems.
		CO7	Student are understand the Understand differential equation of strum Liouville type.
	Machanics, Paper Code :	CO1	Student are understand the Define Resultant, Component of a Force, Coplanar forces, like and unlike parallel forces, Moment of a force and Couple with examples.
		CO2	Student are understand the Prove the Paralielogram of Forces, Trianlge of Forces, Converse of the triangle of Forces, Polygon of Forces, Laml's Theorem, Varignon's theorem of moments.
		CO3	Student are understand the Find the resultant of coplanar couples, equilibrium of couples and the equation to the line of action of the resultant.
		CO4	Student are understand the Discuss friction, Forces of Friction, cone of Friction, Angle of Friction and Laws fo friction.
		CO5	Student are understand the Define catenary and obtain the equation to the common catenary.
		CO6	Student are understand the Find the tension at any point and discuss the geometrical properties of a catenary.
		CO7	Student are understand the Define Projectile, impulse, impact and laws of impact and prove that the path of a projectile is a parabola.

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Class	Paper name and paper code	Course outcome number	Course Outcome
B.Sc. 3rd Year	Analysis	CO8	Student are understand the Define Simple Hormonic Motion and find its Geometrical representation and find the Composition of Simple Hormonic Motion and the dirrerential equation of a central orbit.
		CO1	Student are understand the Apply the fundamental concepts of Fourier series, Fourier Sine series, Fourier Cosine series to find series representation of irrational numbers.
		CO2	Student are understand the Learn the basic abstract ideas of analysis
		CO3	Student are Learn the basic ideas open sets, closed sets, limit point, isolated points, boundary points, subspace, product metric spaces and apply them to study the nature of sets.
		CO4	Student are Learn the theorems identify the continuity of a function which is defined on metric spaces, at a given porit and identify the set of points on which a function is continuous by using different theorems
		CO5	Student are Learn about analytic functions, Cauchy-Riemann differential equations, harmonic functions Mobius transformations.
		CO6	Student are Learn about Rimann integral
		CO7	Student are Ability to test the convergence of improper integrals.
	Abstract Algebra, Paper Code:	CO1	Student are Introduction to vector space and subspace
		CO2	Student are Use the concept of basis and dimension of vector spaces linear dependence and linear inderpendence to solve problems.
		CO3	Student are Use the concept of inner product spaces to find norm of vectors, distance between vectors, check the orthogonality of vectors, to find the orthogonal and orthonormal basis.
		CO4	Student are Apply the properties of linear transformations to linearity of transformations, kernel and rank of linear transformations, inverse transformations to solve the problems of matrix transformations, change of basis.
		CO5	Student are Identify the concept of Normal groups and Quatients groups.
		CO6	Student are Analyze Permutation groups and Counting principle.
		CO7	Student are Explain Sylow theorem and its applications.
		CO8	Student are Use the concept of homomorphism and homomorphis for rings.

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Class	Paper name and paper code	Course outcome number	Course Outcome
	Discrete Mathematics, Paper Code :	CO9	Student are Provide information on ideals and Quotient rings, Field of Quotient of an integral Dormain.
		CO1	Student are Basic set theory, cardinal numbers, different concepts of infinity.
		CO2	Student are Basic combinatorics, induction, inclusion exclusion, pigeon hole principle
		CO3	More advance to place in combinatorics : recurrence relations, generating functions, graphs, trees, planar graphs, trees, planar graph
		CO4	Student are Describe the TF statements, connectives, atomic and compound statements.
		CO5	Student are Illustrate tautology, Tutological, truth tables, Normal Forms, Principal Normal Forms.
		CO6	Student are understand Interpret Lattices, Boolean Algebra, Switching circuits
		CO7	Understand the language and grammer
		CO8	Student are understand Use of finite state machine as language recogrizers

PRINCIPAL
COLLEGE
KORDHAM (C.G.)

Part A: Introduction				
Program: Certificate Course		Class: B. A. / B.Sc. Part I	Year: 2022	Session:2022-2023
1	Course Code	Paper – MATH-2T		
2	Course Title	Algebra		
3	Course Type	Theory		
4	Pre-requisite (if any)	No		
5	Course Learning Outcome (CLO)	**This Course will enable the students to:** • Employ De Moivre's theorem in a number of applications to solve numerical problems. • Learn about the fundamental concepts of groups, subgroups, normal subgroups, isomorphism theorems, cyclic and permutation groups. • Recognize consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix, using rank. • Find eigen values and corresponding eigen vectors for a square matrix. • Understand real vector spaces, subspaces, basis, dimension and their properties.		
6	Credit Value	4		
7	Total Marks	Maximum Marks : 50	Minimum Passing Marks :	

Part A: Introduction				
Program: **Certificate Course**		Class: **B.A./ B.Sc. I Year**	Year: **2022**	Session: **2022-2023**
1	Course Code	**MATH-1P (I)**		
2	Course Title	I - Lab 01 - Calculus and Algebra		
3	Course Type	**Practical**		
4	Pre-requisite (if any)	No		
5	Course Learning Outcomes (CLO)	At the end of course, Students will be able to • Learn Free and Open Source Software (FOSS) tools for computer programming • Solve problems on Calculus and Algebra theories studied in Mathematics Paper 1and 2 by using FOSS softwares. • Acquire knowledge of applications of Calculus and Algebra through FOSS.		
6	**Credit Value**	**2**		
7	**Total Marks**	**Max. Marks: 50**	**Min Passing Marks : 17**	

INDIRA GANDHI GOVT. COLLEGE PANDARIA
DIST. - KABIRDHAM(C.G.)

Website - igcollegepandaria.ac.in Email- pandariacollege@gmail.com

Department of Physics

B.Sc. (Physics Group): Three Year Graduation Program

Course Outcome(CO)

Class	Paper name and paper code	Course outcome number	Course Outcome
B.Sc. First year	MECHANICS, OSCILLATIONS AND PROPERTIES OF MATTER PAPER CODE -0793	CO1	Student are understand the concept of Cartesian, Cylindrical and Spherical coordinate system, Intertial and non-inertial frames of reference, uniformly rotating frame, Coriolis force and its aaplications. Motion under a central force, Kepler's laws.
		CO2	Student are understand the concept of Rigid body motion, rotational motion, moments of inertia and their products, principal moments & axes, introductory idea of Euler's equation. Potential well and Periodic Oscillations.
		CO3	Student are understand the concept of Bifilar oscillations, Helmholtz resonator, LC circuit, vibrations of a magnet, oscillations of two masses connected by a spring. Superposition of two simple harmonics motions off the same frequencies. Power dissipation, Lissajous figures.
		CO4	Student are understand the concept of E as an accelerating field, electron gun, eletron gun, case of discharge tube, linear accelerator, E as deflecting field- CRO sensitivity, Transverse B field, 180° deflection, mass spectrograpgh curvature tracks for energy determination, principle of a cyclotron.
		CO5	Student are understand the concept of Elasticiy: Strain and stress elastic limit, Hooke's law, Modulus of rigidity, Poisson's ratio, Bulk modulus, Euler's equation, Bernaulli's theorem.
		CO1	Student are understand the concept of Repeated integrals of a function of more than one variable, definition of a double and triple integral. Gradient of a scalar field and its geomectrical interpretation, divergence and curl of a vector field, and their geomerical interpretation, krichiff law, thevenin theorem, Norton theorem.
		CO2	Coulomb's law in vaccum expressed in - Vector forms, calculations of E for simple distributions of charges at rest, dipole and quadrupole fields, gauss law and its application: E due to (1) an Infinite Line of Charge, (2) a Charged Cylindrical Conductor, (3) an Infinite sheet of Charge and Two Parallel Charged Sheets, capacitors.

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B.Sc. First year	ELECTRICITY, MAGNETISM AND ELECTROMAGNETIC THEORY PAPER CODE -0794	CO3	Student are understand the concept of Dielectric constant, Polar and Non Polar dielectrics, Dielectrics and Gauss's Law, Dielectric Polarization, Electric Polarization vectors P, Electric displacement vector D Ferroelectric and Paraelectric dielectrics, Steady current, current density J, non-steady current and continuity equation, rise and decay of current in LR, CR and LCR circuits.
		CO4	Student are understand the concept of Magnetization Current and magnetization vector M, Three magnetic vectors and their relationship, Magnetic permeability and susceptibility, Diamagnetic, paramagnetic and ferromagnetic substances, B.H. Curve, Biot-Savart law's Law and its applications: B due to (1) a Straight Current Carrying Conductor and (2) Current Loop, Current Loop as a Magnetic Dipole and its Dipole Moment (Analogy with Electric Dipole), Ampere's Circuital law (Integral and Differential Forms).
		CO5	Student are understand the concept of Electromagnet induciton, Faraday's law, electromotive force, integral and differential forms fo Faraday's law Mutual and self inductance, Transformers, energy in a static magnetic field, Maxwell's displacement current, Maxwell equations.

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Department of Physics

B.Sc. (Physics Group): Three Year Graduation Program

Course Outcome(CO)

Class	Paper name and paper code	Course outcome number	Course Outcome
B.Sc. Second year	THERMODYNAMICS,KINETIC THEORY AND STATICAL PHYSICS PAPER CODE -	CO1	Student are understand the concept of The laws of thermodynamis : The Zeroth law, first law of thermodynamics, internal energy as a state function, reversible and irreversible change, Carnot's cycle, carnot theorem, second law of thermodynamics. Claussius theorem inequality, S-T diagram, principle of increase of entropy.
		CO2	Student are understand the concept of Thermodynamic function, Internal energy, Enthalpy, Helmholtz function and Gibb's free energy. Maxwell's thermodynamical equations and their applications, TDS equations, Block body spetcrum, Stefan-Boltzmann law.
		CO3	Student are understand the concept of Maxwellian distribution of speeds in an ideal gas: Distribution of speeds and velocities, experimental verification, distnction between mean, rms and most probable speed values. Doppler broadening of spectral lines. Transport phenomena in gases: Molecular collisions mean free path and collision cross sections.
		CO4	Student are understand the concept of The statical basis of thermodynamics: probability and thermodynamic probability, principle of equal a priori probabilities, statical postulates. Concpt of Gibb's ensemble, γ phase space and μ phase space, Boltzmann entropy relation.
		CO5	Student are understand the concept of Indistinguishability of particles and its conseuences, Bose-Einstein & Fermi-Dirac conditions, Concept of partition function, Derivation of Maxwell-Boltzmann, Bose-Einstein and Fermi-Dirac Statistics, Limits of B-E and F-D statics to M-B statistics.
		CO1	Student are understand the concept of Waves in media: Speed of transverse on uniform string, speed of longitudinal waves in a fluid, energy density and energy transmission in waves. Waves over liuid surface: gravity waves and ripples. Group velocity and phase and relationship between them. Production and detection of ultrasonic and infrasonic waves and applications. Reflection, refraction and diffraction of sound: Acoustic impediance of a medium, percentage reflection & refraction at a boundry.

B.Sc. Second year	WAVES, ACOUSTICS AND OPTICS PAPER CODE -	CO2	Student are understand the concept of Fermat's principle of extremum path, the aplanatic points of a sphere and other applications. Cardinal points of an optical system, thick lens and lens combinaitons. Lagrange equation of magnification, telescopic combinations, telephoto lenses.
		CO3	Student are understand the concept of Interferene of light: The principle of superpositions, two slit interferece, coherence requirement for the sources, optical path retardations, Conditions for sustained interference, Theory of interference, Thin films Newton's rings and Michelson interferometer and their appliations, Fabry-Perot interferometer, Rayleigh refractometer.
		CO4	Student are understand the concept of Diffraction, Types of Diffraction, Fresnel's diffration half-period zones, phasor diagram and integral calculus methods, the intensity distribution, Zone plates, diffraction due to straight edge.
		CO5	Student are understand the concept of Laser system: Basis properties of Laser, coherence length and cohernce time, spatial coherence of a source, Einsten's A and B coffifients, Spontaneous and induced emissions, conditions for laser action, population inversion, Types of Laser: Ruby and He-Ne laser.

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Department of Physics

B.Sc. (Physics Group): Three Year Graduation Program

Course Outcome(CO)

Class	Paper name and paper code	Course outcome number	Course Outcome
B.Sc. Third year	RELATIVITY, QUANTUM MECHANICS, ATOMIC MOLECULAR AND NUCLEAR PHYSICS PAPER CODE -	CO1	Student are understand the concept of Reference systems, inertial frames, Galilean invariance propagation of light, Michelson- Morley experiment, search for ether. Postulates for the special theory of relativity, Lorentz transformations, length contraction, time dilation, velocity addition, variation of mass with velocity, mass energy equivalence, particle with zero rest mass.
		CO2	Student are understand the concept of Origin of the quantum theory : Failure of classical physics to explain the phenomena such as black-body spectrum, photoelectric effect, Compton effect, Wave-particle duality, uncertainty principle, de Broglie's hypothesis for matter waves, the concept of Phase and group velocities, experimental demonstration of mater waves. Davisson and Germer's experiment. Consequence of de Broglie's concepts, Bohr's complementary Principle, Bohr's correspondence principle, Bohr's atomic model, energies of a particle in a box, wave packets. Consequence of the uncertainty relation, gamma ray microscope, diffraction at a slit.
		CO3	Student are understand the concept of Quantum Mechanics: Schrodinger's equation, Statistical interpretation of wave function, Orthogonality and normalization of wave function, Probability current density, Postulatory basis of quantum mechanics, operators, expectation values, Ehrenfest's theorem, transition probabilities, applications to particle in a one and three dimensional boxes, harmonic oscillator in one dimension, reflection at a step potential, transmission across a potential barrier.
		CO4	Spectra of hydrogen, deuteron and alkali atoms spectral terms, doublet fine structure, screening constants for alkali spectra for s, p, d and f states, selection rules. Discrete set of electronic energies of molecules, quantisation of vibrational and rotational energies, determination of inter-nuclear distance, pure rotational and rotation vibration spectra. Dissociation limit for the ground and other electronic states, transition rules for pure vibration and electronic vibration spectra. Raman effect, Stokes and anti-Stokes lines, complimentary character of Raman and infrared spectra, experimental arrangements for Raman spectroscopy.
		CO5	Student are understand the concept of Structure of nuclei:- Basic Properties of Nuclei: (1) Mass, (2) Radii, (3) Charge, (4) Angular Momentum, (5) Spin, (6) Magnetic Moment (μ), (7) Stability and (8) Binding Energy, Nuclear Models:- Liquid Drop Model, Mass formula, Shell Model, Types of Nuclear reactions, laws of conservation, Q-value of reactions, Interaction of Energetic particles with matter, Ionization chamber, GM Counter, Cloud Chambers, Fundamental Interactions, Classification of Elementary Particles, Particles and Antiparticles, Baryons, Hyperons, Leptons, and Mesons, Elementary Particle Quantum Numbers: Baryon Number, Lepton Number, Strangeness, Electric Charge, Hypercharge and Isospin, Introductory idea of discovery of Higg's Boson.
B.Sc. Third year	SOLID STATE PHYSICS, SOLID STATE DEVICES AND ELECTRONICS	CO1	Student are understand the concept of Amorphous and crystalline solids, Elements of symmetry, seven crystal system, Cubic lattices, Crystal planes, Miller Indices, Laue's equation for X-ray diffraction, Bragg's Law, Bonding in solids, classification. Cohesive energy of solid, Madelung constant, evaluation of Parameters, Specific heat of solids, classical theory (Dulong-Petit's law), Einstein and Debye theories, Vibrational modes of one dimensional monoatomic lattice, Dispersion relation, Brillouin Zone.
		CO2	Student are understand the concept of Free electron model of a metal, Solution of one dimensional Schrödinger equation in a constant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronig-Penny model without mathematical details), Difference between Metals, Insulator and Semiconductors, Hall effect, Dia, Para and Ferromagnetism, Langevin's theory of dia and para-magnetism, Curie- Weiss's Law, Qualitative description of Ferromagnetism (Magnetic domains), B-H curve and Hysteresis loss.
		CO3	Student are understand the concept of Intrinsic and extrinsic semiconductors, Concept of Fermi level, Generation and recombination of electron hole pairs in semiconductors, Mobility of electrons and holes, drift and diffusion currents, p-n junction diode, depletion width and potential barrier, junction capacitance, I-V characteristics, Tunnel diode, Zener diode, Light emitting diode, solar cell, Bipolar transistors, pnp and npn transistors, characteristics of transistors, different configurations, current amplification factor, FET and MOSFET Characteristics.
		CO4	Student are understand the concept of Half and full wave rectifier, rectifier efficiency ripple factor, Bridge rectifier, Filters, Inductor filter, L and π section filters, Zener diode, regulated power supply using zener diode, Applications of transistors, Bipolar Transistor as amplifier, h-parameter, h-parameter equivalent circuit, Transistor as power amplifier, Transistor as oscillator, principle of an oscillator and Bark Hausen's condition, requirements of an oscillator, Wein-Bridge oscillator and Hartley oscillator.
		CO5	Student are understand the concept of Digital Circuits: Difference between Analog and Digital Circuits, Binary Numbers, Decimal to Binary and Binary to Decimal Conversion, AND, OR and NOT Gates (Realization using Diodes and Transistor), NAND and NOR Gates as Universal Gates, XOR and XNOR Gate, De Morgan's Theorems, Boolean Laws, Simplification of Logic Circuit using Boolean Algebra, Digital to Analog Converter, Analog to Digital Converter.

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Department of Economics

B.A. Economics Program Outcomes

After successful completion of the course the students would be able to :

1. Understand the key concept of economics, theories and models.
2. Comprehend current perspectives and issue in major areas of the Indian economy and World economy.
3. Have a comprehensive knowledge of the socio-economic issues and make a critical appraisal of policy measures addressing their effectiveness.
4. Understand the relevance and application of economic theories to contemporary economic issues
5. Prepare for advanced studies leading to M. Phil. and Ph.D. in economics.
6. Equip themselves to be trained quality teachers, researches and policy makers.

CLASS	SUBJECT	OUTCOME
B.A. PART- I	**Micro Economics**	Upon successful completion of this paper the students will be able to: 1. Factors affecting consumer demand. 2. Production and cost matrix in output determination. 3. Various market forms and determination of prices in these markets. 4. How factor prices are determined. 5. Factors of welfare as conceptualized by economist.
	Indian Economy	Upon successful completion of this paper the students will be able to: 1. How Indian economy is changing toward a market based economy. 2. What are basic features of Indian Economy 3. Planning in India and economic reform introduced and rationale behind reform. 4. Role of Industry and various policy decisions to Induce Industrial revolution in India. 5. Importance of foreign sector and rationale behind export promotion schemes.
B.A. PART- II	**Macro Economics**	Upon successful completion of this paper the students will be able to:

		1. National income and understand how it is calculated. 2. Factors responsible for employment determination. 3. Consumption and Investment and their importance in national Income determination. 4. Trade cycles and various factors responsible for trade cycle. 5. Exprot- Import and its related concepts. 6. International institutions for trade and Economics
	Money banking & public finance	Upon successful completion of this paper the students will be able to: 1. How value of money changes. 2. Inflation and measures to control Inflation. 3. Banks, their role in economy and central Banking System. 4. Sources of various revenues to state. 5. Public debt and economics effects.
B.A. PART- III	**Developmental and Environmental Economics**	Upon successful completion of this paper the students will be able to: 1. Economic well being of various nations; poverty and emerging trends to measure poverty and deprivation. 2. Population and Economy linkage, various perspective developments. 3. Environment, importance of study of Environment Economy and sustainable development. 4. Various socio- economic issues affecting mankind.
	Statistical Methods	Upon successful completion of this paper the students will be able to: 1. Statistics, data collection 2. Measurement of representative values. 3. Easement of various representative values. 4. Inter-relationship between social and economic variables. 5. Construction of Index numbers and Measurement of trend.

INDIRA GANDHI GOVT. COLLEGE PANDARIYA
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Department of Geography

(PROGRAM OUTCOME) of the Course B.A.-1st Geography
PART- I
Paper - I
PHYSICAL GEOGRAPHY

Co 1. The students will be familiar with the earth's interior.

Co 2. Develop an idea about earth movements and the related topography.

Co 3. Acquire knowledge about different types of rock and their origin. Influence of the rocks on-land form and topography.

Co 4. Getting Familiar with the concept of hydrology.

Co 5. Understanding the processes of erosion, deposition and resulting landforms.

Co 6. Understanding the concept of atmosphere, climate etc.

Paper - II
Human geography

Co 1. Students will learn about the human geography.

Co 2. Student known about the population growth & their causes and effect.

Co 3. Students will learn about population races & tribal population.

Co 4. Getting Familiar with the Trend of Urbanization & regional pattern.

Co 5. Understanding the concept of global warming , climate change & deforestation.

Paper III

C0 1- They will know about scale and its types .

C0 2- They will be familiar to methods of relief presentation.

C0 3-They will learn about various types of digram.

C0 4-They will know Statistical method and mean, mode, median.

C0 5. They will study about chain and tape survey.

Program Outcome of the course B.A. 2ND Geography

PAPER 1

Economic and resources Geography

CO 1 - The student will be aware of the scope and contents of Geography.

CO 2 -Student will be learn about natural resources.

CO 3 -Understands the concept of Hydroelectricity, principle crop.

CO 4 -Get Definition and exposure of power resources, coal, petroleum, and water.

CO 5 -Discussion on the factors behind the localization of industries with special reference to iron, steel and textiles industries.

CO 6 -STUDENT WILL LEARN CONSERVATION OF RESOURCES.

CO 7 -Student will learn about means of transport.

PAPER 2

CO 1 -The module focuses on the regional geography of India-Physical relief, drainage system, climate, soil, natural vegetation.

CO 2 -It also focuses on agriculture, power resources and natural resources, industries of india as well.

CO 3 -Familiarizing the students with different concept of population.

Paper-3

CO 1- To introduce to them about Dot Map, Chropleth, Isopleth Map.

CO 2- To Learn about map projection & Interpretation of weather maps.

CO 3- They will be introduced to Prismatic compass survey& Statistical Method.

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Program Outcome of the course B.A. Final Geography

Paper-1

CO 1- Will be learning basics of Remote sensing, its definition, history and scope, types.

CO 2- They will exposed to GIS , its scope, types and imporatance.

CO 3- They get information of Satellite image and related topics.

CO 4- They study about Visual and digital image processing.

CO 5- They will introduce to Remote sensing platform its types, scope and function.

Paper-2

CO 1 -The module focuses on the geography of Chhattisgarh - Physical relief, drainage system, climate, soil, natural vegetation.

CO 2 -It also focuses on agriculture, power resources and natural resources, industries of Chhattisgarh as well.

CO 3 -Familiarizing the students with different concept of population.

CO 4- They get information about Tribal Population.

Paper-3

CO 1-They will study these topics Graphical Representation-Band Graph, Climograph, square root, cube root.

CO 2-Students will be Exposed to Topographical Sheets its classification and numbering system.

CO 3- They get information of Satellite imageries by describing the marginal information.

CO 4- They will study Surveying-Plan table survey etc.

CO 5-They will be familiar about Field Work and Field report.

INDIRA GANDHI GOVT. COLLEGE, PANDARIA

DISTT.- KABIRDHAM

DEPARTMENT- POLITICAL SCIENCE

PROGRAM OUTCOMES

PO1. To put in place structure and contents to make it an integrated and interdisciplinary program with flexibility and choice.

PO2. To reflect a general understanding of the concepts and principles of selected areas of the study thus providing students an opportunity to decide the specialization fields for making professional choices.

PO3. To augment the ability to describe and compare the roles, impacts and ethical implications of ideas, texts, social movements and contemporary situations.

PO4. Acquire analytical skills and develop a critical understanding of social, political economic and cultural processes, to present materials and ideas effectively on order to connect between the local, regional and global.

PO5. To integrate the treatment of topics by interlinking knowledge, skills, values and attitudes to action.

PO6. To provide an arena for reflective thinking and concern for the common good and application of social values.

PO7. Produce graduates with a foundation in professional ethics who will actively seek to positively impact their profession, community, and society.

PROGRAMSPECIFIC OUTCOMES

PSO1: The Bachelor of Arts in Political Science prepares graduate to understand fundamental concepts in

the discipline of Political Science.

PSO2: Understanding of how political institutions, processes, laws, and ideas combine to influence policy and political outcomes.

PSO3: Understand and explain political theories and political systems in different parts of world.

PSO4: Understand the political system of India including the structure and relationship between different branches of government.

PSO5: Understand National and International political matters.

PSO6: Graduates can have many opportunities for careers in Psephology, Political Content Writer, Academician, Public Administrator, PR Executive Public relations.

COURSE OUTCOME:-

PO-C1 :Political Theory

- Students got ability introduces Political Theory as a distinctive area of inquiry that isintegral to the study of politics.
- Students got ability to highlights contemporary normative debates and place them in ahistorical perspective.
- Students enable to projects the global and interdisciplinary orientation of PoliticalTheory. It also emphasizes the interplay of theory and practice in the political process.

PO-C2 : Public Administration

- Student enable to understand important concepts, approaches and theories of publicadministration

- Student enables to equip students with understanding of the latest developments in thefield of Public Administration.

- Student enables to understand and analyse broad transformations in the study of publicadministration in the course of changes in socio-economic and political life.

PO-C3 :Political Institutions in India

- Students enable to introduce the leading institutions of the Indian political system and tothe changing nature of these institutions. Apart from explaining the structure andfunctions of the main institutions.

- Student enable to understanding the institutional balance of power as discussed in the

Indian constitution and as developed during the functioning of Indian democracy over the past decades.

PO-O1 :Political Ideologies

- Student enables to understand the difference between ideology and thought as well as between theory and ideology.

- Students enable to understand the relationship between ideas and politics.

- Student enables to understand the core doctrines of each of the ideologies and to make sense of politics through different ideological perspectives.

PO-C4 : Public policy

- Student enables to understand basic concepts, theories and process of public policy.

- Student enables to understand policy processes and actors involved in it by studying specific policies.

- Student enables to understand and analyse policy making in practical context.

PO-C5 : Issues in World Politics

- Students enable to apply the theories and used to illustrate how each level of analysis the international system, the state, and the individual- to help in organizing and conceptualizing the issues.

- Student enables to understand the major issues of the twenty first century- security,economics and transnational issues are presented and analysed.

PO-C6 :Comparative Politics

The purpose of this course is to acquaint the students with the sub-discipline of

Comparative Politics with the following outcomes.

- Students enable to understand the trajectory of the sub-discipline.

- Student enable to understand the significance of the comparative methodology

- Student enables to understand the dynamics of domestic politics across the countries.

PO-O5 : Constitution in India

- Student enables to study one state in an in-depth manner to understand how the political process evolves at the state level.

- Student enables to do assignments based on field studies. The study is to be done from socio-historical as well as political economy perspectives.

PO-C7: Political Thinking in Modern India

- Student knows the key ideas of political thinking in modern India as it shaped in the colonial context.

- Student enable to understand and decipher the diverse and often contesting ways in which ideas of nationalism, democracy and social transformation were discussed by leading Indian thinkers.

PO-C8: Political Sociology

- Student enables to introduce the overall scope of the sub-discipline of political sociology.
- Student enables to know power of political Sociology.
- Students enable to understand different forms of justifications of power and the role of ideology in this regard.
- They studied as a repository of power in society while class and patriarchy are two instances of how the nature of power is shaped by social factors.

PO - C9: Theory of International Relations

- Students enable to introduces the evolution and important of various theories.
- Students know a brief history of international politics.
- They understanding what are happening in the world and the levels of analysis. Competing theories are presented.

PO-O10: Indian Administration

- Student knows the key dimensions of Indian Administration functioning at different levels.
- Students understand and analyse the administrative reforms introduced recently to make administration people-centric and to what extent that goal has been realized.

PO-C10:Traditions of Political Thought

- Student enables to know major traditions of thought that have shaped political discourse in different parts of the world over the last three millennia.
- Student stresses the great diversity of social contexts and philosophical visions that have informed the ideas of key political thinkers across epochs.
- The chief outcome is Student project the history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.

PO-C11: Political Process in India

- Student knows how to introduce the key issues and details of the political process in post independence India.
- Students enable to understand and analyse Indian politics.
- student understand the expansive meaning of political process as it shapes in the arena of electoral and party politics, in the form of mass mobilizations and as politics of interests.

PO-O14: Party System in India

- Student understands the nature of party system in India.
- Student understands the functioning of main political parties operating in the system.
- Student focused on analytical perspectives on party politics in India.

Department of English

The importance of literary studies is being increasingly recognized in today's world. Literary studies help directly or indirectly in creating career choices; they certainly tap and harness the human potential. The Department of English endeavors to provide the students a firm grounding in English and literary studies in a very congenial atmosphere. English is one of the most popular subjects among undergraduate students who opt for it as their core or elective subject every year. Our students are introduced to all the important aspects of literatures written in English.

We extend ourselves to other departments too, with the teaching of English and Communication skills to students of other departments. Teaching of English for Remedial English classes and for competitive examinations is also undertaken by the Department. We also have a nice stack of useful books at our departmental library and up-to-date smart classrooms available for teaching, presentations, and academic functions. We also have a nice stack of useful books at library and up-to-date smart classrooms available for teaching, presentations, and academic functions. In addition to various competitions and events for the students we try to make our students feel at home, we also indulge them to explore their talents with creative involvements and challenges.

So, our students can learn, communicate, mingle, and excel—all at this department. All in All aim of the English department is to develop Language Skill and to introduce the students to English literature beside above said ,also to cater the need of literary sensibility and perception.

Graduate Course - B.A - English Literature

Graduate Programme Outcome

1. Disciplinary Knowledge-
   - Ability to identify about different literary genres , periods and movements.
   - Ability to read texts closely paying attention to themes , historical contexts , linguistic and stylistic variations
   - Ability to understand the world through literature at local , national and international level.
2. Communication Skills
   - Ability to enhance the four language skills- **speaking, writing, listening and reading.**
   - Ability to speak and write in standard academic English.
3. Critical Thinking
   - Ability to analyze and critically appreciate the texts.
   - Ability to understand each age and the writers associated with it
4. Problem Solving
   - . Ability to understand other text with the domain knowledge skills.
   - Ability to understand the social , cultural and economic aspect of other texts.
5. Analytical Reasoning
   - Ability to examine and evaluate merits and demerits in a text.
   - Ability to use critical theories to explain one's argument.
6. Research – Related Skills
   - Ability to enhance creative skills by reading the texts.
7. Cooperation and Teamwork
   - Ability to actively participate in class discussion.
   - Ability to complete assignment in stipulated time period.
8. Scientific Reasoning
   - Ability to think logically and rationally.
   - Ability to connect literature to other disciplines.
9. Reflective Thinking
   - Ability to understand the role of literature in everyday life
   - Ability to transfer their learning to other situation.
10. Self – Directed Learning
    - Ability to choose appropriate learning strategies and evaluate learning outcomes.
    - Ability to carry out individual research and frame out their interpretation and solutions.
11. Information and Digital Literacy
    - Ability to use digital devices and internet
    - Ability to use digital resources for in-depth knowledge.
12. Multicultural Competence

- Ability to know about the various genres locally and globally.
- Ability to acquaint with different cultures and tradition.

13. Moral and Ethical Awareness/ Reasoning
    - Ability to acknowledge ethical values and to do the right thing.
    - Ability to form ideology to define correct behavior.
14. Leadership Readiness
    - Ability to execute a plan and take initiatives in analyzing literary texts.
    - Ability to challenge and inspire people to look above and beyond their comfort zones.
15. Life- long Learning
    - Ability to transform the learning concepts into practice.
    - Ability to understand different genres of literature and authors .

Programme Outcome

The principle aim of B.A English Literature program should be-

PO 1.Critical Thinking

- Students should be familiar with different genres of literature and should be able to identify, analyze, interpret and describe the critical ideas ,values and themes that appear in the literary text.

PO 2. Effective Communication

- Students should develop good communication skill to understand the artistry and utility of the English language through the study of literature and other contemporary forms of culture.

PO 3. Social Interaction

- Create opportunities to practice effective social skills both individually and in groups. Graduates of literature learn to do research related to social skills and studies how skills are learned by an individual through changes in attitude, thinking and behavior.

PO 4. Ethical Standard

- Students should be able to use the historical and literary contexts and foster relevant ideas and values in the society.

PO 5. Leadership readiness

- Enhancement of leadership qualities, be a team player, voice out opinions and accept differences.

PO 6. Life long Experience

- By the end ofthis course, students learn to lead a life that is valuable to others and isable to appreciate one's own worth by going through various challenges.

***Programme Specific Outcomes* Programme- B A (English Literature)**

On completion of BA programme,students will attain:-

• PSO1. Developing reading, writing , speaking and listening skills.
• PSO 2. Creating an interest in literature.
• PSO 3. Understanding various trends in literature.
• PSO 4.Motivation for creative writing.
• PSO 5.Developing the critical attitude about literary studies.
• PSO 6. Socially responsible.
• PSO 7. Developing broad outlook and openness to different perspectives.
• PSO 8.Graduates should develop a high regard for ethics and the environment
• PSO 9.Through advocacy and innovation students are able to lead change for a sustainable future.
• PSO 10. Recognize various avenues open to graduates in various fields.

Course Outcome

B.A English Literature as one subject.

Bachelor of Arts in English literature provides a clear understandingabout the art and study of English literature. This course helps an individual to develop thinking skills and makes them more sensitive.

B A – Part I

Paper –I – Literature in English – 1550 – 1750(Paper Code -0105)

- CO 1: To introduce students to different ages , movement andliterary terms.
- CO 2: To make students aware of different kinds of poetry and prosewritings.
- CO 3: To introduce sonnet ofShakespeare, Milton, John Donne, Alexander Pope and essays of Bacon, Addisonand Steele.
- CO 4: To display a workingknowledge of the novel as a literary genre. - Jonathan Swift –The Battle ofBooks
- CO 5: To give introduction tobeginning of Drama and discuss the distinctive features of Shakespearean drama– The Merchant of Venice.

Paper –II – Literature in English – 1750 – 1900(Paper Code -0106)

- CO 1: To acquaint studentswith the distinctive features of Transitional Age and the poets and poetry –Blake, Wordsworth and Coleridge
- CO 2: To introduce Romantic poetry and the poets – Shelley andKeats
- CO 3: To make students awareof the characteristic features of Victorian poetry and poets – Tennyson andBrowning
- CO 4: To discuss the prose writers ofVictorian Age and essays of the writers – Charles lamb and Hazlitt
- CO 5: To identify and describe novelsand novelists of romantic and Victorian age – Jane Austen and Charles Dickens

B A – Part II

Paper – I–Modern English Literature (Paper Code -0175)

- CO 1: To introduce the characteristic features of Modern poetry andpoets – W. B .Yeats and T.S. Eliot
- CO 2: To discuss distinctive featuresof Modern Prose and essays of the writers-Bertrand Russell and Oscar Wilde
- CO 3: To discuss the features of modern drama and the play - G.BShaw - Pygmalion
- CO 4: To display a working knowledge ofthe novel as a literary genre and discuss the novel of Rudyard Kipling – Kim
- CO 5: To analyze short story as aliterary genre with reference to the story of Katherine Mansfield – A Cup ofTea

Paper –II –Modern English Literature (Paper Code-0176)

- CO 1: To introduce the characteristicfeatures of Modern poetry and War poets – *Sasson, Owen, Hughes and Auden*
- CO 2: To discuss distinctive features of Modern Prose and essays ofthe writers-*Lynd and Belloc*
- CO 3: To discuss the features of modern drama and the play - *John Galsworthy - Strife* and *J. M. Synge – Riders to the Sea*
- CO 4: To display a working knowledge of the novel as a literary genre and discuss the novel of *William Golding – Lordof the flies*
- CO 5: To identify the literary terms with reference to the different genres of literature.

B A –Part III

Paper I –Indian Writing in English (Paper Code – 0235)

- CO 1: To introduce the social, culturaland economic background to Indian Writing in English and discuss about Indian Renaissance.

- CO 2: To discuss distinctive features of Indo - Anglian poetry and the poets – *Toru Dutt, Tagore, Kamala Das, Daruwala, and Shiv. k. Kumar.*
- CO3: To discuss the features of prose writing in Indo - *Anglian Literature- Nirad. C. Chaudhuri–My Birth Place and Dr. S.Radhakrishnan – The Call of the Suffering*
- CO 4: To explore the growth of IndianDrama with reference to *Girish Karnad's –Hayavadana.*
- CO 5: To trace the development of Indian Novels and analyze *R. K.Narayan's – The Guide.*

Paper II –American Literature (Paper Code – 0236)

- CO 1: To introduce the social, culturaland economic background to *American Literature and discuss about American Renaissance.*
- CO 2: To discuss distinctive featuresof American poetry and the poets – *Walt Whitman, Sandberg, Dickinson and Cummings.*
- CO 3: To discuss the featuresof prose writing in American Literature- *William Faulkner – Nobel Award Acceptance Speech, Carlos –In the American Grain and Whitman's – Preface to Leaves of Grass.*
- CO 4: To explore the growth of American Drama with reference to *Miller's – All my Sons and O'Neil's – The Hairy Ape.*
- CO 5: To trace the developmentof American Fiction and analyze *Hemingway's – A Farewell to Arms andFaulkner – The Sound and the Fury.*

INDIRA GANDHI GOVT. COLLEGE PANDARIA
DISTT. – KABIRDHAM (C.G.)
DEPARTMENT OF HINDI

PROGRAMME OUTCOME ;-

- The BA program of Hindi department makes students aware of the latest trends of Hindi literature from primitive Hindi literature to modern Hindi literature.
- Through this course, students will be able to strengthen their heart, mind and intellect by becoming self-sufficient and help in the development of the country.
- Scientific approach, logical intelligence should be developed in the students, so that they can become enlightened citizens of the country.
- The main purpose of this program is to provide students with the knowledge of various poetic streams related to Hindi language literature, such as early poetry, devotional poetry, ritual poetry and modern era poetry and the works of poets of this era.
- The Students Knowledge about relation between the socio cultural condition of a society and the short stories though the guest lecture's organized on hindi kahani ki vikash yatra, where the history of development of hindi short stories was discussed in with the socio cultural impact registered in hindi stories in different period.
- This course has been constituted for the purpose of becoming an ideal citizen of this country.

PRINCIPAL
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INDIRA GANDHI GOVT. COLLEGE PANDARIA
DISTT. – KABIRDHAM (C.G.)
DEPARTMENT OF HINDI

PROGRAMME SPECIFIC OUTCOME ;-

The B. A HINDI program will make it possible to develop the following qualities and skills in the students.

- 1) Students will become sensitive, valuable by understanding the expressions of poetry.

- 2) Will be familiar with the rich history of Hindi literature & Hindi language .

-3) Students will be able to acquire literary words.

-4) Students will be prepared for competitive examinations.

-5) The writing power of the students will increase.

-6) Will be able to become a good speaker.

-7) Through the power of your imagination, you will be able to become a literary producer in the direction of becoming a good poet or writer.

-8) By acquiring the knowledge of the national language, efforts will be made to promote the national language from a scientific point of view in the quality of the national language, official language.

-9) The special purpose of this program is to awaken the dormant powers of the students by increasing their self-confidence.

-10) The creative power will develop in the students and they will become proficient in arts like singing, playing, acting, music.

-11) Students will be develop Knowledge of Hindi linguistics and grammer .

PRINCIPAL
INDIRA GANDHI GOVT. COLLEGE
PANDARIA, DISTT. KABIRDHAM (C.G.)

COURCE OUTCAME FOR B.A. HINDI LITRETURE :-

1ST YEAR	
B.A.I PAPER FIRST – PRACHIN HINDI KAVYA	1. To be aware of the devotional and romantic sentiments of great saints and ritual poets like Kabir, Jaysi, Sur, Tulsi, Dharmdas, Ghananand,Vidhayapati,Rahim,Raskhan. 2. Understanding the role played by the poets of Bhakti cult in literature Society. 3. Discribing the Ram bhakti, Krishan bhakti and Gyanmargi, premmargi poetry of Tulsidas,Surdas,Kabirdas and Malikmohmmad Jaysi along with the Philosphy. 4. This Course aims to know the students about the old poetry . 5. Students also know about drutpath poets.
B.A.I PAPER SECOND – HINDI KATHA SAHITYA	1.The students know about the novel and how to apply it in their life. 2. To understand the literary creation of the novel Samrat Premchand, the storyteller, Prasad, Renu, Sahni ect. 3. The students also read some story and learn the principal of their characters. 4. Understanding the vision of premchand about middile class and his concern for strenthing the freedom movement in india through Gaban novel. 5. Develop interest in literature 6. Students also know about drutpath writers.

PRINCIPAL
INDIRA GANDHI GOVT. COLLEGE
PANDARIA, DISTT. KABIRDHAM (C.G.)

2nd YEAR	
B.A.II PAPER FIRST – ARVACHIN HINDI KAVYA	1. This course aims to know the students about the modern poetry. 2. To understand the feelings contained in the poem of the major poets of the modern period. 3. understanding the role played by the poets of modern literature and socity. 4. students know view of prayogvadi poetries. 5. The objective of the course is to study in chhayawad about the poet Sumitranandan pant, Maithili sharan Gupt, Makhan lal chaturvedi, Suryakant tripathi nirala. 6. Students also know about drutpath poets.
B.A.II PAPER SECOND – HINDI NIBANDHA TATHA GADYA VIDHAYE	1. To understand the literary creation of the novel samrat premchan, Dramatist, Bhartendu Harishchandra and other story writers assayists, one play act writers. 2. This paper also help the students know about the essay, one play act , Drama. 3. The character of Drama and one play act has also helped the students. 4. Students read the some Drama,one play act and know the historical information about the drama and one play act. 5. Students are also inspired the view of essay writer as like Ramchandra shukla, Vidhyaniwas mishra, Babu gulab rai & Harishankar parsai. 6. Students also know about drutpath writers.

PRINCIPAL
INDIRA GANDHI GOVT. COLLEGE
TOHANA, DISTT. FATEHABAD (H.R.)

3rd YEAR	
B.A.III PAPER FIRST – JANPDIYA BHASHA SAHITYA (CHHATTISGARHI)	1. Understanding the culture of Chhattisgarh through proverbs (hana) and gajal to experience the hardwork of the farmer. 2. Students know the Social Picture of chhattisgarhi community of old period along with philosophical view. 3. Students know grammer of Chhattisgarh. 4. Students also know about Chhattisgarh poets and their literature Dharmdas, Dr. Vinay kumar pathak, Satyabhama aadil, Lakhan lal gupt ect. 5. Student also know about druthpath poet & writers. 6. Folk Culture and Folk literature of Chhattisgarhi give opportunity to learness in many ways.
B.A.III PAPER SECOND – HINDI BHASHA SAHITYA KA ITIHAS TATHA KAVYANG VIVECHAN	1. Understanding the origin and development of hindi getting knowledge of its various forms vocabulary and ras, chhand, alankar. 2. Understanding the history of hindi literature. 3. Know the development periods of hindi literature – Aadikal, Purvmadhyakal, uttarmadhaykal, and Aadhuniklal. 4. Know the nature and purpose of hindi poetry.

PRINCIPAL

INDIRA GANDHI GOVT. COLLEGE PANDARIA
DISTT. – KABIRDHAM (C.G.)
Department of HINDI
Programme Specific Outcome : M.A. HINDI

Programme Specific Outcomes :

- To prepare and motivate students for research studies in Hindi language and literature and related fields.
- To provide advanced knowledge of different theories of Hindi language and literature and empowering the students to pursue higher degrees/research at reputed academic institutions.
- To nurture analytical qualities or skills, thinking power, creativity through assignments & project works.
- To assist students in preparing (personal guidance, books) for competitive exams. e.g. NET/SET, Staff Selection Commission, Banking sector/Govt. of India undertakings (Rajbhasha Sahayak or Hindi Officer/ Hindi Translator), School Service Commission etc.
- To encourage the students for original thinking/thought /decision making. To imbibe the effective communication in both mediums of expression (oral and writing)

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INDIRA GANDHI GOVT. COLLEGE PANDARIA
DISTT. – KABIRDHAM (C.G.)
Department of HINDI
Programme Outcomes : M.A. HINDI

Programme Outcomes :

- To prepare the students with skills to analyze the concept and different theories of Hindi literature and language.
- To prepare the students for pursuing research or careers in Hindi language and literature and it's allied fields.
- Imbibe the effective communication in both mediums of expression (oral and writing).
- Continue to acquire relevant knowledge and skills appropriate to professional activities.
- Create awareness to become an enlightened citizen with commitment to deliver one's responsibilities within the scope of bestowed rights and privileges.

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INDIRA GANDHI GOVT. COLLEGE PANDARIA
DISTT. – KABIRDHAM (C.G.)
Department of HINDI
Course Outcome : M.A. HINDI

SEMESTER -I	
Course Name	**Course Outcome**
Prashan patra –I Hindi Sahitya ka Itihas (Aadikal evam Purvmadhaydkal)	***Knowledge gained:*** • Concept of History of Hindi Literature of beginning period (Aadikaal) and medieval period (Purvmadhyakaal) ***Skill gained:*** • Ability to understand the development of Hindi language and literature of Aadikal & Purvmadhyakaal. ***Competency developed:*** • Understanding of History of Hindi literature and language of Aadikaal and Purvmadhyakaal. • Differentiation and departure points of Hindi literature and language of Aadikaal and Purvmadhyakaal. • Time framing ability of Aadikaleen and Purvmadhyakaleen Hindi Literature.
Prashan patra –I I Prachin Evam Madhyakaleen Kavya	***Knowledge gained:*** • Concept of text based Prachin & Madhyakaleen Hindi Literature. ***Skill gained:*** • Ability to understand the development of Prachin & Madhyakaleen Hindi Literature ***Competency developed:*** • Understanding of Hindi literature and language of Aadikaal and Madhyakaal. • Differentiation and departure points of Hindi literature and language of Aadikaal and Madhyakaal. • Ability to think about Hindi literature and language of Aadikaal and Madhyakaal.
Prashan patra –III Aadhunik Kavya-1	***Knowledge gained:*** • Concept of Modern Hindi Poetry (Aadhunik Hindi Kavya). ***Skill gained:*** • Ability to understand the development of Modern Hindi Poetry (Aadhunik Hindi Kavya) by textual study. ***Competency developed:*** • Understanding of development of Modern Hindi Poetry. • Differentiation and departure points of Modern Hindi Poetry. • Ability to think about Modern Hindi Poetry (Aadhunik Hindi Kavya).
Prashan patra –IV Nataak, Ekanki evam Charitatamk Kriti	***Knowledge gained:*** • Concept of (text based) Hindi Drama & short stories of modern era (Aadhunikkaal). ***Skill gained:*** • Ability to understand the development of Hindi Drama, One Play act and short stories by textual study. ***Competency developed:*** • Understanding of development of Hindi novels and short stories. • Differentiation and departure points of Hindi Drama One Play act and short stories. • Ability to think about Hindi Drama One Play act and short stories.

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Department of HINDI
Course Outcome : M.A. HINDI

SEMESTER -II	
Course Name	**Course Outcome**
Prashan patra –V Uttar Madhaykal evam Aadhunik kal	***Knowledge gained:*** • Concept of History of Hindi Literature of modern era (Aadhunikkaal). ***Skill gained:*** • Ability to understand the development to Hindi language and literature of modern era (Aadhunikkaal). ***Competency developed:*** • Understanding of History of Hindi literature of modern era (Aadhunikkaal). • Differentiation and departure points of modern Hindi literature. • Time framing ability of modern Hindi Literature
Prashan patra –VI Madhyakaleen Kavya	***Knowledge gained:*** • Concept of text based Madhyakaleen Hindi Literature. ***Skill gained:*** • Ability to understand the development of Madhyakaleen Hindi Literature ***Competency developed:*** • Understanding of Hindi literature and language of Aadikaal and Madhyakaal. • Differentiation and departure points of Hindi literature and language ofAadikaal and Madhyakaal. • Ability to think about Hindi literature and language of Aadikaal and Madhyakaal.
Prashan patra –VII Aadhunik Kavya-2	***Knowledge gained:*** • Concept of Modern Hindi Poetry (Aadhunik Hindi Kavya). ***Skill gained:*** • Ability to understand the development of Modern Hindi Poetry (Aadhunik• Hindi Kavya) by textual study. ***Competency developed:*** • Understanding of development of Modern Hindi Poetry. • Differentiation and departure points of Modern Hindi Poetry. • Ability to think about Modern Hindi Poetry (Aadhunik Hindi Kavya).
Prashan patra –VIII Upanyaas, Nibandh Evam Kahani	***Knowledge gained:*** • Concept of (text based) Hindi Drama & short stories of modern era (Aadhunikkaal). ***Skill gained:*** • Ability to understand the development of Hindi Drama, One Play act and short stories by textual study. ***Competency developed:*** • Understanding of development of Hindi novels and short stories. • Differentiation and departure points of Hindi Drama One Play act and short stories. • Ability to think about Hindi Drama One Play act and short stories.

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Department of HINDI
Course Outcome : M.A. HINDI

SEMESTER -III	
Course Name	**Course Outcome**
Prashan patra –I Sahitay ke Sidhant Tatha Aalochna Shashtra	***Knowledge gained:*** • Concept of Indian & Western poetics ***Skill gained:*** • Ability to understand the development of Indian & Western poetics. ***Competency developed:*** • Understanding of the development of Indian & Western poetics. • Differentiation and departure points of Indian & Western poetics. • Ability to think about the development of Indian & Western poetics.
Prashan patra –II Bhasha Vigyan	***Knowledge gained:*** • Concept of Hindi language & Linguistics. ***Skill gained:*** • Ability to understand the development of Hindi language & Linguistics. ***Competency developed:*** • Understanding of Hindi language & Linguistics. • Differentiation and departure points of Hindi language & Linguistics. • Ability to think about Hindi language & Linguistics.
Prashan patra –III Kamkaji Hindi evam Patrakarita	***Knowledge gained:*** • Concept of Hindi language & Hindi News Paper. ***Skill gained:*** • Ability to understand the development of Hindi language & Hindi News Paper. ***Competency developed:*** • Understanding of Hindi language & Linguistics. • Differentiation and departure points of Hindi language & Hindi News Paper. • Ability to think about Hindi language, Linguistics & Hindi News Paper.
Prashan patra –IV Bharatiya Sahitya	***Knowledge gained:*** • Concept of Bharatiya Sahitya. ***Skill gained:*** • Ability to understand the development of Indian literature by different theories & textual study. ***Competency developed:*** • Understanding of development of Indian literature & comparative literature. • Differentiation and departure points of Indian literature. • Ability to think about Indian literature & translation.

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DISTT. – KABIRDHAM (C.G.)
Department of HINDI
Course Outcome : M.A. HINDI

SEMESTER -IV	
Course Name	**Course Outcome**
Prashan patra –V Hindi Aalochna Tatha Samiksha	***Knowledge gained:*** • Concept of Indian Review Hindi (Aalochna Tatha Samiksha). ***Skill gained:*** • Ability to understand the development of Indian Aalochana & Samiksha. ***Competency developed:*** • Understanding of the development of Indian Aalochana & Samiksha. • Differentiation and departure points of Indian Aalochana & Samiksha. • Ability to think about the development of Indian Aalochana & Samiksha.
Prashan patra –VI Hindi Bhasha	***knowledge gained:*** • Concept of Hindi language & Linguistics. ***Skill gained:*** • Ability to understand the development of Hindi language & Linguistics. ***Competency developed:*** • Understanding of Hindi language & Linguistics. • Differentiation and departure points of Hindi language & Linguistics. • Ability to think about Hindi language & Linguistics.
Prashan patra –VII Media Lekhan evam Anuvad	***Knowledge gained:*** • Concept of Hindi language, Media language & Translations. ***Skill gained:*** • Ability to understand the development of Hindi language, Media language & Translations. ***Competency developed:*** • Understanding of Hindi language Media language & Translations • Differentiation and departure points of Hindi language & Linguistics. • Ability to think about Hindi language Media language & Translations.
Prashan patra –VIII Janpadiy Bhasha aur Sahitya	***Knowledge gained:*** • Concept of 'Janpadiy Bhasha aur Sahitya.' ***Skill gained:*** • Ability to understand the purpose of Janpadiy Bhasha aur Sahitya.' ***Competency developed:*** • Understanding of 'Janpadiy Bhasha aur Sahitya.' • Application of 'Janpadiy Bhasha aur Sahitya.' • Ability to think about 'Janpadiy Bhasha aur Sahitya.'

PRINCIPAL
INDIRA GANDHI GOVT. COLLEGE
PANDARIA, DISTT. KABIRDHAM (C.G.)

Indira Gandhi Gov. College Pandaria

Dist :- Kabirdham (C.G)

Department of Sociology

B.A.– Three years Undergraduate programme

Programme outcomes (PO) : expected to achieve following outcome :-

PO1. The undergraduate programme in Sociology is aimed at providing the students necessary inputs so as to set forth the task of bringing about new and innovative ideas/concepts.

PO2. The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.

PO3. The students will be able to increase communication effectively through speaking, reading, writing and listening clearly.

PO4. The students will be able to interact socially and stimulate views, reconcile disagreements and help reach consensual conclusions.

PO5. The students will be able to ethically recognize different value systems, understand the moral dimensions of individual decisions and accept responsibility for them.

PO6. The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.

Programme Specific Outcomes (PSO)

PSO1. The students after the completion of this programme will be able to understand and apply the knowledge of Concept of Sociology.

PSO2. The students after the completion of this programme will be able to understand and apply the knowledge of Social Research Methods.

PSO3. The students after the completion of this programme will be able to understand and apply the knowledge of Tribal Society.

PSO4. The students after the completion of this programme will be able to understand about Crime and Society.

PSO5. The students after the completion of this programme will be able to understand about Social Problems of India.

PSO6. The students after the completion of this programme will be able to understand and apply the knowledge of Contemporary Indian Society.

PSO7. The students after the completion of this programme will be able to understand and apply the knowledge of Different Social Thoughts.

COURSE OUTCOME :

CLASS	SUBJECT	OUTCOME
B.A. FIRST YEAR	PAPER I - INTRODUCTION TO SOCIOLOGY	CO1. The Students will be able to acquire knowledge about sociology of basic concept like society, community, institution, Association, group etc. CO2. Students will understand the reason for social Institution like marriage, Family and kinship, Culture and society, culture socialization, social control etc. CO3. Students will understand the social stratification and social mobility. CO4. Students will be able to understand basic concept of social change: Evolution, Progress, and development etc., Factors of social change. CO5. Social system and process social system meanings, characteristics and element's
	PAPER II- Contemporary Indian Society	CO1. Students will understand to classical view about Indian society like verna, Asharam , Karma, Dharma and Purusharth and Indian society structure like village, Towns, cities. CO2. Students understand basic institutions of Indian society: Cast System, Joint family, Marriage and Changing dimensions. CO3. Student will understand familial Problems: Dowry, Domestic violence, Diverse, Intra-intergenerational conflicts, Problems of elderly. CO4. Student will understand contemporary social problems: Surrogate motherhood, live-in relationship, regionalism, communalism, corruption, youth unrest.
B.A. SECOND YEAR	PAPER I- Sociology of tribal society	CO1. Students will understand concept and characteristics of tribes, classification of tribal people. CO2. Understand tribes socio-cultural profile: Kinship, marriage, family, religion and belief cultural traditions and will know the tribal communities of Chhattisgarh. CO3. Will learn tribal sensitization: Tribal mobility, Tribal development schemes, various tribal movements. CO4. Understand the problems of tribal people: Poverty, Illiteracy, indebtedness, Agrarian issues, exploitation.
	PAPER II-Crime and Society	CO1. Student will understand about the concept of crime and school of crime. CO2. Will learn about structure of crime- Anomie, criminality and suicide, organized crime, white collar crime and cyber crime . CO3. Will learn social evils and crime: Alcoholism, drug addiction, Dowry, Beggary in Indian society CO4. Student will learn about punishment: meaning, characteristics, objectives and types, major theories of punishment. Co5. Will understand correctional process: role of police and judiciary, jail reforms in India, probation payroll and after care programs.

B.A. THIRD YEAR	PAPER I- Foundations of Sociological Thought	CO1. Students will be able to learn the August Comte's Theories: The law of three stages, Positivism, Hierarchy of Science and Durkheim's Theories: Social solidarity and Suicide. CO2. Karl Marx Theories: Dialectic materialism, Class struggle and surplus value. Max Weber's Theories: Bureaucracy, Authority and the Protestant Ethic and the spirit of Capitalism. CO3. Pareto's Theories Theory: Circulation of elits, Logical and Non-logical action. Spencer's Theories: Social Darwinism, Super-organic evolutions. CO4.Thorstein Veblen's Theories: The theory of Leisure Class, Theory of social Change. R.K. Morton's Theories: Functionalism and reference group. CO5. Mahatma Gandhi's Theories: Ahimsa, Satyagraha and Trusteeship. Radha Kamal Mukherjee's Theory: The concept of Value.
	PAPER II- Methods of Social research	CO1. Students will be able to write on original research paper that locates and synthesize relevant primary and secondary sources. CO2. Students understanding about meaning and signification of social Research, Hypothesis, Scientific method, Qualitative research: Ethnography, Observation, Case study method, Content analysis. CO3. Students will able to learn about Research: Descriptive, Explanatory, Experimental and diagnostic. CO4. Student will learn about Tools and Techniques of social research: Social survey, sampling, questionnaire, interview schedules. CO5. Students will learn about social statistics: Meaning, Importance and Limitations, Graphs, Diagram and Measures of Central Tendency like mean, Median and mode, statistical analysis of correlation. Use of computer in social research.

Indira Gandhi Gov. College Pandaria

Dist :- Kabirdham (C.G)

Department of Sociology

M.A. Sociology (4 Semesters Postgraduate programme)

Programme Outcomes (PO) : Expected to achieve following outcome

PO1. Students would be able to think critically on societal issues and its national & global implications.

PO2. Students would be able to shoulder social and ethical responsibilities in its true form and hence develop into a better citizen.

PO3. Students would be able to perceive social issues both objectively and subjectively.

PO4. Students would be able to develop better social interaction skills for greater exchange of thoughts and ideas.

PO5. The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.

PO6. The students will be able to communicate effectively through speaking, reading, writing and listening clearly in one Indian language and thereby express themselves to the world by connecting with different ideas, books, people, media and technology.

PO7. The students will be able to interact socially and stimulate views, reconcile disagreements and help reach consensual conclusions.

PO8. The students will be able to demonstrate compassionate social concern and act with a cognizant awareness of issues to contribute in civic life by volunteering impartially towards national development and thereby deliver effective citizenship.

PO9. The students will be able to ethically recognize different value systems, understand the moral dimensions of individual decisions and accept responsibility for them.

PO10. The students will be able to recognize the issues of environmental perspectives and appreciate sustainable development for long term environmental sustainability.

PO11. The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.

PO12. The students after completing this course will be able to understand the field work.

PO13. The students after completing this course will be able to understand The preparation of tools interview guide, case study, questionnaires and interview schedules.

PO14. They will able to collect data, classification of data and analyze the data, report writing.

Programme Specific Outcomes (PSO) :-

PSO1.The students after the completion of this programme will be able to contemplate and comprehend Classical Sociological Tradition. Students would be able to understand sociological phenomena of individuals, socio-ethnic structures, socio-cultural institutions and socio-economic inequality.

PSO2.The students after the completion of this programme will be able to contemplate and comprehend Philosophical and Conceptual Foundation of Social Research. Students would be able to effectively communicate and draft sociological concepts and theories associated with real life situations.

PSO3.The students after the completion of this programme will be able to contemplate and comprehend Social Change in India. Students would be able to perform analytical thinking on the basis of survey, census & research of qualitative and quantitative data & information.

PSO4.The students after the completion of this programme will be able to contemplate and comprehend Classical Sociological Thinkers.

PSO5.The students after the completion of this programme will be able to contemplate and comprehend and apply Quantitative Research Techniques in Sociology.

PSO6.The students after the completion of this programme will be able to contemplate and comprehend Sociology of Development.

PSO7.The students after the completion of this programme will be able to contemplate and comprehend Indian Rural Society.

PSO8.The students after the completion of this programme will be able to contemplate and comprehend Classical Sociological Theories.

PSO9.The students after the completion of this programme will be able to contemplate and comprehend Social Movements in India.

PSO10.The students after the completion of this programme will be able to contemplate and comprehend Perspectives of Study to Indian Society.

PSO11.The students after the completion of this programme will be able to contemplate and comprehend Industry and Society in India.

PSO12.The students after the completion of this programme will be able to contemplate and comprehend Criminology.

PSO13.The students after the completion of this programme will be able to contemplate and comprehend Modern Sociological Theories.

PSO14.The students after the completion of this programme will be able to contemplate and comprehend Comparative Sociology.

PSO15.The students after the completion of this programme will be able to contemplate and comprehend Contemporary issues in Industry.

COURSE OUTCOME :

CLASS	SUBJECT	OUTCOME
First Semester	Classical Sociological Tradition	CO1.Students will be able to make sense of modernity by identifying the emergence of sociology as a discipline. CO2.Students will be able to understand critically and comparatively the methodological preferences of the founders of sociology.
	Philosophical and Conceptual Foundation of Research Methodology	CO1.Students will be able to recognize various issues in social research. CO2. Students will be able to undertake research by selectively choosing and formulating a social research problem.
	Social Change in India	CO1.Students will be able to perceive disciplinary & inter-disciplinary ideas about the sociology and social change in India. CO2. Students will be able to recognize the various factors of sociology and social change in India.
	Rural Sociology	CO1. Students will be able to assimilate the theoretical and empirical knowledge of the past and present rural scenario and approach in rural sociology. CO2. Students will be able to identify with the various changes and development in rural sociology.
	Practical-1	CO1.Students will be able to understand about field work & Preparation of tools Interview guide and case study.
Second Semester	Classical Sociological Thinkers	CO1. Students will be able to explain the major themes of Marxian and Weberian perspectives on the social world. CO2. Students will be able to explain the major themes of Thurstein Veblen, Talcott Parsons and Robert K. Merton on the social world.
	Quantitative Research Techniques in Sociology	CO1. Students will be able to assess, interlink, correlate and use the measures of central tendency and measures of variation involved in social research. CO2. Students will be able to understand about sampling, survey, measurement and scaling techniques, statistics in social research.
	Sociology of Development	CO1. Students will be able to understand about perspectives on development and changing conception of human development. CO2. Students will be able to understand about Indian Experience on development, issues and development in contemporary india.
	Indian Rural Society	CO1. Students will be able to understand about tribal society and agrarian society, social and contemporary issues. CO2. Students will be able to understand about peasant movement, naxlite movement in contemporary india.
	Practical-2	Students will be able to understand about field word & preparation of tools :- questionnaire ,interview schedule preparation and tabulation.

CLASS	SUBJECT	OUTCOME
Third Semester	Classical Sociological Theories	CO1. Students will be able to recognize the role of a sociological theory in the application of conceptual frameworks in a social research progress. CO2. Students will be able to comprehend various sociological theories like structuralism and exchange theory.
	Social Movements in India	CO1. Students will be able to understand the nature and types of social movements in India. CO2. Students will be able to comprehend the theoretical perspectives of social movements in India.
	Perspectives of Study to Indian Society	CO1. Students will be able to explain the major methods and concepts used in the systematic study of Indian society, its social classes, its social fabric and its sociological issues.
	Industry and Society in India	CO1. Students will be able to identify the trends of Industrial disputes in Indian society and their impacts on Indian social classes & sociology.
	Criminology	CO1. Students will be able to familiarize with mainstream criminological theories. CO2. Students will be able to apply theories of crime and criminal justice to explain actual and hypothetical scenarios, behaviors and trends.
Fourth Semester	Modern Sociological Theories	CO1. Students will be able to debate on modern sociological theories. CO2. Students will be able to identify the origin and development of modern sociological theories.
	Comparative Sociology	CO1. Students will be able to compare the historical and social context of emergence of sociology. CO2. Students will be able to identify various theoretical concerns in comparative sociology.
	Contemporary issues in Industry	CO1. Students will be able to ascertain the history, objectives and functions of trade unionism in India. CO2. Students will be able to contemplate on Industrialization in the third world countries
	Criminology : correctional administration	CO1. Students will be able to understand about socialization, family values, role of education, ethics. CO2. Students will be able to understand about correctional administration and its problems, victimological perspective, policing and judiciaring.
	Practical/Project report	CO1. The students after completing this course will be able to understand the field work. CO2. The students after completing this course will be able to understand The preparation of tools interview guide, case study, questionnaires and interview schedules. CO3. They will able to collect data, classification of data and analyze the data, report writing.

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DEPARTMENT OF HISTORY

PROGRAMME OUTCOME (PO)

1) After the completion of M.A history scholars will be able to distinguish between primary and secondary sources and identify and evaluate evidence
2) Students will demonstrate in discussion and written work their understanding of different peoples and cultures in past environments and of how those cultures changed over the centuries.
3) They will be able to produce their own historical analysis of documents and develop the ability to think critically and historically when discussing the past
4) The study of history will give them the ability to compare and contrast different processes, modes of thoughts and modes of expression from different historical time periods and in different geographical areas.
5) Students will offer multi-causal explanations of major historical developments based ona contextualized analysis of interrelated political, social, economic, cultural and intellectual processes
6) Students will be able to write an original research paper that locates and synthesize relevant primary and secondary sources and has a clear, coherent and plausible argument, logical structure, proper references.
7) Students will present orally their researcher a summary of another's research in an organized, coherent and compelling fashion.

M.A FIRST SEM

PAPER FIRST

METHODOLOGY OF HISTORY

CO1.Write articles on historical topics ,Writing History and Techniques of historical writing

CO2.Developed their ability to assess critically historical analysis and argument, past and present

CO3. Gained an understanding of the development ofthe academic study of history throughout the world since the later eighteenth century (since the Renaissance for the Venice stream)

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CO4. Gained an awareness of recent and contemporary debates in the theory and practice of historical writing

CO5. Gained insight into current methodologies, theories, and concepts, currently in use within the historical discipline

CO6. Gained insight into how historical arguments have been and are made

CO7. Become aware of historiographical traditions outside the West

CO8. Had the opportunity to think reflexively about the nature of the historical enterprise within society

CO9. IDENTIFY HISTORY AS Scientific Discipline

SECOND PAPER

MODERN WORLD

CO1. Describe rise of modern world

Co2. Classify growth of capitalism

CO3. Classification development of Democracy

CO4. Acquire knowledge about 20th century world

CO5. Identify world maps- Oceanic Explorations, Europe in 1815, important stages of World War, and Important centers of International trade

PAPER THIRD

ANCIENT AND MEDIEVAL CHHATTISGARH

CO1.Classification early Political cultural activities of Chhattisgarh.

CO3.Acquire knowledge about tribal Movement of Chhattisgarh.

CO3.Acquire knowledge about Sharabhapurivansh, Faninagvansh, Kalchurivansh etc.

CO4.Providing information how Chhattisgarh developed in the field of education and society.

PAPER FOURTH (Optional)

WOMEN IN INDIAN HISTORY IN ANCIENT & MEDIEVAL PERIOD

Co1. Ideology of women studies.

Co2.Status of women in ancient history

Co3. Status of women in different religion like – Buddhism, Jainism, islam, sikhism

CO4.status of women in medieval politics and Mauryan, Gupta Rajput period

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M.A SECOND SEM

PAPERER FIRST

HISTORIOGRAPHY

CO1.Produce written work that incorporates consideration of the relevant historiography along with the theory that informs it

CO2. Construct original historical arguments based on primary source material research.

CO3. Demonstrate a superior quality of writing both in terms of mechanics and in developing an argument effectively

CO4. Develop an ability to convey verbally their thesis research and relevant historiography and theory.

PAPER SECOND

CONTEMPARY WORLD

CO1. Describe rise of modern world

Co2. Classify growth of capitalism

CO3. Classification development of Democracy

CO4. Acquire knowledge about 20th century world CONTEMPORARYWORLD

PAPER THIRD

MODERN CHHATTISGARH

CO1. Contribution of Chhattisgarh in national movements.

CO2. Provides information about the labour movement of Chhattisgarh.

CO3. Impact of revolt of 1857 A.D.

CO4. Movement against untouchability .

PAPER FOURTH (Optional)

WOMEN IN MODERN INDIA

CO1. Different stages of women development in India.

CO2. Providing information about different social evils of society.

CO3. Education and women.

CO4. Role of women in handicrafts.

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M.A THIRD SEM

PAPER FIRST

(MODERN INDIA 1757A.D. TO 1857A.D.) POLITICAL ADMISTRATIVE)

CO1. Student will learn about the sources of modern history
CO2. Study of arrival of European in India.
CO3. Student will be know about two mix religion.
CO4. Students understand police, civil service and judicial administration.

PAPERSECOND

(ECONOMIC ; SOCIAL CULTURE 1757 A.D. TO 1857 A.D.)

CO1. Student will understand how rise European commercialism.
CO2. Student learn new revenue system, rural economy status and agriculture problem.
CO3. Student learn urban economy and status of industries.
CO4. Provides information about the social culture system and pre colonial system.

PAPER THIRD

HISTORY OF NATIONAL MOVEMENT

CO1. Student understand our Indian Revolt and ideology nationalism.
CO2. Understands concept of Indian national congress and ideology.
CO3. Student know about the home rule, rowlatt act.
CO4. Provide info. Indian politics, non-cooperation & revolutionary movement

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PAPER FOURTH

INDIAN COSTITUTION AND ADMINISTRATION SYSTEM

CO1. Student understand our Indian constitution.
CO2. Understands Rajya sabha and Lok sabha organization and their power.
CO3. Student know about the emergency provision, supreme court.
CO4. Know our fundamental duties.

M.A FOURTH SEM

PAPER FIRST

MODERN INDIA (1858 A.D. TO 1964 A.D.) POLITICAL ADMINISTRATIVE
CO1.Student understand Ideologies of modern History.
CO2.Student will be able to know how rise of English power in Bengal
CO3. Information about two culture like – Anglo-Awadh, Anglo-Maratha, relations etc.
CO4. Students understand the expansion of British Empire.
CO5. Informs the importance of modern history political & administrative system of modern history.

PAPER SECOND

MODERN INDIA (1858 A.D. TO 1964 A.D.) ECONOMY, SOCIAL , CULTURE
CO1. Information about British business & commercialism
CO2. Student will know about the settlement, new revenue system and new land administration.
CO3. Student will understood concept of industrialization and deindustrialization.
CO4. Student learn internal market, trading and withdrawal of market.
CO5. Information about the drifter movement, new social classes, Indian press.

PAPER THIRD

HISTORY OF INDIAN NATIONAL MOVEMENT 1922 TO1947 A.D
CO1. Understanding of Salient Features of Indian Constitution
CO2. Analyze Indian Economy

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Co3. Identify Challenges within the Nation
CO4. Analyze Democratic Culture in India
CO5. Identify contemporary Indian Maps

PAPER FOURTH

CENTRAL AND STATE ADMINISTRATIVE SYSTEM OF INDIA

CO1. Provides information about Ombudsman.
CO2. Students get information about the official language.
CO4.Knowledge about state and union territories.
CO5. Student will be able to know high court, advocate general and state PSC.
CO6. Understand how works Panchayati raj , servant shahi.
CO7. Student understand Low and order, PSC & Power of district and district magistrate.

PRINCIPAL
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