PROGRAMME OUTCOME (PO), PROGRAMME SPECIFIC OUTCOME (PSO) AND COURSE OUTCOME (CO)

INTERNAL QUALITY ASSURANCE CELL (IQAC)

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PREFACE

A **program outcome (PO)** is a summary of the students' knowledge, abilities, and attitudes at the conclusion of a degree program. POs are more general statements that outline the knowledge and skills that students need to acquire to graduate with a degree. POs handle the general aspects of program graduation as well as the skills and knowledge a graduate will have after completing the program.

Program specific outcomes (PSOs) and course outcomes from core courses are the means by which POs are obtained. Results particular to a domain or specialization are called program-specific outcomes, or PSOs. PSOs describe how specialized a program's core courses are. Course Outcomes are the results that are specific to a given course. Program Specific Outcomes refer to the competencies that graduate students in a particular degree program should possess, whereas Course Outcomes are the information and skills that students get upon completion of the course. It outlines the mental exercises that a course offers.

Course Outcomes (COs) are more focused statements that outline the knowledge and skills that students should possess at the conclusion of each course. The COs are statements that describe the behaviors, abilities, and knowledge that students pick up throughout a particular course in a program. Course-specific statements make up the course outcomes. They address the primary course-related objectives and aid in achieving the program's overall goals. Every course is created with the course outcomes in mind. The way the course outcomes are written allows for actual measurement of them. The institution determines COs after discussing with department heads, teachers, students, and other relevant parties.

The departments are guided in the creation of program outcomes, program-specific results, and course outcomes by the institute's IQAC. The departments map these out in accordance with the university's established curriculum, guiding principles, and goals. After thorough discussion, each department prepares the course outcomes based on the type and extent of the programs and courses they offer. The organization lists COs for every course and POs, PSOs, and all programs. The courses provided throughout all programs at the college are linked to graduate attributes. The design integrates teaching, learning, and evaluation methodologies to appropriately prioritize each of the designated learning activities and the achievement of desired outcomes. The instructors in charge of each course prepare these in the departments. The center of gravity for all college activities is the student body. Their academic ability and future capacities are enhanced by the college's varied extracurricular and curricular activities. The college's academic programs and curriculum are designed to enhance the quality and quantity of the programs it offers, facilitate both vertical and horizontal career mobility, and ensure career guidance, skill development, and the growth of entrepreneurial abilities. Students are given access to smart boards, ICT tools, projectors, and online resources in addition to the required curriculum and conventional teaching techniques including lectures, quizzes, assessments, notes sharing, assignments, etc. Using a variety of cutting-edge, creative, and student-centered teaching strategies, the teaching and learning processes are streamlined for an efficient transfer of knowledge. Proctoring and mentoring are implemented as a means of ensuring discipline, understanding challenges, and providing one-on-one support. There is a continual internal review mechanism in place that is transparent and efficient. Regular assessments, an efficient attendance system, and doubt-free instruction have all significantly raised student performance and placement.

CONTENT

GRADUATE ATTRIBUTES OF THE COLLEGE

The institute has a well-designed graduate attributes for all learners of UG and PG streams. The institute underpinning its academic programmes and student life experience on campus through the Graduate Attributes (GA), which describe the knowledge, competencies, values, and skills students imbibe for holistic development and contribution to society. These attributes encompass characteristics that are transferable beyond the domain of study into the national and international realm fostered through curricular, co-curricular, and extra-curricular engagements.

The College aims to develop the following attributes within the students

1. Development of comprehensive and incisive understanding of their domain of study as well as the capability for cross-disciplinary learning.
2. Development of ethical and professional behaviour, which will be demonstrated in their chosen careers and constructive citizenship roles.
3. Developing critical thinking and problem solving ability on the basis of empirical evidences.
4. Graduates of the college have sensitivity to social concerns and a conviction toward social justice through a commitment to active social engagement.
5. The College inculcates value system and ethical competency among the students.
6. Development of leadership qualities and team behaviour along democratic lines through curricular, co-curricular and extra-curricular activities.
7. Development of digital competency to live, learn and serve in society.
8. To be endowed with a strong sense of environmental awareness through the curriculum and campus ecosystem.

PANCHAYAT COLLEGE, BARGARH

MISSION

M1	Educate society for present and future generations with indepth domain knowledge and consciousness for environment
M2	Develop problem solving, leadership quality with good communication skill learners.
M3	Aimed for the holistic development of the students inculcating moral and ethical values.
M4	To develop entrepreneurial skill within students and make them as responsible citizen.

PANCHAYAT COLLEGE, BARGARH

PROGRAMME OUTCOME (PO)

(M.A./ M.Sc. /M.Com./B.A. /B.Sc. / B.Com. / B.Ed. Programme)

PO-1	**Critical Thinking:** To take informed actions after identifying the assumptions that frame our thinking and actions
PO-2	**Effective Communication:** Will be able to speak, read, write and listen clearly in person and through electronic media in English and in one Indian Language
PO-3	**Social Interaction (Interpersonal Relation):** Elicit views of others, mediate disagreements and prepared to work in team.
PO-4	**Effective Citizenship**: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO-5	**Ethics**: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO-6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO-7	**Life-Long Learning:** Acquire the ability to engage in independent and life-long learning in the context of socio-technological changes

PROGRAMME SPECIFIC OUTCOME (PSO)

(M.A./ M.Sc. /M.Com./B.A. /B.Sc. / B.Com. / B.Ed. Programme)

PSO-1	Remember and understand the nature and basic concepts of subjects within the course domain.
PSO-2	Analyze the relationships among different concepts.
PSO-3	Gains knowledge about effective communication and skills of problem-solving methods.
PSO-4	Apply the basic concepts and learned to execute them.
PSO-5	Perform procedures as laid down in the areas of study.

COURSE OUTCOME (CO)
(MA/Msc/Mcom/BA/BSc/B com /B.Ed. Programme)

CO-1	Remember and understand the basic concept of the paper.
CO-2	Analyze various concepts through case studies.
CO-3	Understand the concept with related theoretical and practical knowledge.
CO-4	Execute assignments and reports based on the knowledge of the paper.

DEPARTMENT OF PHYSICS

Course Outcomes B. Sc. Physics

Course	Outcomes
C-I **Mathematical Physics - I**	**CO-1.** Students will understand and apply concepts of calculus, vector algebra, Dirac delta function, vector differentiation, and integration. **CO-2.** Analyse these concepts and solve related problems. **CO-3.** Apply mathematical techniques to practical physics problems. **CO-4.** Use these mathematical tools for various scientific topics.
C-II **Mechanics**	**CO-1.** Understand fundamental principles of mechanics. **CO-2.** Analyse forces and motion and solve related problems. **CO-3.** Apply mechanics concepts to real-world physics scenarios. **CO-4.** Use mechanics principles in practical and theoretical contexts.
C-III **Electricity & Magnetism**	**CO-1.** Understand the principles of electricity and magnetism. **CO-2.** Analyze electric and magnetic fields and solve related problems. **CO-3.** Apply these concepts to practical physics scenarios. **CO-4**. Prepare for advanced studies and professional applications in the field.
C-IV **Waves and Optics**	**CO-1.** Understand wave motion, interference, diffraction, polarization, and optical instruments. **CO-2.** Analyze and solve problems related to these concepts. **CO-3**. Apply these principles to practical physics scenarios. **CO-4.** Prepare for advanced studies and professional applications in the field.
C-V **Mathematical Physics - II**	**CO-1.** Understand Fourier series, polynomial equations, and partial differential equations. **CO-2.** Analyze these concepts and solve related problems. **CO-3.** Apply mathematical techniques to practical physics and scientific problems. **CO-4.** Use these tools across various topics.
C-VI **Thermal Physics**	**CO-1.** Understand the principles governing heat and thermodynamics. **CO-2.** Analyze thermal processes and solve related problems. **CO-3.** Apply these concepts to practical physics scenarios. **CO-4.** Prepare for advanced studies and professional applications in the field.
C-VII **Analog Systems and applications**	**CO-1.** Understand the principles of analog electronics. **CO-2.** Analyze circuit behavior and solve related problems. **CO-3.** Design analog systems for practical engineering applications. **CO-4.** Apply these concepts in communication, control, and instrumentation.

C-VIII **Mathematical Physics - III**	**CO-1.** Understand complex analysis, integral transforms, and Laplace transforms. **CO-2.** Analyze these concepts and solve related problems. **CO-3.** Apply mathematical techniques to practical physics and science problems. **CO-4.** Use these tools across various topics.
C-IX **Elements of Modern Physics**	**CO-1**. Understand foundational principles such as atomic models, wave packets, and nuclear physics. **CO-2.** Analyze modern physics phenomena and solve related problems. **CO-3.** Apply these concepts to contemporary scientific and technological advancements. CO-**4.** Prepare for advanced studies and professional applications in modern physics
C-X **Digital Systems & Application**	**CO-1.** Understand digital electronics principles. **CO-2.** Analyze digital circuits and systems, and solve related problems. **CO-3.** Design digital solutions for practical engineering applications. **CO-4.** Apply these concepts in computing, communication, and control systems
C-XI **Quantum Mechanics**	**CO-1.** Understand fundamental principles such as wave-particle duality, wave functions, operators, and uncertainty principles. **CO-2.** Analyze quantum phenomena and solve related problems. **CO-3.** Apply these concepts to diverse scientific and technological fields. **CO-4.** Prepare for advanced studies and professional applications in quantum mechanics
C-XII **Solid State Physics**	**CO-1.** Understand principles governing crystalline structures, electronic band theory, and semiconductor physics. **CO-2.** Analyze properties of solids and solve related problems. **CO-3.** Apply these concepts to practical applications in materials science, nanotechnology, and device engineering. **CO-4**. Prepare for advanced studies and professional applications in solid state physics.
C-XIII **Electro-magnetic Theory**	**CO-1.** Understand Maxwell's equations, electromagnetic fields, and wave propagation principles. **CO-2**. Analyze complex electromagnetic phenomena and solve related problems. **CO-3.** Apply these concepts to practical applications in telecommunications, optics, and electromagnetic devices. **CO-4.** Prepare for advanced studies and professional applications in electromagnetic theory.
C-XIV **Statistical Mechanics**	CO-1. Understand principles of microcanonical, canonical, and grand canonical ensembles. CO-2. Analyze statistical distributions and solve related problems.

	CO-3. Apply these concepts to describe systems with many degrees of freedom. **CO-4.** Address phase transitions and thermodynamic properties in physics.
DSE – I **Classical Dynamics**	**CO-1.** Understand principles of classical dynamics, including equations of motion, Hamilton's principle, and four-vectors. **CO-2.** Solve complex physical problems using these concepts. **CO-3.** Apply these principles to real-world scenarios. **CO-4.** Prepare for advanced studies and professional applications in classical dynamics.
DSE – II **Nuclear & Particle Physics**	**CO-1.** Gain a comprehensive understanding of nuclear and particle physics. **CO-2.** Study the structure of atomic nuclei, radioactive decay, particle interactions, and fundamental forces. **CO-3.** Analyze and interpret experimental data in these fields. **CO-4.** Prepare for advanced studies and professional applications in nuclear and particle physics
DSE – III **Nano Materials and Application**	**CO-1.** Understand properties, synthesis, and characterization of nanomaterials. **CO-2.** Study applications in electronics, medicine, and energy. **CO-3.** Innovate and solve practical problems using nanoscale technologies. **CO-4.** Prepare for advanced studies and professional applications in nanotechnology.
DSE – IV **Project**	**CO-1.** Develop research skills by designing and conducting a physics project. **CO-2.** Analyze data and present findings. **CO-3.** Foster a deep understanding of scientific inquiry. **CO-4.** Communicate complex concepts effectively.

DEPARTMENT OF CHEMISTRY

Course Outcomes B.Sc. Chemistry

Course	Outcomes
C-I **Inorganic Chemistry-I**	**CO-1.** To understand the basic structure of atom and basics of quantum mechanics **CO-2.** To study the variation of various properties of atoms **CO-3.** To study that basic concept of chemical bonding **CO-4.** To study the various types of chemical bonds
C-II **Physical Chemistry-I**	**CO-1.** Understanding the behaviour of ideal and real gases. **CO-2.** Understand the liquid state of matter **CO-3.** To study the basic concept of solid state chemistry **CO-4.** To understand the Behaviour of ions in solution state.
C-III **Organic Chemistry-I**	**CO-1.** To remember and understand the basic concept of organic chemistry **CO-2.** To study and understand the basic structures of organic molecules. **CO-3**. To study and analyse the chemistry of hydrocarbons and their conformational analysis **CO-4.** To study the chemistry of aromatic hydrocarbons
C-IV **Physical Chemistry-II**	**CO-1.** To study the basic concept of chemical thermodynamics **CO-2.** To understand the basic concept of entropy, free energy and spontaneity of a process **CO-3.** To study the application thermodynamics of systems in chemical equilibrium **CO-4.** To study and understand the colligative properties of solutions
C-V **Inorganic Chemistry-II**	**CO-1.** To understand the basic concept of metallurgy and to concept of acids and bases **CO-2.** To understand the stability and reactivity of S and P block elements **CO-3.** To study and understand the chemistry of boron, nitrogen, Phosphorous, sulphur and halogens **CO-4.** To understand the chemistry and reactivity noble gas elements
C-VI **Organic Chemistry-II**	**CO-1.** Study of chemistry of alkyl halides and aryl halides **CO-2.** Study of chemistry and reactivity of alcohols, phenols, epoxides and ethers **CO-3**. Study of chemistry and chemical reactions of aldehydes and ketones **CO-4.** To understand the chemistry of carboxylic acids, acid chlorides, esters, amides and sulphur compounds
C-VII **Physical Chemistry-III**	**CO-1.** To study and understand the basic concept of phase equilibria in heterogeneous systems **CO-2.** Study of the application thermodynamics in heterogeneous equilibrium system **CO-3.** Understanding the concept of rate and dynamics in chemical reactions **CO-4.** To study the role of catalyst in chemical reactions

C-VIII **Inorganic Chemistry-III**	**CO-1**. To understand the chemistry of coordination compounds **CO-2.** Study of chemistry and reactivity of transition metals **CO-3.** Study of relative stability of oxidation state of some transition metals and chemistry of lanthanoids and actinoids **CO-4.** Study of role of metal ions in biological systems and Toxicity of metal ions
C-IX **Organic Chemistry-III**	**CO-1**. Study of chemistry and chemical reactions of nitrogen containing organic compounds like amines, nitriles and nitro compounds **CO-2.** Chemistry of polynuclear hydrocarbons of chemical properties of diazonium salts **CO-3.** Study of physical and chemical properties of heterocyclic compounds like Furan, pyrrole, pyridine, pyrimidine etc. **CO-4.** Study of chemistry and applications of alkaloids and terpenoids.
C-X **Physical Chemistry-IV**	**CO-1.** Study of conductivity of electrolytic solutions, variation of conductivity with dilution and migration of ions. **CO-2.** Understanding the concept of ionic velocities, mobilities, transport number, conductance measurement **CO-3.** To study the basic principle and laws of electrolysis, concept of EMF, its measurement and application of EMF **CO-4.** To study the concepts of concentration cells, liquid junction potential, potentiometric titration and electrical properties of atoms and molecules
C-XI **Organic Chemistry-IV**	**CO-1.** Study of basic principle and applications of UV-visible spectroscopy in organic chemistry **CO-2.** Study of basic principle and applications of IR spectroscopy in organic compounds **CO-3**. Basic principles of NMR spectroscopy and Mass spectrometry, Application of UV, IR and NMR and Mass for identification of organic compounds **CO-4.** To understand the physical and chemical properties of carbohydrates.
C-XII **Physical Chemistry-V**	**CO-1.** To understand the concept and postulates of quantum mechanics, Schrodinger's equation and its applications **CO-2.** To study the concept of covalent bonding, valence bond theory, MO theory. **CO-3.** Study of molecular spectroscopy: rotational spectroscopy, vibrational spectroscopy, **CO-4.** Understanding Raman spectroscopy, electronic spectroscopy and photochemistry
C-XIII **Inorganic chemistry-IV**	**CO-1.** To understand the physical and chemical properties of organometallic compounds. **CO2**. Study of physical and chemical properties of metal alkyls, ferrocene, Ziegler-Natta catalyst, multicentre bonding **CO-3**. Study of catalytic activities of organometallic compounds; Basic principles of qualitative analysis of cations and anions **CO-4.** Study of thermodynamic and kinetic aspects and reaction mechanism of coordination compounds

C-XIV **Organic Chemistry-V**	**CO-1.** To understand the physical and chemical properties of amino acids, proteins and peptide bonds, Structure of proteins **CO-2**. Understanding the concept of enzyme, mechanism of action and kinetics of enzyme, role enzyme in biological systems, Structure, synthesis and functions of nucleic acids **CO-3.** To study the structural, physical and chemical properties of lipids, and concept of energy in biological systems **CO-4.** Structure and applications of pharmaceutical compounds. Structure , synthesis and properties of dyes

DEPARTMENT OF MATHEMATICS

Courses Outcomes M.Sc. Mathematics

Course	Outcomes
C-I **Real Analysis**	**CO-1.** The student will understand and solve problems of uniform continuity, uniform convergence and will also test whether a function is of bounded variation or not. **CO-2.** The student will learn and solve problems about partial derivatives, directional derivatives, Jacobians, Inverse and implicit theorems. **CO-3.** The student will be able to calculate Riemann-Stieltjes Integrals. **CO-4.** The student will be able to find the Fourier series and apply it.
C-II **Complex Analysis**	**CO-1.** Understand analytic function as a mapping on the plane, Mobius transformation and conformal mappings. **CO-2.** Prove Cauchy theorem on various domains and learn the use of Cauchy integral formula and other results. **CO-3.** Find singularities and Evaluate contour integral using method of residues.
C-III **Algebra-I**	**CO-1.** Solve problems of basic group theory, group actions, automorphisms and Sylow theory. **CO-2.** Understand problems of product and semi direct product of groups and solvable groups. **CO-3.** Find eigen value and eigen vectors and calculate various canonical forms. **CO-4.** Handle problems of unitary, self-adjoint, normal operators and bilinear forms.
C-IV **Topology**	**CO-1.** To understand the concept of a topological space, basis, sub basis with various examples and to understand new topologies like product topology, quotient topology, metric topology etc . **CO-2.** To solve problems involving continuous maps , homeomorphisms between two spaces , connectedness and compactness.

	CO-3-To deal with Hausdorff, regular, normal ,separable, first and second countable spaces and Lindelöf spaces. **CO-4.** To understand homotopy, fundamental groups, and covering spaces.
C-V **MATLAB**	**CO-1.** Use basic MATLAB tools. **CO-2.** Plot different graphs in two-dimensions and three-dimensions. **CO-3.** Use the inbuilt array structures for calculations of algebra of matrices and solve the system of equations through various numerical methods. **CO-4.** Use different control flows for the writing of the simple programs and explore various applications to Numerial analysis and differential equations.
C-VI **Programming Lab-1 (MATLAB)**	**CO-1.** To learn to write codes using basics of MATLAB. **CO-2.** To write code for problems from calculus and series sums. **CO-3.** To Write MATLAB codes for problems linear algebra. **CO-4.** To write MATLAB code for finding roots of equations, for problems in Numerical analysis
C-VII **Measure Theory and Integration**	**CO-1.** To study and understand the basic concept of phase equilibria in heterogeneous systems **CO-2.** Study of the application thermodynamics in heterogeneous equilibrium system **CO-3.** Understanding the concept of rate and dynamics in chemical reactions **CO-4.** To study the role of catalyst in chemical reactions
C-VIII **Ordinary Differential Equations**	**CO-1.** Understand the various type of behaviour of solutions of differential equations. **CO-2.** Will be able to model problems in nature using ODE. **CO-3.** This is also prerequisite for taking other core courses in partial differential equations, Stability theory, Oscillation theory, Evolution equations, Dynamical systems, Bifurcation theory, Mathematical modelling etc.
C-IX **Algebra-II**	**CO-1.** The knowledge on this course will provide the basis for further studies in advanced algebra like commutative algebra, linear groups, etc., which forms the basics of higher mathematics.
C-X **Differential Geometry**	**CO-1.** A student can opt for a course on Lie Group, Lie Algebra, Symplectic Geometry, Poisson Geometry, Global Analysis, Several Complex Variable, Hyperbolic Geometry, Projective and Algebraic Geometry and all these courses are main component for Mathematical Physics, Relativity, Cosmology and Standard Models.

C-XI **Python Language**	**CO-1.** To learn to write codes using basics of PYTHON. **CO-2.** To learn to write codes on OOPs and database management. **CO-3.** To Write PYTHON codes for problems linear algebra. **CO-4.** To write PYTHON code for finding roots of equations, for problems in Numerical analysis.
C-XIII **Programming Laboratory II (Python Language)**	**CO-1.** To learn to write codes using basics of Python programming **CO-2.** To write code for problems from calculus, linear Algebra and Numerical analysis.
C-XIV **Functional Analysis**	**CO-1.** Students can opt for courses like Operator Theory, Harmonic Analysis, Spectral Theory, Scattering Theory, Representation Theory etc.
C-XV **Partial Differential Equations**	**CO-1.** A student will be able to take advanced courses on wave equation, heat equation, diffusion equation, gas dynamics, non-linear evolution equations and integrable models etc. All these courses are important in engineering and has industrial and defence application.
C-XVI **Mathematical Methods**	**CO-1.** A student trained in this course can opt for courses like digital signal processing, variational analysis, Wavelets. This exposes the application of mathematics to various real-life problems.
C-XVII **Programming Laboratory-III (Latex Programing)**	**CO-1.** After taking this lab course a student will be able to prepare a mathematics thesis, lab document, research paper or report on his own
C-XVIII **Matrix Analysis**	**CO-1.** After taking this course a student will be learned about different types matrix and their behaviours
C-XIX **Graph Theory**	**CO-1.** The course is prerequisite to almost all courses and research in computer science. Besides it has applications to other branches in mathematical sciences. **CO-2.** A student can opt for Matroid theory, Network Analysis, Algorithm and Data Analysis courses after completing this course.
C-XX **Optimization Technique**	**CO-1.** After taking this course a student will be comfortable to opt for M.Tech in computer science with the undergraduate Operation Research course in the mind. **CO-2.** This course will help a lot to the students availing DRDO program. **CO-3.** It will help the mathematics students coming forward for research in Operation Research which is also a research topic in Statistics.

C-XXI **Probability and Stochastic Process**	**CO-1.** The course will train the students in various applications of stochastic process in Mathematical finance, physical sciences, and communication engineering and computer science. **CO-2.** Students learn basics of various random processes such as Markov Chains, Poisson processes, renewal processes and Brownian motion, etc. for application Expected Outcomes.
C-XXII **Project Dissertation**	**CO-1.** After taking this course a student will comfortable to do research in future times. **CO-2.** the course will inspire students to opt for Ph.D. to do research
C-XXIII **Fourier Analysis**	**CO-1.** This course prepares students to go for courses in Fourier Transform, Wavelets, Image Processing and Harmonic Analysis. **CO-2.** Using Dirichlet conditions students can evaluate infinite series. Students can directly be exposed to state of the art research problem in this area.
C-XXIII **Number Theory and Foundation of Cryptography**	**CO-1.** The students will also learn how number theory is used in public key cryptography to securely transmit information over the internet.

Courses Outcomes B.Sc. Mathematics

Course	Outcomes
C-I **Calculus**	**CO-1.** Leibnitz's rule to evaluate derivatives of higher order. **CO-2.** Able to study the geometry of various types of functions. **CO-3.** Evaluate the area, volume using the techniques of integrations. **CO-4.** Able to identify the difference between scalar and vector. **CO-5.** Acquired knowledge on some the basic properties of vector functions.
C-II **Discreet Mathematics**	**CO-1.** The acquired knowledge will help students in simple mathematical modelling. **CO-2.** They can study advance courses in mathematical modelling, computer science, statistics, physics, chemistry etc
C-III **Real Analysis**	**CO-1.** Able to handle fundamental properties of the real numbers that lead to the formal development of real analysis **CO-2.** Understand limits and their use in sequences, series, differentiation and integration. **CO-3.** Students will appreciate how abstract ideas and rigorous methods in mathematical analysis can be applied to important practical problems.
C-IV	**CO-1.** Able to solve differential equations. **CO-2.** Able to model problems in nature using Ordinary Differential Equations.

Differential Equations	**CO-3.** This is also prerequisite for studying the course in Partial Differential Equations and models dealing with Partial Differential Equations.
C-V **Theory of Real Function**	**CO-1.** Will have working knowledge on the concepts and theorems of the elementary calculus of functions of one real variable. **CO-2.** They will work out problems involving derivatives of function and their applications. **CO-3.** They can use derivatives to analyze and sketch the graph of a function of one variable. **CO-4.** can also obtain absolute value and relative extrema of functions. **CO-5.** This knowledge is basic and students can take all other analysis courses after learning this course.
C-VI **Group Theory-I**	**CO-1.** Gets idea on concept and examples of groups and their properties. **CO-2.** He/she understands cyclic groups, permutation groups, normal subgroups and related results. **CO-3.** After this course he can opt for courses in ring theory, field theory, commutative algebras, linear classical groups etc. **CO-4.** Can apply this knowledge to problems in physics, computer science, economics and engineering.
C-VII **Partial Differential Equations and system of ODE**	**CO-1.** Able to take more courses on wave equation, heat equation, diffusion equation, gas dynamics, non-linear evolution equations etc. **CO-2.** All these courses are important in engineering and industrial applications for solving boundary value problem.
C-VIII **Numerical Methods and Scientific Computing**	**CO-1.** Students can handle physical problems to find an approximated solution. **CO-2.** After getting trained a student can opt for advance courses in Numerical analysis in higher mathematics. **CO-3.** Use of good mathematical software will help in getting the accuracy one need from the computer and can assess the reliability of the numerical results. **CO-4.** Determine the effect of round off error or loss of significance
C-IX **Topology of metric spaces**	**CO-1.** On successful completion of the course students will learn to work with abstract topological spaces. **CO-2.** This is a foundation course for all analysis courses in future.
C-X **Ring Theory**	**CO-1.** After completing this course, this will help students to continue more courses in advanced Ring theory modules, Galois groups.

C-XI **Multivariate Calculus**	**CO-1.** Student will be able to calculate partial derivatives, directional derivatives, extremum values. **CO-2.** Can calculate double, triple and line integrals. **CO-3.** He/she will have idea of basic vector calculus including green's theorem, divergence theorem and stokes theorem. **CO-4.** He/she can take courses in calculus on manifolds, Differential geometry and can help in numerical computations involving several variables
C-XII **Liner Algebra**	**CO-1.** Student will use this knowledge wherever he/she goes after undergraduate program. **CO-2.** It has applications in computer science, finance mathematics, industrial mathematics, bio mathematics and what not.
C-XIII **Complex Analysis**	**CO-1.** Students will be able to handle certain integrals not evaluated earlier **CO-2.** Will know technique for counting the zeros of polynomials. **CO-3.** This course is prerequisite to many other advance analysis courses.
C-XIV **Group Theory -II**	**CO-1.** The knowledge of automorphism helps to study more on field theory. **CO-2.** Students learn on direct products, group actions, class equations and their applications with proof of all results. **CO-3.** This course helps to opt for more advanced courses in algebra and linear classical groups.
DSE-I **Liner Programming**	**CO-2.** Knowledge on this topic in higher studies will help students to deal industrial models. **CO-2.** This is also prerequisite for studying advanced courses in Nonlinear Programming Problems, Inventory Control Problem and Queuing Theory etc.
DSE-II **Probability and Statistics**	**CO-1.** The students shall learn probability and statistics for various random variables. CO2: Students will learn multivariate distributions, correlations and relations. **CO-2.** He/she shall learn law of large numbers and shall be able to do basic numerical calculations.
DSE-III **Differential Geometry**	**CO-1.** A student will learn on Serret-Frenet formulae, relation between tangent, normal and binormals. **CO-2.** He/she will learn about first and second fundamental forms and ideas on various curvatures. **CO-3.** He/she has scope to take more advanced courses in surface theory and geometry.
DSE-IV **Number Theory**	**CO-1.** Students will able to know the basic definitions and theorems in number theory.

	CO-2. Identify order of an integer, primitive roots, Euler's criterion, the Legendre symbol, Jacobi symbol and their properties. **CO-3.** Understand modular arithmetic number-theoretic functions and apply them to cryptography.
GE-I **Calculus and Differential Equations**	**CO-1.** After completing the course, students are expected to be able to apply knowledge of calculus and differential equations in the areas of their own interest.
GE-II **Algebra**	**CO-1.** students to study further courses in mathematics like, group theory, ring theory and field theory and linear algebra. **CO-2.** It has applications not only in higher mathematics but also in other science subjects like computer science, statistics, physics, chemistry etc.
GE-III **Real Analysis**	**CO-1.** Students will be able to handle fundamental properties of the real numbers that lead to the formal development of real analysis. **CO-2.** Understand limits and their use in sequences, series, differentiation and integration. **CO-3.** Students will appreciate how abstract ideas and rigorous methods in mathematical analysis can be applied to important practical problems.
GE-IV **Fourier Analysis**	**CO-1.** Students can handle physical problems to find an approximated solution. **CO-2.** After getting trained a student can opt for advance courses in Numerical analysis in higher mathematics. **CO-3.** Use of good mathematical software will help in getting the accuracy one need from the computer. **CO-4.** Can assess the reliability of the numerical results, and determine the effect of round off error or loss of significance.

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DEPARTMENT OF COMPUTER SCIENCE

Courses Outcomes B.Sc. Computer Science

Course	Outcomes
C-I **Programming using C**	**CO-1.** To learn basics of C programming language. **CO-2.** To be able to develop logics to create programs/ applications in C.
C-II **Digital Logic**	**CO-1.** To understand different methods used for the simplification of Boolean functions and binary arithmetic. **CO-2.** To design and implement combinational circuits, synchronous & asynchronous sequential circuits. **CO-3.** To study in detail about Semiconductor Memory Systems.
C-III **Programming using C++**	**CO-1.** To know about the Object Oriented Programming concepts. **CO-2.** To learn basics of C++ programming language. **CO-3.** To be able to develop logics to create programs/ applications in C++.
C-IV **Data Structures**	**CO-1.** To learn how the choice of data structures impacts the performance of programs. **CO-2.** To study specific data structures such as arrays, linear lists, stacks, queues, hash tables, binary trees, binary search trees, heaps and AVL trees. **CO-3.** To learn efficient searching and sorting techniques.
C-V **JAVA Programming**	**CO-1.** To learn the fundamentals of Object Oriented Programming in Java environment. **CO-2.** To learn the use of Java language and the Java Virtual Machine. **CO-3.** To write simple Java programming applications.
C-VI **Database Systems**	**CO-1.** To learn the fundamental elements of database system. **CO-2.** To learn the basic concepts of relational database management systems. **CO-3.** To learn various SQL commands.
C-VII **Discrete Mathematical Structures**	**CO-1.** To learn the mathematical foundations for Computer Science. Topics covered essential for understanding various courses.
C-VIII **Operating Systems**	**CO-1.** To understand Operating system structure and services. **CO-2.** To understand the concept of a Process, memory, storage and I/O management.
C-IX **Computer Networks**	**CO-1.** To learn how do computers and terminals actually communicate with each other. **CO-2.** To understand the parts of a communication network and how they work together.

C-X **Computer Graphics**	**CO-1.** To be able to learn the core concepts of Computer Graphics. **CO-2.** To be able to create effective programs for solving graphics problems.
C-XI **Web Technology**	**CO-1.** To learn the fundamentals of web designing. **CO-2.** To design and develop standard and interactive web pages. **CO-3.** To learn some popular web scripting languages.
C-XII **Software Engineering**	**CO-1.** To learn the way of developing software with high quality and the relevant techniques. **CO-2.** To introduce software engineering principles for industry standard. **CO-3.** To focus on Project management domain and Software risks management.
DSE-1 **Numerical Techniques**	**CO-1.** To learn various numerical techniques. **CO-2.** To be able to implement different numerical techniques using programming language.
DSE-2 **Unix Shell Programming**	**CO-1.** To learn the basics of UNIX OS, UNIX commands and File system. **CO-2.** To familiarize students with the Linux environment. **CO-3.** To learn fundamentals of shell scripting and shell programming.
C-XIII **Artificial Intelligence**	**CO-1.** To learn the basic concepts of AI principles and approaches. **CO-2.** To develop the basic understanding of the building blocks of AI.
C-XIV **Algorithm Design Techniques**	**CO-1.** To be able to learn design principles and concepts of algorithms. **CO-2.** To have a mathematical foundation in analysis of algorithm.
DSE-III **Data Science**	**CO-1.** To learn emerging issues related to various fields of data science. **CO-2.** To understand the underlying principles of data science, exploring data analysis.
DSE-IV **Project Work**	**CO-1.** To get familiarize with practical real life problem using programming.

DEPARTMENT OF BOTANY

Courses Outcomes B.Sc. Botany

Course	COURSE OUTCOME
C-I **Microbiology and Phycology**	**CO-1.** Students will comprehend the diverse nature of microbes and their interactions with other organisms. **CO-2.** Students will utilize their knowledge of various microbes and methods to harness them for human benefit. **CO-3.** Students will identify significant microbes, including bacteria, cyanobacteria, and algae, in local environments and understand their beneficial roles. **CO-4.** Students will learn techniques to observe and identify diverse microbes and their interactions with other organisms. **CO-5.** Students will apply practical methods to harness the potential of various microbes for human welfare. **CO-6.** Students will develop skills in identifying important microbes, including bacteria, cyanobacteria, and algae, in local environments and understanding their beneficial roles.
C-II **Biomolecules and Cell Biology**	**CO-1.** Students will grasp the critical role of energy in cellular processes. **CO-2.** Students will be able to describe the structures and functions of fundamental cellular components, including macromolecules, membranes, and organelles. **CO-3.** Students will apply their understanding of how these cellular components generate and utilize energy within cells.
C-III **Mycology and Phytopathology**	**CO-1.** Students will express their understanding of the life cycles of commonly encountered fungal genera and the diseases they cause. **CO-2.** Students will elucidate the various types of fungal associations and their significance. **CO-3.** Students will possess knowledge and proficiency in utilizing fungi and fungal biomolecules for human benefit. **CO-4.** Students will demonstrate the ability to identify the causes and conditions leading to prevalent plant diseases, along with methods for their management.
C-IV **Archegoniate**	**CO-1.** Students will be able to compare the diversity of different archegoniate and their patterns of habitat-specific distribution. **CO-2.** Students will possess the skills to differentiate primitive vascular genera based on their morphology and anatomy. **CO-3.** Students will demonstrate the ability to identify members of pteridophytes and understand their characteristic features. **CO-4.** Students will classify the unique features and distribution patterns of gymnosperms. **CO-5.** Students will analyze various types of fossils based on their characteristics.

C-V **Anatomy of Angiosperms**	**CO-1.** Students will be capable of describing the internal structure of plant systems and organs. **CO-2.** Students will gain a deep understanding of the development of the concept of the organization of shoot and root apices. **CO-3.** Students will possess the ability to elucidate the makeup of various plant parts and their inter-relationships. **CO-4.** Students can describe the characteristics and functions of secretory tissues.
C-VI **Economic Botany**	**CO-1.** Students will understand the origins and evolution of crops and the significance of wild relatives in crop enhancement. **CO-2.** Students will be able to describe the cultivation methods of common crops. **CO-3.** Students will classify plants used for food, beverages, spices, and materials.
C-VII **Genetics**	**CO-1.** Understand Mendelian genetics, principles of inheritance, and genetic phenomena. **CO-2.** Comprehend extrachromosomal inheritance and related examples. **CO-3.** Understand linkage, crossing over, chromosome mapping and gene mapping numerical. **CO-4.** Analyze chromosome variations, gene mutations, mutagens, DNA repair and population genetics.
C-VIII **Molecular Biology**	**CO-1.** Explain the historical role of nucleic acids in genetics and the structure and organization of DNA and RNA. **CO-2.** Describe DNA replication mechanisms, the central dogma, genetic code and RNA processing and modification. **CO-3.** Examine transcription mechanisms and their regulation in prokaryotes and eukaryotes. **CO-4.** Outline the translation processes in prokaryotes and eukaryotes, focusing on ribosome function, protein synthesis stages and post-translational modifications.
C-IX **Plant Ecology & Phytogeography**	**CO-1.** Understand ecological concepts, levels of organization and plant adaptations to environmental factors. **CO-2.** Examine soil formation, composition and role of climate in soil development, as well as the states of water in the environment and hydrological cycle. **CO-3.** Analyze biotic interactions, population ecology, plant communities and ecological succession. **CO-4.** Explain ecosystem structure and processes, energy flow models, biogeochemical cycles and principles of phytogeography.
C-X **Plant Systematics**	**CO-1.** Explain plant identification, classification, and nomenclature, including herbarium functions and documentation. **CO-2.** Describe the taxonomic hierarchy and principles of botanical nomenclature. **CO-3.** Explore systematics through evidence from palynology, cytology, phytochemistry, molecular data and review major classification systems. **CO-4.** Analyze the phylogeny and evolution of angiosperms and describe specific angiosperm families

C-XI **Reproductive Biology of Angiosperms**	**CO-1.** Explain the history and scope of reproductive biology, anther structure and function, microsporogenesis and pollen biology. **CO-2.** Describe ovule structure, types, special structures, and female gametophyte development. **CO-3.** Analyze pollination and fertilization processes, including adaptations, stigma and style structure, and self-incompatibility methods. **CO-4.** Detail the development, structure, and functions of endosperm and embryo, seed structure and dispersal mechanisms and apomixis.
C-XII **Plant Physiology**	**CO-1.** Explain plant water relationships, including water potential, absorption, movement, and transpiration. **CO-2.** Describe mineral nutrition and nutrient uptake mechanisms in plants. **CO-3.** Understand plant growth regulators, their discovery, chemical nature, bioassay, and physiological roles. **CO-4.** Analyze the physiology of flowering, photoperiodism, vernalization, seed dormancy, senescence, and the role of phytochrome in photomorphogenesis.
DSE - I **Analytical Techniques in Plants Sciences**	**CO-1.** Understand the principles and applications of various microscopy techniques, including light, fluorescence and electron microscopy. **CO-2.** Describe cell fractionation techniques, including differential and density gradient centrifugation and the use of radioisotopes and spectrophotometry in biological research. **CO-3.** Explain the principles and applications of chromatography techniques and the characterization of proteins and nucleic acids using mass spectrometry, X-ray crystallography and electrophoresis. **CO-4.** Apply biostatistical methods, including data representation, measures of central tendency and dispersion, chi-square tests and significance testing for biological research.
DSE - II **Natural Resource Management**	**CO-1.** Understand the definition and types of natural resources, and concepts and approaches to sustainable utilization, including land and water management. **CO-2.** Explain the significance, threats, and management strategies for biodiversity and forests, including bioprospecting, IPR, and national biodiversity action plans. **CO-3.** Describe renewable and non-renewable energy sources and contemporary practices in resource management, such as EIA, GIS, and carbon footprint analysis. **CO-4.** Analyze resource accounting and waste management, including national and international efforts in resource management and conservation.
C-XIII **Plant Metabolism**	**CO-1.** Understand metabolism concepts, including anabolic and catabolic pathways, regulation, and signal transduction mechanisms. **CO-2.** Explain carbon assimilation, including photosynthesis processes, pathways, and photorespiration. **CO-3.** Describe carbon oxidation, glycolysis, TCA cycle, mitochondrial electron transport, and ATP synthesis mechanisms.

	CO-4. Analyze lipid and nitrogen metabolism, including synthesis and breakdown of triglycerides, nitrogen fixation, and ammonia assimilation.
C-XIV **Plant Biotechnology**	**CO-1.** Explain plant tissue culture techniques, media composition, totipotency, organogenesis and tissue culture applications. **CO-2.** Describe recombinant DNA technology, including restriction endonucleases, cloning vectors and PCR-mediated gene cloning. **CO-3.** Understand gene constructs, DNA library construction and screening, gene transfer methods and selection of transgenics. **CO-4.** Analyze biotechnology applications, including pest and herbicide-resistant plants, transgenic crops, bioremediation, edible vaccines, industrial enzymes and genetically engineered products.
DSE-3 **Horticulture Practices & Post Harvest Technology**	**CO-1.** Explain the scope and importance of horticulture, its role in the economy, food security, and urban horticulture, including the identification and classification of ornamental plants. **CO-2.** Describe the production, management, and marketing of fruit and vegetable crops, horticultural techniques, and principles of landscaping and garden design. **CO-3.** Analyze post-harvest technology, including quality evaluation, preservation methods, disease control, and integrated pest management strategies. **CO-4.** Understand the conservation and management of horticultural crops, including germplasm conservation, micropropagation, tissue culture techniques, and IPR issues.
DSE – 4 **Project Work**	**CO-1.** Develop skills in formulating research questions, designing experiments, and applying scientific methodologies. **CO-2.** Gain proficiency in data collection, analysis, and interpretation using various techniques and tools. **CO-3.** Demonstrate the ability to critically review scientific literature and integrate findings into a coherent research framework. **CO-4.** Enhance communication skills through the presentation of research findings in written and oral formats. **CO-5.** Cultivate problem-solving abilities and independent thinking through hands-on research experience.

Courses Outcomes M.Sc. Botany

Course	Course Outcome
C-1 Microbial Diversity	**CO-1.** Thallus organisation of algae, fungi and structure of bacteria as well as viruses with their salient features. 2. Different kinds of algal, fungal, lichen and bacteria, viruses diversity and their economic implication. **CO-2.** 3.The diversity of micro-organisms, their classification, structure and growth.

	CO-3. 4. Methods in microbiology, develop theoretical and technical skills of basic microbiology (sterilize, isolate, culture, preserve microbes), the structure of bacteria and viruses. **CO-4.** 5.The diversity of micro-organisms, their classification, structure and growth. 6.Applied aspects of microbial diversity in various fields e.g.: pharmaceuticals, agriculture etc. 7. Ways and means of combating plant diseases so as to minimize economic loss. The course has importance in the areas of academics, research, and employability
C-2 Diversity of Cryptogams and Gymnosperms	**CO-1.** On successful completion of this course, students will be able to know about … **CO-2.** 1. The plant diversity (Cryptogams, and Gymnosperms) and understanding the evolutionary trends through the study of palaeobotany. **2.** The evolutionary diversification of early land plants and morphological and reproductive innovations in Cryptogams and gymnosperms. The course has importance in the areas of academics and research.
C-3 Biochemistry	**CO-1.** Students would know.. **CO-2.** Energy transduction mechanism and biochemical energetic in plants. **CO-3.** Enzymes, their structure, role and properties. **CO-4.** 3. Structure, functions and their biological importance of biomolecules
C-4 Analytical Techniques	Students will have in depth knowledge of **CO-1.** Different instruments used in biological research and their principle with use. **CO-2.** Application of various instruments in biological research.
C-5 Practical	Students will learn and perform practical on **CO-1.** Use of sterilization instruments, media preparation. **CO-2.** Isolation and study of microorganisms. **CO-3.** Study of common fungal diseases, vegetative habits, anatomy and reproduction. **CO-4.** morphology of common Cryptogams and Gymnosperms. **CO-5.** Protein, Nucleic, Chlorophyll estimation.. **CO-6.** Modern instruments used in botany, cytological techniques. **CO-7.** Electrophoresis, spectroscopy, centrifugation, isolation of microorganisms etc The course has importance in the areas of academics, research, and employability
C-6 Systematic of Angiosperms	**CO-1.** Classifications different methods of naming plants, different principles of nomenclature etc.

	CO-2. Phylogeny and phylogenetic systematic, methods used in molecular systematic studies. **CO-3.** Description and identification of various families of plants. Study of various ethnomedicinal plants and their importance
C-7 Plant physiology and Metabolism	**CO-1.** The mechanism of osmotic relations, metabolism, growth and morphogenesis. **CO-2.** Plant hormones, photosynthesis, various pigments and nitrogen assimilation in plants.
C-8 Cell and Molecular biology	**CO-1.** Cell theory, ultra structure and chemical composition of the cell and cell organelles. **CO-2.** Cell cycle, apoptosis, and its control mechanism **CO-3.** The structure and function of the protein and nucleic acid, DNA organization andits packaging. **CO-4.** Principle mechanisms of genome replication, maintenance, function and regulation of expression. **The course has importance in the areas of academics, research, and employability**
C-9 Ecology and Biostatistics	**CO-1.** Organism and population concept, interactions among populations. **CO-2.** Community structure and community dynamics. **CO-3.** Concept of ecosystem, ecosystem energetic, environmental pollution. **CO-4.** Importance of environmental awareness. **CO-5.** Use of Biostatistics and different formula in biological research **The course has importance in the areas of academics, research, and employability**
C-10 Practical	**CO-1.** Karyotype analysis. **CO-2.** Mitosis and meiosis **CO-3.** Basic recombinant DNA technology, DNA amplification **CO-4.** Ecological adaptations. **CO-5.** Experiments on various physiological processes. **CO-6.** Calculation of mean, median, modes, chi-square test, student t-test **The course has importance in the areas of academics, research, and employability.**
C-11 Plant embryology and anatomy	**CO-1.** Sporogenesis, gametogenesis, pollination, fertilization, post-fertilization changes. **CO-2.** Structure, functions, types, development of fruits.Seed germination and the factors affecting seed germination.
C-12 Genetics, plant breeding and evolution	**CO-1.** Medelian inheritance lawas, its deviation cases. **CO-2.** Haploidy, aneuploidy, polyploidy, chromosome banding pattern. **CO-3.** Mutations, transposons, epigenetics, epigenomics, human genetic diseases. **CO-4.** Traditional and modern methods of crop improvement and plant breedin **The course has importance in the areas of academics, research, and employability.**
C-13 Plant Pathology	**CO-1.** Causes, spreading and eradication of plant diseases. **CO-2.** Life cycle of causal organisms
C-14 Natural resource, conservation and utilization	Students will have in depth knowledge of **CO-1.** Environmental pollution. **CO-2.** Importance of environmental awareness. **CO-3.** Types of natural resources and their importance.

	CO-4. Conservation techniques of natural resources.
C-15 Practical	**CO-1.** Microscopic observation of various microbes, ovules and pollen grains, tissue system **CO-2.** Pollen counting. **CO-3.** Study of Biodiversity. **CO-4.** Chromosome mapping **CO-5.** Observation of diseases and plant specimen The course has importance in the areas of academics, research, and employability
C-16 Advanced Plant Biotechnology	**CO-1.** Cell and tissue culture, ethno pharmacology, and ethno ecology. **CO-2.** Industrial application of microbial diversity, study of causal organism of plant pathogens and their control. **CO-3.** Fermentation technology, **CO-4.** Development of transgenic plants and microbes. **CO-5.** Role of transgenic microbes in production of medicines The course has importance in the areas of academics, employability and research.
C-17 Environmental Biotechnology	**CO-1.** Biofertilizers and their use. **CO-2.** Isolation, identification, purification, mass production of microorganisms used in biofertilizers, and also on quality control of commercial biofertilizers. **CO-3.** Biofertilizers applied aspects for the enhancement of soil fertility and crop productivity and ideal way for sustainable development. **The course has importance in the areas of academics, research, and employability.**
C-18 Phytomedicine	**CO-1.** Medicinal plants and their medicinal value. **CO-2.** Photochemical and their effects. **CO-3.** Importance of phytomedicines
C-19 Molecular Stress Biology	**CO-1.** Different types of stress **CO-2.** Stress sensing mechanism in plants **CO-3.** Signal transduction in plant
C-20 Environment and Waste Management	**CO-1.** Definition need and scope of Environmental biotechnology. **CO-2.** Biomass energy **CO-3.** Vermicompost, its importance and production **CO-4.** Waste management processes The course has importance in the areas of academics, research, and employability
C-21 Project, Seminar, Presentation, Scientific Visit	**CO-1.** Students will develop research attitude and scientific tempore. **CO-2.** Practical knowledge will enhance **CO-3.** Explore various places with full of research resources
C-22 Mushroom Cultivation	**CO-1.** Types of edible mushrooms and their medicinal values. **CO-2.** Pure culturing of mushrooms. **CO-3.** Storage methods of mushrooms **CO-4.** Preparation of food from mushrooms.

DEPARTMENT OF ZOOLOGY

Courses Outcomes B.Sc. Zoology

Course	COURSE OUTCOME
C-I **Non-Chordate I:** **Protista to** **Pseudocoelomates**	**CO-1.** Students will learn about importance of systematic, taxonomy, structural organization of the animals diversity of non-Chordates. **CO-2.** They will understand evolutionary history and relationships of different non-Chordates through functional and structural affinities. **CO-3.** They will be able to critically analyse organization, complexity and characteristic features of non-Chordates along with their significance and interactions with the environment. **CO-4.** The paper of Non-chordates will help them to enhance their collaborative learning and communication skills through discussions in the class group.
C-II **Principles of Ecology**	**CO-1.** After completion of this course students will Understand the population and community characteristics, ecosystem development and climax theories. **CO-2.** Knowledge about the types of ecosystems, food chains, food webs, energy models, and ecological efficiencies. **CO-3.** Capability to apply the basic principles of ecology in wildlife conservation and management. **CO-4.** It will impart them with the knowledge about the judicious use of existing ecological resources for sustainable development.
C-III **Non-Chordate II:** **Coelomates**	**CO-1.** Student learn the origin of multicellular organisms from unicellular eukaryotes **CO-2.** Students learn about the concept and diversity of Non-Chordata with an amphasis and distinction in reference to coelom (e.g. in first semester, protista to oseudocoelomates) **CO-3.** Students learn about how organisms are classified based in Non-Chordata on their complexity, organization and characters **CO-4.** Students learn about Specific features for any group of organisms in non-chordates and their identification
C-IV **Cell Biology**	**CO-1.** Illustrate that Cell being the fundamental structural unit defines the function of all living things. **CO-2.** Obtain knowledge of the structures and functions of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles. **CO-3.** Understand the cellular components underlying cell division.

	CO-4. Explain the communications of cells with other cells and to the environment.
C-V **Diversity of Chordates**	**CO-1.** Understand the evolutionary history and relationship between the different classes of chordates. **CO-2.** Know the different characteristics along with their habits, habitats, and distribution of the chordates. **CO-3.** Understand the significance of the differences in physiological systems between the vertebrates. **CO-4.** Distinguish the significance of the chordates from other lower organisms and comprehend their advantages.
C-VI **Physiology: Controlling and Coordinating Systems**	**CO-1.** Students' knowledge of the structure, function and regulation, of endocrine systems would be broadened . **CO-2.** The knowledge of the processes underlying male and female reproduction and fertility would be broadened. **CO-3.** Students' interest and passion. **CO-4.** The basics of tissue system will be well understood by the students.
C-VII **Fundamentals of Biochemistry**	**CO-1.** Interpret structure-functional relationships of carbohydrates, proteins and lipids. **CO-2.** Be familiar with enzyme, mechanism of action of enzymes; coenzymes, co-factors, Isozymes; kinetics of enzyme catalysed reactions and enzyme inhibitions and regulatory process. **CO-3.** Learn about basic laboratory techniques and equipments used in biochemistry. **CO-4.** Perform qualitative analysis to characterize properties of various biomolecules and determine the effect of pH and temperature on salivary enzyme.
C-VIII **Comparative Anatomy of vertebrates**	**CO-1.** Understand the pattern of vertebrate evolution, organisation, and functions of various systems. **CO-2.** Learn the comparative account of integument, skeletal components, their functions and modifications in different vertebrates. **CO-3.** Learn to analyse and critically evaluate the structure and functions of vertebrate systems, which helps them to discern the developmental, functional and evolutionary history of vertebrate species. **CO-4.** Understand the importance of comparative vertebrate anatomy to discriminate human biology
C-IX **Physiology: Life sustaining systems**	**CO-1.** Students would be able to know basic fundamentals and understand advanced concepts related to systems in the body and their controls. **CO-2.** They would be able to understand the connections between knowledge of Physiology in relation to environment. **CO-3.** They would be able to know the role of self-sustaining systems like circulatory, digestive, respiratory and

	excretory systems and how all of these work in unison to maintain a balance in the body. **CO-4.** They will understand the homeostasis of body.
C-X **Biochemistry of Metabolic Processes**	**CO-1.** Students will understand the processes in metabolism and regulation of metabolic pathways. **CO-2.** To understand the processes in metabolism and regulation of metabolic pathways. **CO-3.** To know in detail about concepts to illustrate how enzymes and redox carriers and the oxidative phosphorylation machinery occur. To get exposure to various processes of metabolism and quantification of many biomolecules.
C-XI **Molecular Biology**	**CO-1.** Have a deeper understanding of DNA, RNA structure, replication and repair mechanisms. **CO-2.** Demonstrate the deeper understanding of the mechanisms of post-transcriptional processing and the role of this process in control of gene expression. **CO-3.** Explain the interrelationship of DNA, RNA and protein synthesis and how these interactions are regulated. **CO-4.** Be able to explain how genetic information in the DNA is selectively expressed as functional proteins.
C-XI **Principles of Genetics**	**CO-1.** A thorough and in-depth understanding of the chemical basis of heredity. **CO-2.** The skills required to plan, carry out, and evaluate the outcomes of genetic experiments in animal model systems. **CO-3.** Develop the necessary communication skills in the discipline required for Oral presentations of research results, and poster presentations at conferences etc. **CO-4.** Understand the gene and environment interaction.
DSE-I **Animal Behaviour and Chronobiology**	**CO-1.** Understand types of animal behaviour and their importance to the organisms. **CO-2.** Relate animal behaviour with other subjects such as Animal biodiversity, Evolutionary biology, Ecology, Conservation biology and Genetic basis of the behaviour. **CO-3.** Learn about the biological rhythm and their application in pharmacology and modern medicine. **CO-4.** Realize, appreciate and develop passion to biodiversity; andy will respect the nature and environment.
DSE-II **Immunology**	**CO-1.** Describe the basic mechanisms, distinctions and functional interplay of innate and adaptive immunity. **CO-2.** Explain the cellular and molecular aspects of lymphocyte activation, homeostasis, differentiation, and memory. **CO-3.** Understand the molecular basis of complex, humoral (Cytokines, Complement) and cellular processes involved in inflammation and immunity, in states of health and disease. **CO-4.** Describe basic and state-of-the-art experimental methods and technologies Integrate knowledge of each subsystem

	to see their contribution to the functioning of higher level systems.
C-XIII **Developmental Biology**	**CO-1.** This course will help the students to understand the development of multicellular organisms from a single cell zygote. **CO-2.** Students will be able to appreciate the mechanisms that support growth and development. **CO-3.** Students will be able to appreciate the mechanisms that support growth and development. **CO-4.** It will help them to understand the concept of aging and the relevance of this knowledge in several medical applications.
C-XIV **Evolutionary Biology**	**CO-1.** Gain knowledge about the relationship of the evolution of various species and the environment they live in. **CO-2.** Use knowledge gained from study of variations, genetic drift to ensure that conservation efforts for small threatened populations are focused in right direction. **CO-3.** Acquire problem solving and high order analytical skills by attempting numerical problems as well as performing simulation studies of various evolutionary forces in action. **CO-4.** Get motivated to work towards mitigating climate change so that well adapted species do not face extinction as a result of sudden drastic changes in environment.
DSE-III **Fish and Fisheries**	**CO-1.** To understand classification, morphology and Physiology of fishes. **CO-2.** Will have knowledge on aquaculture and fish farming. **CO-3.** By This topics Student know about overview of commercial fishing & Sport fishing & also recent fish catch statistics. **CO-4.** Useful to know the characters of streams, riverine systems in India and their fishery.
DSE-IV **Project work**	**CO-1.** Students will learn the basics of research methodology. **CO-2.** will be able to plan a research design including the sampling, observational, statistical and operational design if any. **CO-3.** Students will be able to compile the relevant literature and frame hypotheses for research as applicable. **CO-4.** Students will be well versed with academic project report writing and presentation of the data.

Courses Outcomes M.Sc. Zoology

Course	Outcomes
ZOOL-101 **Animal Diversity (Non-Chordates and Chordates)**	**CO-1.** At the end of the course, the students will be familiar with the animal world that surrounds us. **CO-2.** They will be able to appreciate the process of evolution and see how it progressed from simple, unicellular cells to complex, multicellular organisms. **CO-3.** Students will be able to identify the invertebrates and vertebrates and classify them up to the class level. **CO-4.** Students have real knowledge on Animal diversity and interaction with environment.
ZOOL-102 **Cell Biology and Cancer Biology**	**CO-1.** At the end of this course, Students will be well acquainted with the membrane structure and composition, transport and trafficking, the cytoskeleton and cell movement. **CO-2.** The general mechanism of cell division and their regulation through different check points will be thoroughly understood. **CO-3.** The association between defect in cell cycle, apoptosis, signal transduction and cancer biology will be the land mark towards understanding different human diseases. **CO-4.** Students will be familiar with the various genetic and molecular changes occur in a normal cell during malignant transformation.
ZOOL-103 **Inheritance Biology**	**CO-1.** Students will have fundamental knowledge on genetics, its laws, genes and chromosomes, inheritance heredity, causes of genetic disorders and the methods of gene transfer **CO-2.** The course will able to explain the fundamentals of genetics and the Mendelian laws, the concept of alleles, concept of linkage and crossing over of genes. **CO-3.** The course will open an avenue to be familiar with a variety of types of genetic data (genotyping, expression, sequence data), chromosomal mapping, genetic composition of biological population and evolutionary factors that explain the variation. **CO-4.** How genetic information in the DNA is selectively expressed as functional proteins.
ZOOL-104 **Biostatistics and Taxonomy**	**CO-1.** The students will learn about key biostatistical concepts and efficient tools for summarizing and plotting data, make decisions in the presence of uncertainty. **CO-2.** A thorough understanding of the principle and practices of systematic, diversity and relationship in the animal world and to develop a holistic appreciation of the geological time scale, phylogeny and adaptation. **CO-3.** The course will provide knowledge of biostatistics approach used to analyze and presentation of data in biological research and other fields. **CO-4.** The course provides methodological background and quantitative skills in morphological and molecular phylogeny of taxonomy and systematic.

ZOOL-105 **Practical**	**CO-1.** Practical knowledge on Animal world. **CO-2.** Understanding the interaction and relationship of animal diversity with environment. **CO-3.** Hands on practice on preparation and identification of different stages of mitosis and meiosis. **CO-4.** Practical knowledge and application of statistics will be studied.
ZOOL-201 **Biophysical Chemistry and Biochemistry**	**CO-1.** Will learn the biophysical properties and functioning of life processes. **CO-2.** Will understand the structure and metabolism of biologically significant molecules. **CO-3.** Demonstrate knowledge of the fundamental concepts in physical chemistry that underlies biological processes. **CO-4.** The course will provide an understanding of fundamental biochemical principles such as biomolecules, metabolic pathway and regulation of biological process.
ZOOL-202 **Enzyme Technology and Microbiology**	**CO-1.** Will provide knowledge on nomenclatures and characteristics of enzymes, mechanism of enzyme action, their kinetics and various application of enzymes **CO-2.** The learners will be able to describe the enzyme kinetics, production, purification, and immobilization of enzymes **CO-3.** The course will be able to describe the structure of bacterial cells, the form, arrangement, and replication of genetic material within a bacterial cell. **CO-4.** Role of microbes in the environment will be understood.
ZOOL-203 **Molecular Biology**	**CO-1.** Provide comprehensive idea about the structure and function of nucleic acids and regulation of gene expression. **CO-2.** The course will open an avenue to be familiar with a variety of types of genetic data (genotyping, expression, sequence data), chromosomal mapping, genetic composition of biological population and evolutionary factor that explain the variation. **CO-3.** An in-depth knowledge of chemical and molecular processes that occur in between cell including the central dogma will be assured at the end of this course **CO-4.** The genetic make up and underlying molecular mechanism will be explored by the students.
ZOOL-204 **Animal Physiology and Endocrinology**	**CO-1.** Understanding the fundamental scientific concepts relating to a broad range of topics in animal physiology and Endocrinology. **CO-2.** Will provide basic understanding of different physiological systems and their interaction to maintain Homeostasis. **CO-3.** The course will provide detailed knowledge on the various physiological organ-systems and their importance to the integrative functions of the human body **CO-4.** The students will be able to compare and contrast endocrine and nervous control systems. Students will be able to name the key events involved in signaling by hormones, infertility and birth control measures.

ZOOL-205 **Practical**	**CO-1.** Practical knowledge on physiology will be enhanced. **CO-2.** Enzyme and enzyme technology will be denstrated practically. **CO-3.** Techniques related to molecular biology will be studied thoroughly. **CO-4.** gap between theory and practical will be well studied.
ZOOL-301 **Immunology**	**CO-1.** To understand the immune system with respect to origin, development and structure. **CO-2.** To understand the underlying complexities and mechanism of different immune reactions. **CO-3.** This course will describe the immune systems of vertebrates that enable them to recognize and respond specifically to foreign substances **CO-4.** The students will be able to understand the roles of antigens, antibodies and immunocompetent cells in pathogenesis and immunity to infectious diseases.
ZOOL-302 **Developmental Biology and Animal Biotechnology**	**CO-1.** Knowledge on the basic concept and experimental aspects of developmental biology **CO-2.** The course will provide a broad area from embryology to developmental biology **CO-3.** The students will be able to apply their understanding of embryonic development and postembryonic development. **CO-4.** On successfully completion of this course the students will be able to understand step-by-step methods of cell culture and its application in research.
ZOOL-303 **Bioinstrumentation**	**CO-1.** Familiar with the tools and techniques available for studying biochemical and biophysical nature of life **CO-2.** The structural characteristics of nucleic acids and proteins and examine parameters that variously determine their stability and function(s). **CO-3.** The principles that govern biomolecular interactions and appreciate how established methods of research and enquiry are employed to analyze the different aspects of these interactions. **CO-4.** The learners will understand the tools and techniques used in biological research.
ZOOL-304 **Evolution and Animal Behaviour**	**CO-1.** Understanding the evidence that living species share descent from common ancestry and how this fact explains the traits of living species **CO-2.** The students will able to demonstrate an understanding of key concepts in evolutionary biology, the history of life on earth, and phylogenetic relationships between organisms and of structure/function relationships in organisms. **CO-3.** To introduce animal behaviour taking an integrative approach that addresses animal behaviour from ethological, ecological and evolutionary aspects and to review the basic concepts of behaviour as a science.

	CO-4. The course will describe and explain the basic concepts of animal behaviour using two approaches – ethology and behavioural ecology. It gives a thorough idea about biological rhythm and instinct behaviour.
ZOOL-305 **Practical**	**CO-1.** Practical knowledge on immunological methods. **CO-2.** Developmental biology experiments will be through light on embryological aspects. **CO-3.** Hands on practice on instruments will be ensured. **CO-4.** A thorough practical knowledge on population genetics will be worked out.
ZOOL-401 **Genetic Engineering**	**CO-1.** Illustration on creative use of modern tools and techniques for manipulation and analysis of genomic sequences. **CO-2.** Exposure of students to application of recombinant DNA technology in biotechnological research **CO-3.** A sound knowledge on methodological repertoire allows students to innovatively apply these in basic and applied fields of biological research. **CO-4.** This course may be deemed as a foundation course serving as a platform for introduction of more advanced cutting-edge technologies that essentially are an amalgamation of basic techniques combined in diverse forms of modern applications.
ZOOL-402 **Ecology and Conservation Biology**	**CO-1.** The structure and function of ecological systems and explain how ecological systems work at different spatial and temporal scales. **CO-2.** Interaction of Organism with the environment and their conservation strategies will be understood. **CO-3.** The students will able to demonstrate an understanding of ecological relationships between organisms and their environment **CO-4.** Students will able to demonstrate an understanding of key concepts in evolutionary biology, the history of life on earth, and phylogenetic relationships between organisms and of structure/function relationships in organisms.
ZOOL-403-E-A **Environmental Biotechnology**	**CO-1.** Know the basic physiology of a microorganism and how their structure dictates their function in the environment. **CO-2.** Understand the bases for microbial metabolism of environmental contaminants. **CO-3.** Know various techniques to modify and augment microorganisms in the laboratory and environment. **CO-4.** Understand the principles of bioremediation, phytoremediation, and to know the basic design and application of microbial fuel.
ZOOL-403-E-B **Fisheries Science**	**CO-1.** This course will provide a comparative examination of selected freshwater and marine fishes. **CO-2.** Provide info influence of aquatic environments on life styles, behavioral patterns, physiological responses, population biology and community structure.

	CO-3. Acquire an in depth understanding of the unique feature of fishery biology. **CO-4.** The scope of study of fishery biology
ZOOL-404 **Project Report**	**CO-1.** Research aptitude, scientific temper and critical analysis among students will develop. **CO-2.** Students will gain the basic skill in project handling and writing of their project report, which will be helpful for them to be an independent scientist. **CO-3.** Literature survey will helpful the students to bee on touch with present era research. **CO-4.** The experience on cutting edge research will help the students to develop.
ZOOL-405w **Practical**	**CO-1.** Practical knowledge on ecology will enhance to study the environment. **CO-2.** Practical knowledge on fisheries science will enhance the idea on fishery resource. **CO-3.** Maintaining practical record will skill the students. **CO-4.** Practical knowledge will enhance the theoretical knowlege.

DEPARTMENT OF TEACHER EDUCATION (B.Ed. SELF-FINANCING)

Course Outcomes

COURSE OPTED	COURSE OUTCOME
C-1 **Education, School and Society**	**CO-1.** Student-teachers will able to state the narrow and broad meaning of education and form own concept on education. **CO-2.** Student-teachers will able to explain the foundations of education and the aims of education as recommended by different commissions education policies and educational thinkers **CO-3.** Student-teachers will able to state the relationship between school and education, school and community and among education society and culture. **CO-4.** Student-teachers will able to elaborate the linkage between education and national development.
C-2 **Childhood and Growing Up**	**CO-1.** Student-teachers will able to explain the concepts of growth and development of human child and the underlined general principles of growth and development. **CO-2.** Understand and describe briefly the periods and the typical characteristics of growth and development during each period. **CO-3.** Student-teachers will able state the different forms and characteristics of individual differences and the ways of meeting the classroom issues arising out of the differences. **CO-4.** Student-teachers will able identify the learning needs during the different stages of development and adopt appropriate strategies in and out of school to meet the learning needs.
C-3 **Learning and Teaching in Education**	**CO-1.** Student-teachers will able state the meaning, nature, dimensions and basic conditions of learning. **CO-2.** Student-teachers will able discuss the broad perspectives of behaviouristic, social cognitive and constructivist vies of learning and their educational implications. **CO-3.** Understand the process of learning as meaning making and the ways of facilitating meaningful learning in and out of the school. **CO-4.** Student-teachers will able employ the processes of teaching and managing classroom situations for meaningful learning.
C-4 **Contemporary Concerns in Education.**	**CO-1.** Student-teachers will able describe the prevailing social inequities, diversities and marginalization in India and their implication for education. **CO-2.** Student-teachers will able state the relevant Constitutional provisions, policy recommendations and the provisions in different acts relating to education specifically to school education. · **CO-3.** To develop a set of professional values required to address the issues and concerns through curricular, and co-curricular practices.

C-5 **Learning Assessment**	**CO-1.** To understand the nature, purpose and types of educational assessment and evaluation. **CO-2.** To understand and use different types of tools and techniques for continuous and comprehensive assessment of learning in the school situation. **CO-3.** To analyse the trends and issues in learning and learner assessment. **CO-4.** To analyse and interpret results of the assessment using rudimentary statistical methods.
C-6 **Pedagogy of School Subject Odia**	**CO-1.** To understand the importance and place of Odia as mother tongue in school curriculum. **CO-2.** To develop the strategies to address the problems of Odia language acquisition in multilingual context. **CO-3.** Use various strategies for facilitating the acquisition of language skills in Odia.
C-7 **Pedagogy of School Subject English**	**CO-1.** Student-teachers will able analyze the issues relating to importance and place of English in school objectives of learning English and language policy as conceived in NPE,1986 and NCF – 2005 **CO-2.** Student-teachers will able understand and use various methods, approaches and strategies for teaching-learning. **CO-3.** Plan appropriate pedagogical treatment of the prescribed contents for effective classroom transaction
C-8 **Pedagogy of School Subject Mathematics**	**CO-1.** Student-teachers will able narrate the evolution and nature of Mathematics and its importance in the school curriculum in the context of the recent curricular reforms. **CO-2.** Use various methods and approaches of teaching and learning mathematics especially suitable for the secondary school classes. **CO-3.** Plan lessons in Mathematics using traditional and constructivist approaches for effective classroom transactions.
C-9 **Pedagogy of School Subject Biological Science**	**CO-1.** To understand the nature and importance of Biological Science and its relevance in secondary school curriculum in context with recent curriculum reforms in School Curriculum. **CO-2.** To use various methods and approaches to teaching-learning Biological Science suitable for the secondary school classes. **CO-3.** Use appropriate tools and techniques for continuous and comprehensive assessment of learning in Biological Science.
C-10 **Fine Art/ Performing Art (Drama) /Performing**	**CO-1.** Student-teachers will demonstrate an understanding of the principles of design and composition, utilizing various mediums to create original works that reflect personal expression and technical skill. **CO-2.** Student-teachers will analyze and interpret dramatic texts, effectively portraying characters through voice, movement, and emotional expression, culminating in a public performance that demonstrates collaborative and individual artistic growth.

Art (Indian Music)	**CO-3.** Students will develop proficiency in performing traditional Indian musical compositions, demonstrating an understanding of ragas, talas, and the historical and cultural context of the music, through both solo and ensemble performances.
C-11 **Physical Education and Yoga**	**CO-1.** To understand the importance of Physical Education in Human life **CO-2.** Practice Yoga for peaceful and harmonious living
C-12 **Fruit and Vegetable Preservation**	**CO-1.** To develop economic values through fruit and vegetable preservation **CO-2.** Gain knowledge about fruit preservation industry **CO-3.** Gain knowledge about different type of preservatives for different type of preservation
C-13 **Spinning and Weaving**	**CO-1.** To develop a sense of appreciation towards Khadi **CO-2.** Understand the processing of cotton for Khadi **CO-3.** To master the skill of spinning and weaving
C-14 **Tailoring**	**CO-1.** To understand the different parts of the sewing machine and its maintenance **CO-2.** To develop skills in stitching, mending and cutting the garments · **CO-3.** To develop aesthetic and creative abilities through tailoring and design different garments.
C-15 **Woodwork**	**CO-1.** To understand different types of tools and their safe uses. **CO-2.** To develop skills in preparing wooden products like pointer, duster, blackboard, chair, and table stool etc. **CO-3.** To understand different types of timbers for preparing various finished products and process of protecting wooden materials.
C-16 **Internship School Internship**	**CO-1.** Developing professional capacities, teacher sensibilities and sustained engagement of student-teachers (prospective teachers) with learners and schools. **CO-2.** Equipping the student-teachers with required skills and competencies to cater to diverse needs of the learners in schools **CO-3.** Validating the theoretical understanding of the student-teachers developed through various perspective and pedagogic courses · **CO-4.** Enabling student-teachers to internalize the multifaceted role of a teacher as a facilitator, manager, innovator, evaluator, planner, mentor, counselor, community service provider, and developer/evaluator of curriculum and teaching materials.
C-17 **Knowledge and Curriculum**	**CO-1.** Understand and explain the nature of knowledge by describing the process of constructing knowledge **CO-2.** Differentiate different types of curriculum **CO-3.** Explain the processes and principles of curriculum planning development

	CO-4. Elaborate the transaction, evaluation and renewal processes of curriculum
C-18 **Educational Management**	**CO-1.** Student-teachers will able to spell out the structure of educational management at different levels - from national to institution level **CO-2.** Explain the implications of various policies and provisions in respect of educational management **CO-3.** Identify and utilize various resources for effective school functioning
C-19 **Creating an Inclusive School**	**CO-1.** Student-teachers will able to explain the changing concepts related to inclusive education. **CO-2.** Elaborate the different categories of children with special needs, their problems in schooling and need of inclusive education to address their educational problems. **CO-3.** State the barriers of inclusion in the existing schools. **CO-4.** Describe the process of developing an inclusive school
C-20 **Gender, School and Society**	**CO-1.** Student-teachers shall State the key concepts related to the gender issues. **CO-2.** Identifies key gender issues in school, curriculum, textbooks and pedagogical process. **CO-3.** Understands the ways to address gender issues in and out of school context.
C-21 **Action Research**	**CO-1.** To understand the concept, need and importance of action research and its differences with the pure and applied researches in Education. **CO-2.** Conduct action research selecting and using the appropriate methods **CO-3.** Follow the approved format and style in reporting the action research **CO-4.** Evaluate an action research project in terms of it's of its objectives, processes and implications.
C-22 **Language Across the Curriculum**	**CO-1.** To identify the language backgrounds of students and facilitate their movement from home / regional language to standard language. **CO-2.** To analyze the nature of classroom discourse and devise strategies to improve communication skills of students. **CO-3.** Develop the appropriate skills of reading and writing among the learners and facilitate reading writing connection. **CO-4.** Student-teachers shall envision their role as facilitators of learners' language enrichment irrespective of the subjects they teach.
C-23 **Guidance and Counselling**	**CO-1.** State the concept, need and principles of guidance. **CO-2.** Explain the role of school in organizing different guidance programmes.

	CO-3. Use various tools and techniques of guidance in appropriate contexts. **CO-4.** Narrate the process, tools and techniques of counseling.
C-24 **Pedagogy of School Subject History and Pol.Sc**	**CO-1.** Student-teachers shall able to state the meaning, scope and importance of History and Political Science **CO-2.** Identify the different methods and skills of teaching History and Political Science for transacting the contents effectively. **CO-3.** Prepare Unit Plans and Lesson Plans in History and Political science **CO-4.** Develop diagnostic achievement test, administer them and analyse the results for providing feedback
C-25 **Pedagogy of School Subject Geography**	**CO-1.** State the importance of teaching and learning of Geography at the secondary level. **CO-2.** Use appropriate teaching methods and strategies while facilitating learning of Geography. **CO-3.** Develop lesson plans for effective teaching and learning of Geography **CO-4.** Develop appropriate tools and techniques for comprehensive assessment of learning in Geography.
C-26 **Pedagogy of School Subject Physical Science**	**CO-1.** State the nature and importance of physical science and its relevance in secondary school curriculum. **CO-2.** Use various methods and approaches to teaching-learning Physical Science suitable for the secondary school classes. **CO-3.** Plan lessons in physical science for effective classroom transactions. **CO-4.** Use appropriate tools and techniques for continuous and comprehensive assessment of learning in Physical Science.
C-27 **Critical Understanding of ICT**	**CO-1.** Develop proficiency in using ICT tools and platforms, integrating technology into educational and professional practices. **CO-2.** Design and implement innovative ICT-based solutions to enhance educational outcomes and create engaging learning experiences. **CO-3.** Utilize ICT for continuous professional development, engage with online learning communities, and stay updated with emerging technologies and trends.
C-28 **Understanding the Self**	**CO-1.** Student-teachers will understand the interconnectedness of the Self with Nature, other selves, and the Universe. **CO-2.** Recognize the responsibility for the holistic development of oneself and one's pupils, including physical, cognitive, social, emotional, aesthetic, moral, and spiritual aspects. **CO-3.** Appreciate the commonality and uniqueness in Nature and human nature, embracing equality and contributing to mental evolution.

INTERNSHIP **School Internship Part-II**	**CO-1.** Develop professional capacities, teacher sensibilities, and sustained engagement with learners and schools. **CO-2.** Equip student-teachers with skills and competencies to meet diverse learner needs. **CO-3.** Validate theoretical understanding through perspective and pedagogic courses. **CO-4.** Enable student-teachers to internalize the multifaceted role of a teacher as a facilitator, manager, innovator, evaluator, planner, mentor, counselor, community service provider, and curriculum developer/evaluator.
OUTRECH ACTIVITIES	**CO-1.** Develop understanding of community needs and social issues through active participation in community service projects, fostering social responsibility and civic engagement. **CO-2.** Demonstrate effective collaboration and leadership by working with community members, peers, and local organizations to plan and execute activities that promote educational development and community well-being.

PG DEPARTMENT OF COMMERCE

Programme Specific Outcomes (PSO)

PSO Number	Upon completion of B.Com Degree Programme the graduates will be able to:
PSO 1	Apply different concepts in starting and managing business and realize the social responsibilities, social realities and inculcate an essential value system
PSO 2	Solve problems related to employer, employee, investors and consumers with legal protection
PSO 3	Prepare financial statements of business using accounting principles, concepts ,conventions and provisions
PSO 4	Develop necessary professional knowledge and skills in finance and taxation
PSO 5	Implement traditional and modern strategies and practices of costing, banking, economics, marketing, management, auditing and taxation
PSO 6	Practice different techniques of communication and apply it in business and profession
PSO 7	Use mathematical and statistical tools in academics, business and research
PSO 8	Develop competency in students to make them employable in the global market
PSO 9	Develop the skills of students to equip themselves as successful entrepreneurs
PSO 10	Enhance practical knowledge to prepare various accounts in order to meet the national requirements

Course outcome of B.Com.

Semester / Paper	Subject	Paper Code	Upon completion of this course, the student will be able to:
1.1	Communicative English/MIL	AECC -1	**CO-1.** Develop communication skills and use of electronic media in business communication **CO-2.** Learn the way to overcome communication barriers **CO-3.** Practice modern forms of communication **CO-4.** Formulate job related communication and resume preparation
1.2	Financial Accounting	CORE-I	**CO-1.** Understand the accounting principles, concepts and conventions and identify various subsidiary books in accountancy. **CO-2.** To develop among the students a conceptual understanding of the fundamentals of financial accounting system and to equip them with basic skills for recording various types of business transactions. **CO-3.** To help the students to acquire the conceptual knowledge of accounting and to help them to learn the techniques of preparing the financial statements. **CO-4.** Understand the various methods of calculating depreciation.
1.3	Business Law	CORE-II	**CO-1.** Understanding various aspects of Law related to business **CO-2.** Understand the law and procedure of the contracts **CO-3.** Get an idea about various kinds of agencies and bailment and pledge **CO-4.** To know the provisions of various acts i.e. Consumer Protection Act, RTI Act, Partnership Act, Negotiable instrument Act •
1.4	Micro Economics	GE-I	**CO-1.** To provide students' knowledge of Micro Economic concepts and inculcate an analytical approach to the subject matter. **CO-2.** To arouse the students interest by showing the relevance and use of variouseconomic theories. **CO-3.** To apply economic reasoning to solve business problems.
2.1	Environmental Science	AECC-2	**CO-1.** Understand the definition, scope and importance of natural resources and associated problems **CO-2.** Understand the concept of ecosystem and different types of ecosystem, biodiversity and its conservation **CO-3.** Understand causes, effects and control measures of environmental pollution

			CO-4. Understand the social issues and the various law to protect environment
2.2	Cost Accounting	CORE- III	**CO-1.** Basic knowledge of cost concepts and accounting procedure in manufacturing concerns. **CO-2.** Understand various costing systems/Methods **CO-3.** Evaluate the costs and benefits of different conventional and contemporary costing system **CO-4.** To be able to prepare cost sheet **CO-5.** Learn about the treatment of various factors of production i.e. material labour and overhead
2.3	Corporate Law	CORE-IV	**CO-1.** Basic knowledge of the provisions of the Companies Act, 2013 and the Depositories Act, 1996 **CO-2.** To acquire knowledge about the legal framework and the ways and means to deal with the legal aspect of different situations of corporate sector
2.4	Macro & Indian Economy	GE-II	**CO-1.** To familiarize the students with the basic concept of macroeconomics and itsapplication. **CO-2.** To make students aware of Gross National Product (GNP), Net National Product (NNP), Income at Factor cost or National Income at Factor Prices, Per Capital Income, Personal Income (PI), Disposable Income, etc. **CO-3.** To Study the relationship among broad aggregates. **CO-4.** To apply economic reasoning to solve the problems of the economy.
3.1	Corporate Accounting	CORE-V	**CO-1.** To make the students familiarize with Corporate accounting procedure and to understand the accounting for Companies as per the Accounting Standards. **CO-2.** To help the students to acquire the conceptual knowledge of Corporate Accounting, and to help them to learn the techniques of preparing the financial statements. **CO-3.** To know the accounting treatment of various situations viz. floating of shares, amalgamation and liquidation of companies
3.2	Income-tax Law and Practice	CORE-VI	**CO-1.** Knowing changes in rules, regulations from time to time and submit Income tax returns. **CO-2.** To give the students the basic idea about the theoretical aspects of income tax in India, and to give an idea about the computation of income under different heads. **CO-3.** Understand the meaning of person, assessee, previous year, assessment year, total income **CO-4.** Identify the residential status and incidence of tax and solve problems

			CO-5. Compute taxable income from salary, house property **CO-6.** Understand the meaning of business and profession and compute taxable income
3.3	Management Principles and Application	CORE-VII	**CO-1.** Develop knowledge about management Principles **CO-2.** Have a better understanding of planning and decision-making process **CO-3.** Give an idea about organisation, departmentation and delegation **CO-4.** Familiarise with directing, motivation theories, communication process and leadership **CO-5.** To be able to apply management theories in solving business problems
3.4	Business Statistics	GE-III	**CO-1.** Acquainting the students with basic knowledge of Statistical methods **CO-2.** Explain the primary concepts of statistics, data collection, sampling and tabulation **CO-3.** Understand the concepts of measures of central tendency and solve problems **CO-4.** Understand the various measures of dispersion and solve related problems **CO-5.** Develop the ability to solve problems in correlation and regression analysis **CO-6.** Calculate the index numbers and understand the concept of time series and their application
3.5	E-Commerce	SEC-1	**CO-1.** To understand the concept of E-Commerce and Describe the opportunities and challenges offered by E-Commerce. **CO-2.** To know the introduction of Internet and the evolution of the Internet. **CO-3.** To able to handle electronic payment technology and requirements for internet based payments . **CO-4.** To know the Conceptual learned concept of online shopping and models of Electronic market and internet security, digital signature.
4.1	GST and Indirect Taxes	CORE-VIII	**CO-1.** Enabling the student to understand the importance of Indirect taxes (GST) in India & other countries, it's contribution to speed up the economic development **CO-2.** To provide knowledge about goods service tax and create employability to the students in the commercial tax practices. **CO-3.** To understand the procedure for registration, payment and refund of GST. **CO-4.** To know tax related with movement of goods **CO-5.** To understand the appeals, offences and penalties with respect to GST
4.2	Fundamentals of Data	CORE-IX	**CO-1.** To understand the students MS Word and its components

	Management		**CO-2.** To know the students about MS-PowerPoint and custom animation **CO-3.** To attain the enter and edit Formula in MS-Excel **CO-4.** To make the students in Chart creation using and MS Access: Creating a Simple Database and Tables
4.3	Management Accounting	CORE-X	**CO-1.** Understand the objectives and functions of management accounting **CO-2.** Evaluate the financial position by using ratios **CO-3.** Evaluate the financial position of a concern through cash flow statement **CO-4.** Learn about the applications in Marginal Costing. **CO-5.** Identify the capital budgeting decisions **CO-6.** Understand the concepts of budgeting and budgetary control **CO-7.** Estimate the future by applying standard costing technique
4.4	Principles of Marketing	GE-IV	**CO-1.** Understand the Modern marketing concepts **CO-2.** Providing knowledge about marketing mix, segmentation, targeting and positioning. **CO-3.** Get clear idea of product planning, Diversification, Elimination and pricing strategies. **CO-4.** Summarize marketing of consumer goods, channels of distribution.
4.5	Entrepreneurship Development and Business Ethics	SEC-2	**CO-1.** Understand the functions of entrepreneur and its qualities **CO-2.** Understand various dimensions of entrepreneurship **CO-3.** Express the contemporary role models in Indian Business **CO-4.** Identify the sources of mobilizing resources to start the business
5.1	Computerized Accounting& E-filling of Tax Returns	CORE-XI	**CO-1.** To make students familiar with the computer environment. **CO-2.** To make students aware of accounting packages like tally. **CO-3.** To develop skills among students in applications of the internet in commerce education. **CO-4.** To educate students about the process of filing online income tax returns.
5.2	Fundamentals of Financial Management	CORE-XII	**CO-1.** Familiarize the students with the financial operations of a business. **CO-2.** To build up the capability of students to know Business Finance concepts and operations.

			CO-3. To make the students aware of various financial decisions like investing, financing and dividend decisions. **CO-4.** To educate about various methods and tools for evaluating alternatives and decision-making.
5.3	Financial Markets, Institutions & Services	DSE-I	**CO-1.** This course enables the students to gain practical knowledge and tactics in the financial market. **CO-2.** To study and critically analyze the basic concepts and trends in Financial Institutions. **CO-3.** To aware of the recent changes in the field of financial market. **CO-4.** To enable the students to understand the financial institutions operating in India and the services they provide. **CO-5.** The students will be able to understand the role and benefits of financial institutionand services.
5.4	Financial Statement Analysis and Reporting	DSE-II	**CO-1.** To enable the students to understand the basic knowledge about the financialstatement analysis and reporting for economic decision making. **CO-2.** To interpret corporate annual reports and accompanying notes in addition to themanagement discussion and analysis as well as the independent auditor's reportso that students are able to assess the efficiency and effectiveness of operations. **CO-3.** To enhance analytical and critical thinking skills for Accounting and Managerialgraduates so that students can apply financial statement analysis to assess a business's solvency, profitability, liquidity, and debt paying ability.
6.1	Auditing and Corporate Governance	CORE-XIII	**CO-1.** Gain knowledge about auditing, audit programmes, working papers and preliminaries before audit. **CO-2.** Analyse about implementing internal check and internal control in concerns. **CO-3.** Understand the various aspects of vouching. **CO-4.** Learn how to verify and value various assets and liabilities **CO-5.** Evaluate the traits of Company Auditor and how to draft Auditors Report
6.2	Business Mathematics	CORE-XIV	**CO-1.** Develop an idea about number systems, equations and solve problem on differentiation and integration **CO-2.** Familiarise with the laws of indices and logarithm and their application

			CO-3. Know the various concepts like distance, slope, equation of straight line and their application in business **CO-4.** Have a clear idea about matrices properties and solve problems **CO-5.** Understand the concepts of simple interest, compound interest, discount, depreciation and their application in real life situations
6.3	Fundamentals of Corporate Tax Planning	DSE-III	**CO-1.** To provide a conceptual idea about the various provisions of tax planning relatedto corporate sector. **CO-2.** After completion of this paper, students will be able to help tax consultants in taxplanning, assessment and filing income tax returns of corporate sector, therebythey can get themselves self-employed.
6.4	Business Research Methods and Project work	DSE-IV	**CO-1.** Analyse the significance, types and criteria of good research. **CO-2.** Understand various research designs. **CO-3.** Evaluate the various types of sampling designs. **CO-4.** Gain knowledge on date collection and guide lines for constructing questionnaire and schedule. **CO-5.** Gain knowledge on interpretation and report writing. **CO-6.** Gain practical experience on preparation of research project

Course Outcomes B.Com.

Semester / Paper	Subject	Paper Code	Upon completion of this course, the student will be able to:
1.1	Principles of Management and Organisational Behaviour	MCO 101	**CO-1.** To expose the student to the basic concepts of management in order to aid the student in understanding how an organization functions, and in understanding the complexity and wide variety of issues managers face in today's business firms. Discuss the various concepts of planning, decision making and controlling to help solving managerial problems. **CO-2.** To enhance the understanding of the dynamics of interactions between individual and the organization. To facilitate a clear perspective to diagnose and effectively handle human behaviour issues in Organizations. To develop greater insight into their own behaviour in interpersonal and group, team, situations.

1.2	Accounting for Managerial Decisions	MCO 102	**CO-3.** To enable students to acquire sound knowledge of concepts, methods, and techniques of management accounting. **CO-4.** To make the students develop competence with their usage in managerial decision making and control.
1.3	Quantitative Techniques	MCO 103	**CO-1.** To make better decisions in complex scenarios by the application of a set of advanced analytical methods. It couples theories, results and theorems of mathematics, statistics and probability with its own theories and algorithms for problem solving.
1.4	Economics for Managers	MCO 104	**CO-1.** To understand the relative importance of Managerial Economics. This course develops managerial perspective to economic fundamentals and aids to decision making under given environment. It will help to understand the modern managerial decision rules and optimization techniques. The participants can learn the tools necessary in analysis of consumer behaviour as well as in forecasting product demand.
1.5	Computer Application in Business	MCO 105	**CO-1.** To provide an orientation about the increasing role of management information system in managerial decision making to gain competitive edge in all aspects of Business. **CO-2.** To provide an understanding of computers, computer operating system, and application of relevant software in managerial decision making.
2.1	Emerging Business Law	MCO 201	**CO-1.** To acquaint the students with knowledge & understanding of emerging business Laws.
2.2	Business Environment	MCO 202	**CO-1.** To develop understanding and provide knowledge about business environment to the management students. **CO-2.** To promote basic understanding on the concepts of Business Environment and to enable them to realize the impact of environment on Business. **CO-3.** To provide knowledge about the Indian and international business environment.
2.3	Marketing Management	MCO 203	**CO-1.** To develop and understanding of the underlying concepts, strategies and issues involved in the marketing of products and services.
2.4	Financial Management	MCO 204	**CO-1.** To acquaint the students with the broad framework of financial decision making in a business unit.
2.5	Research Methodology	MCO 205	**CO-1.** To equip the students with the basic understanding of the research methodology and to provide an insight into the application of modern

			analytical tools and techniques for the purpose of management decision making.
3.1	E-Commerce	MCO 301	**CO-1.** To enable students gain knowledge about E-commerce and its various components.
3.2	Financial Institutions and Markets	MCO 302	**CO-1.** To providing students with an understanding of the structure, organization and Working of financial markets and institutions in India
3.3(A)	Corporate Tax Planning	MCO 303(A)	**CO-1.** To familiarize the student with major latest provisions of the Indian tax laws and related judicial pronouncements pertaining to corporate enterprises having implications for various aspects of Corporate planning with a view to derive maximum possible tax benefits admissible under the law.
3.4 (A)	Accounting Theory and Practice	MCO 304 (A)	**CO-1.** To provide the knowledge of accounting theory based on conceptual framework of accounting theory and also the critical thinking skills necessary to analyse and interpret accounting related transactions in accordance with accounting theory, and the financial reports generated by the accounting system.
3.5 (A)	Corporate Reporting and Analysis	MCO 305 (A)	**CO-1.** To familiarise with recent developments in the area of corporate reporting. **CO-2.** To gain ability to solve corporate reporting problems
3.3 (F)	Advanced Financial Management	MCO 303 (F)	**CO-1.** To enable and equip the students with the advanced functions and tools of financial management.
3.4 (F)	International Financial Management	MCO 304 (F)	**CO-1.** This course helps students understand the conceptual framework of International Finance and use thereof in making financial decisions.
3.5 (F)	Security Analysis and Portfolio Management	MCO 305(F)	**CO-1.** To improve the skills for taking intelligent investment decisions and managing them in a rational and systematic manner. **CO-2.** It also provides a sound intellectual framework for taking investment decisions.
3.3 (M)	Services Marketing	MCO 303 (M)	**CO-1.** To develop an understanding of services and service marketing with emphasis on various aspects of service marketing which make it different from goods marketing.
3.4 (M)	Advertising and Sales Promotion Management	MCO 303 (M)	**CO-1.** To acquaint the students with concepts, techniques for promotion if sales. **CO-2.** To give experience in the application of concepts for developing an effective advertising programme.
3.5 (M)	Consumer Behaviour	MCO 303 (M)	**CO-1.** To develop an understanding about the consumer decision making procedure and its application in marketing of firms.

4.1	Strategic Management	MCO 401	**CO-2.** To enable the learners to understand new forms of Strategic Management concepts and their use in business. **CO-3.** To provide information pertaining to Business, Corporate and Global Reforms. **CO-4.** To acquaint the learners with recent developments and trends in the business corporate world.
4.2	Business Ethics and Corporate Governance	MCO 402	**CO-1.** To familiarize students with the knowledge of ethics emerging trends in good governance practice and corporate social responsibilities in global & Indian context.
4.3	Dissertation and Viva VoceMathematics	MCO 403	**CO-1.** To help the student develop ability to apply multidisciplinary concepts, tools, and techniques to solve organisational problems. The project may be from any of your areas preferably of specialisation area.
4.4 (A)	Advanced Accounting	MCO 404 (A)	**CO-1.** To expose students to advanced accounting issues and practices students should learn advance treatment only to the given chapters in the source.
4.5 (A)	International Accounting	MCO 405 (A)	**CO-1.** To acquaint the students with the accounting needs of international financial markets and to analyse the accounting measurement and reporting issues unique to multinational business transactions.
4.4 (F)	Financial Risk Management and Derivatives	MCO 404 (F)	**CO-1.** To the application of various tools and techniques of financial risk management.
4.5 (F)	Project Management	MCO 405 (F)	**CO-1.** To understand the framework for evaluating capital expenditure proposals, their planning and management in the review of the projects undertaken.
4.4 (M)	Sales and Distribution Management	MCO 404 (M)	**CO-1.** To acquaint the students with the concepts which are helpful in developing a sound sales and distribution policy and in organising and managing sales force and marketing channels.
4.5 (M)	Retail Business Management	MCO 405 (M)	**CO-1.** The course will focus on manufacturers' perspective on retailers and understanding of the retail business.

P.G. Department of Economics

COURSE OUTCOMES

BA-ECONOMICS (HONS)

Core Paper I: INTRODUCTORY MICROECONOMICS

This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations.

Core Paper II: MATHEMATICAL METHODS FOR ECONOMICS I

This is the first of a compulsory two-course sequence. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.

Core Paper III: INTRODUCTORY MACROECONOMICS

This course aims to introduce the students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments.

Core Paper IV: MATHEMATICAL METHODS FOR ECONOMICS II

This course is the second part of a compulsory two-course sequence. This part is to be taught in Semester II following the first part in Semester I. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this Syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.

Core Paper V: MICROECONOMICS I

The course is designed to provide a sound training in microeconomic theory to formally analyze the behavior of individual agents. Since students are already familiar with the quantitative techniques in the previous semesters, mathematical tools are used to facilitate understanding of the basic concepts; this course looks at the behavior of the consumer and the producer and also covers the behavior of a competitive firm.

Core Paper VI: MACROECONOMICS I

This course introduces the students to formal modeling of a macro-economy in terms of analytical tools. It discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of

policy in this context. It also introduces the students to various theoretical issues related to an open economy.

Core Paper VII: STATISTICAL METHODS FOR ECONOMICS

This is a course on statistical methods for economics. It begins with some basic concepts and terminology that are fundamental to statistical analysis and inference. It is followed by a study and measure of relationship between variables, which are the core of economic analysis. This is followed by a basic discussion on index numbers and time series. The paper finally develops the notion of probability, followed by probability distributions of discrete and continuous random variables and introduces the most frequently used theoretical distribution, the Normal distribution.

Core Paper VIII: MICROECONOMICS II

This course is a sequel to Microeconomics I. The emphasis will be on giving conceptual clarity to the student coupled with the use of mathematical tools and reasoning. It covers Market, general equilibrium and welfare, imperfect markets and topics under information economics.

Core Paper IX: MACROECONOMICS II

This course is a sequel to Macroeconomics I. In this course, the students are introduced to the long run dynamic issues like growth and technical progress. It also provides the micro-foundations to the various aggregative concepts used in the previous course.

Core Paper X: Research Methodology

The course is to develop a research orientation among the students and to acquaint them with fundamentals of research methods. Specifically, the course aims at introducing them to the basic concepts used in research and to scientific social research methods and their approach. It includes discussions on sampling techniques, research designs and techniques of analysis.

Core Paper XI: INDIAN ECONOMY I

Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points. Given the rapid changes taking place in India, the reading list will have to be updated annually.

Core Paper XII: DEVELOPMENT ECONOMICS I

This is the first part of a two-part course on economic development. The course begins with a discussion of alternative conceptions of development and their justification. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models. The axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality are explored. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.

Core Paper XIII: INDIAN ECONOMY II

This course examines sector-specific polices and their impact in shaping trends in key economic indicators in India. It highlights major policy debates and evaluates the Indian empirical evidence. Given the rapid changes taking place in the country, the reading list will have to be updated annually.

Core Paper XIV: DEVELOPMENT ECONOMICS II

This is the second unit of the economic development sequence. It begins with basic demographic concepts and their evolution during the process of development. The structure of markets and contracts is linked to the particular problems of enforcement experienced in poor countries. The governance of communities and organizations is studied and this is then linked to questions of sustainable growth. The course ends with reflections on the role of globalization and increased international dependence on the process of development.

Discipline Specific Elective Paper-1:ECONOMIC HISTORY OF INDIA 1857-1947
This course analyses key aspects of Indian economic development during the second half of British colonial rule. In doing so, it investigates the place of the Indian economy in the wider colonial context, and the mechanisms that linked economic development in India to the compulsions of colonial rule. This course links directly to the course on India's economic development after independence in 1947.

Discipline Specific Elective Paper-2: INTRODUCTORY ECONOMETRICS
This course provides a comprehensive introduction to basic econometric concepts and techniques. It covers statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models. The course also covers the consequences of and tests for misspecification of regression models.

Discipline Specific Elective Paper-3: ODISHA ECONOMY
Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in Odisha in pre- and post-Independence period, with particular emphasis on paradigm shifts and turning points. Given the rapid changes taking place in Odisha, the reading list will have to be updated annually.

Discipline Specific Elective Paper-4:MONEY, BANKING AND FINANCIAL MARKET
This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.

Discipline Specific Elective Paper-5
PUBLIC ECONOMICS
Public economics is the study of government policy from the points of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution and stabilization. Inherently, this study involves a formal analysis of government taxation and expenditures. The subject encompasses a host of topics including public goods, market failures and externalities.

Discipline Specific Elective Paper- 1:Environmental Economics
This course introduces the students to the basics of environmental economics to understand the fundamentals of environmental concerns and develop insights into valuation of environment.

Discipline Specific Elective Paper-2:INTERNATIONAL ECONOMICS
This course introduces the students to international trade and finance to understand the theories of international trade and develop insights into trade policy and balance of payments. The course also develops insight into international financial system and the trade policy of India.

Discipline Specific Elective Paper-3: AGRICULTURAL ECONOMICS

This course introduces students to the significance of agriculture in the Indian economy and helps to understand the role agriculture in economic development. It is designed to develop insights into changing agricultural practices in India and assess the significance of agriculture in the era of liberalization.

Discipline Specific Elective Paper-4: HISTORY OF ECONOMIC THOUGHT

This course provides a perspective to our intellectual history, development of economic thought and helps relate this thought to the current thinking. It introduces the students to the philosophers and economists who developed economic reasoning and modeling of economic activities. It also helps create critical abilities and attitudes.

DSE Paper –4: DISSERTATION / RESEARCH PROJECT

The project is intended to establish the connection between Economics as confined to the text books and class rooms and Economics at play in the ground. It is expected to give an empirical content to the subject. Economics is defined as the study of mankind in the ordinary business of life. It studies individual as well as group behavior. Project work at the undergraduate level is an in-depth study on a topic chosen by the student. The objective of the project work for the students at undergraduate level is to expose students to the social and real world contexts in which the subjects taught in the classroom have applications.

Generic Elective Paper I: INDIAN ECONOMY

This paper introduces the students to the essentials of Indian economy with an intention of understanding the basic feature of the Indian economy and its planning process. It also aids in developing an insight into the agricultural and industrial development of India. The students will understand the problems and policies relating to the agricultural and industrial sectors of India and current challenges of Indian economy.

Generic Elective Paper II: INDIAN ECONOMY II

This paper is the part II of Indian economy deals with the external sector, financial markets in India, Indian Public Finances and Economic Reforms. This paper also throws some light on current challenges of Indian Economy.

Generic Elective Paper III: INTRODUCTORY MICROECONOMICS

This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situation.

Generic Elective Paper IV: INTRODUCTORY MACROECONOMICS

This course aims to introduce the students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments.

MASTER OF ARTS IN ECONOMICS

ECO-411: MICROECONOMIC THEORY-I

Course Outcomes CO-1	Remember and understand the basic concepts/Principles of **Micro Economics-I**
CO-2	Analyse the Various Concepts to understand them through case studies

CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-412: MACRO ECONOMIC THEORY-I

Course Outcomes CO-1	Remember and understand the basic concepts/Principles of **Macro Economics-I**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-413 STATISTICAL METHODS

Course Outcomes CO-1	Remember and understand the basic concepts/Principles of **Statistical Method-I**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-414 ENVIRONMENTAL ECONOMICS

Course Outcomes CO-1	Remember and understand the basic concepts/Principles of **Environmental Economics**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-415 INTERNATIONAL TRADE & FINANCE-I

CO-1	Remember and understand the basic concepts/Principles of **International Trade & Finance-I**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-421: MICROECONOMIC THEORY-II

CO-1	Remember and understand the basic concepts/Principles of **Micro Economic Theory-II**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-422: MACROECONOMIC THEORY-II

CO-1	Remember and understand the basic concepts/Principles of **Macro Economic Theory-II**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-423: QUANTITATIVE METHODS

CO-1	Remember and understand the basic concepts/Principles of **quantitative methods for Economics**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-424: INDIAN ECONOMY

CO-1	Remember and understand the basic concepts/Principles of **Indian Economy**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-425 INTERNATIONAL TRADE & FINANCE-II

CO-1	Remember and understand the basic concepts/Principles of **International Trade & Finance-II**
CO-2	Analyse the Various Concepts to understand them through case studies

CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-511: PUBLIC ECONOMICS-I

CO-1	Remember and understand the basic concepts/Principles of **Public Economics-I**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-512 GROWTH & DEVELOPMENT-I

CO-1	Remember and understand the basic concepts/Principles of **Growth & Development-I**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-513 MATHEMATICAL ECONOMICS-I

CO-1	Remember and understand the basic concepts/Principles of **Mathematical Economics-I**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-513 AGRICULTURAL ECONOMICS-I

CO-1	Remember and understand the basic concepts/Principles of **Agricultural Economics-I**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-514 ELEMETARY ECONOMETRICS

CO-1	Remember and understand the basic concepts/Principles of **Econometrics**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-514 HEALTH ECONOMICS

CO-1	Remember and understand the basic concepts/Principles of **Health economics**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-515 FINANCIAL INSTITUTIONS & MARKETS

CO-1	Remember and understand the basic concepts/Principles of **Financial institution and markets**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-515 HISTORY OF MODERN ECONOMIC ANALYSIS (Contribution of Nobel laureates in Economics)-I

CO-1	Remember and understand the basic concepts/Principles of **History of Modern Economic Analysis(Contribution of Nobel laureates in Economics)**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-515 RURAL ECONOMICS

CO-1	Remember and understand the basic concepts/Principles of **Rural economics**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-515 NEW INSTITUTIONAL ECONOMICS

CO-1	Remember and understand the basic concepts/Principles of **New institutional economics**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-521 PUBLIC ECONOMICS-II

CO-1	Remember and understand the basic concepts/Principles of **Public economics-II**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-522 GROWTH & DEVELOPMENT-II

CO-1	Remember and understand the basic concepts/Principles of **Growth & Development**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-523 MATHEMATICAL ECONOMICS-II

CO-1	Remember and understand the basic concepts/Principles of **Mathematical economics-II**

CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-523 AGRICULTURAL ECONOMICS-II

CO-1	Remember and understand the basic concepts/Principles of **Agricultural economics-II**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-524 ADVANCED ECONOMETRICS

CO-1	Remember and understand the basic concepts/Principles of **Advance econometrics**
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-524 ECONOMICS OF CLIMATE CHANGE

CO-1	Remember and understand the basic concepts/Principles Economics of climate change
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

ECO-524 DEMOGRAPHY

CO-1	Remember and understand the basic concepts/Principles Demography
CO-2	Analyse the Various Concepts to understand them through case studies
CO-3	Apply the knowledge in understanding practical problems
CO-4	Execute/create the Project or field assignment as per the knowledge gained in the course

PG DEPARTMENT OF HISTORY

BACHELORS OF ARTS COURSE OUTCOMES

SEMESTER – I

CORE PAPER – 1
– HISTORY OFINDIA-1

COURSE OUTCOMES : - This course aims to familiarize students with the historical background of ancient India, so they can place cultural events in the correct historical context. Students will demonstrate comprehension of the timeline, stories, important events, prominent individuals, and crucial junctures in Indian history from Early times to 1500 BCE.

CORE PAPER – 2
- SOCIAL FORMATIONS AND CULTURAL PATTERNS OF ANCIENT WORLD

COURSE OUTCOMES: - The goal of this course is to provide students with an overview of ancient world civilization. During this time, students will examine the societal, cultural, governmental, religious, and economic aspects of the civilization. By the end of the course, students should be able to show comprehension of the timeline, stories, important occurrences, influential individuals, and crucial junctures in ancient world civilizations.

SECOND SEMESTER

CORE PAPER – 3
HISTORY OF INDIA II

COURSE OUTCOMES: -This class aims to familiarize students with the historical developments in India from the 300 BCE to 750 BCE. Students will be able to analyze the reasons behind important events and their impact on the course of history. They will acquire a thorough grasp of the timeline, stories, notable occurrences, influential individuals, and pivotal moments in Indian's history from the 300 BCE to 750 BCE.

CORE PAPER – 4
SOCIAL FORMATIONS AND CULTURAL PATTERNS OF THE MEDIEVAL WORLD.

COURSE OUTCOMES :- The primary goals of this course are to investigate the reasons behind political and economical developments in medieval world. Rise and fall of different great heroes like Juliuos Caesar. Additionally, the course aims to analyze the factors leading to revolutionary thoughts and assess their long-term effects. It also seeks to explore conflicts between nations and evaluate their influence on contemporary issues. This course offers a comprehensive understanding of significant historical events in the medieval world history and allows for a deeper exploration of essential themes in medieval world history like rise of Christianity, the influence of medieval church, dominance of papacy.

THIRD SEMESTER

CORE PAPER – 5
_HISTORY OF INDIA –III (c.750-1206)
COURSE OUTCOMES:- In this class, students will learn about the sources of Indian History. Especially literary and archaeological sources. How does these sources help in reconstructing Indian history. How did the political structures get their evolutions. This paper also discuss the entry of Islaam in India . For the very first time the undergraduate student will come to know about different styles of temple architecture of India.
CORE PAPER – 6
-RISE OF MODERN WEST -1
COURSE OUTCOMES: - The aim of this course is to impart a comprehensive understanding of the fundamental informations on medieval Europe. This paper covers the transitional phase of Feudalism to Capitalism. Rise of modern West paper throws light on economic expansion, industrial production, trade and commerce, urban development, town life of modern Europe. The chapters also gives vivid descriptions on early colonial expansion and renaissance and reformation 15th century European people which generate curiosity among the students and make them smart enough.
CORE PAPER – 7

_ HISTORY OF INDIA -4 (c.1206-1526)

COURSE OUTCOMES: - This course aims to familiarize third-semester students with the Islamic culture of Indian Sultans. It also provides information on their political structures, their society, economy and religious life of the then period. Students will also get to know about how did the regional kingdoms were established. In this paper students will be benefitted by studying Allauddin Khilji's market policies which could be in their life too. How the Sufi and Bhakti movements shape the religious temperament of the people is also discussed in these chapters which could be a great benefit for the mental health of the students.

FOURTH SEMESTER

CORE PAPER – 8
_ RISE OF MODERN WEST -II
COURSE OUTCOMES :- The main goal of this course is to give students a wider understanding of modern European politics of the 17th century. This paper covers evolution of Parliamentary monarchy in England. It also discuss the American revolution, how it inspired the other countries to fight for their freedom.
CORE PAPER – 9
_ HISTORY OF INDIA –V (c.1526-1750)
COURSE OUTCOMES :- This course familiarizes students with the Mughal cultural traditions, their administrative measures. This paper also highlights the religious tolerance ,Sufi mystical and intellectual interventions. The Mughal art and architecture part also has been discussed in the paper which will make the students aware of their heritage.
CORE PAPER – 10
_ HISTORICAL THEORIES AND METHODS

COURSE OUTCOMES: - The goal of this course is to assist fourth-semester students in attaining proficiency and expertise in research theory and practice. This core objective can be achieved by supporting students in developing their research topics, promoting higher levels of intellectual capacity, critical analysis, rigor, and independent thinking, nurturing individual judgment, and proficiency in applying research theory and methods, as well as cultivating the skills necessary for writing research proposals, reports etc.

FIFTH SEMESTER

CORE PAPER – 11
-HISTORY OF MODERN EUROPE -1(c.1780-1880)
COURSE OUTCOMES: - The main goal of the course is to help students become knowledgeable in understanding the political rising in France. How the intellectual currents moulded the common people in favour of French revolution. It will make the students aware of the power of common men.

CORE PAPER – 12
_ HISTORY OF INDIA-VII (1750-1857)
COURSE OUTCOMES :- The purpose of this course is to offer a comprehensive understanding of significant changes occurred India due to the British East India Company's interference in internal administration . Upon finishing this course, students will gain a better grasp of the colonial ideology, which will aid in developing a solid understanding of British paramount over Indian subcontinent.

DISCIPLINE SPECIFIC ELECTIVE PAPER – I
_ HISTORY AND CULTURE OF ODISHA -I
COURSE OUTCOMES:- The purpose of this course is to offer a comprehensive understanding of the social structure of Odisha from ancient times to the present day. Upon finishing this course, students will have a broad understanding of the composition of the diverse and intricate societies that existed during different time periods**.**

DISCIPLINE SPECIFIC ELECTIVE PAPER – II
_ HISTORY AND CULTURE OF ODISHA -II
COURSE OUTCOMES: - This course aims to familiarize students with the Mughal-Afghan conflicts in Odisha. Why and how Mughal rule was established in Odisha. What was the political condition of Odisha during British occupation. Through this course, students will acquire comprehensive knowledge of the economic conditions of Odisha under different rulers. Students will learn to explain the causes and significance of major events and how changes occurred over time. They will gain a comprehensive understanding of the chronology, narratives, significant events, key figures, and crucial turning points in the history of Odisha from AD 1568 to 1947.

SIXTH SEMESTER

CORE PAPER – 13
-HISTORY OF INDIA-VIII (c.1857-1950)
COURSE OUTCOMES :- After completion of this course the students shall be able to outline key developments of the 18th century in the Indian subcontinent. They can explain the establishment of Company rule and important features of the early colonial regime. How and why different social reforms had been implemented. Students can able to know about Gandhiji, Subhash Chandra Bose and other renowned leader who are accountable for the independence of our country. What were reasons behind India and Pakistan's partition.

CORE PAPER - 14

HISTORY OF MODERN EUROPE –II (1880-1939)

COURSE OUTCOMES :- After completion of this course students will be able to analyse the historical developments in Europe between 1880-1939. As it focuses on the democratic & socialist foundations of modern Europe. They will be able to situate historical developments of socialist upsurge & the economic forces of the world wars, other ideological shifts and to analyse the factors behind the rising of Fascism and Nazism on the eve of the second world war.

DISCIPLINE SPECIFIC ELECTIVE PAPER-III

-HISTORY AND CULTURE OF ODISHA-III

COURSE OUTCOMES :- This class aims to familiarize students with the historical developments of religions in Odisha. Students will be able to analyze the reasons behind important events and their impact on the course of history. They will acquire a thorough grasp of the timeline, stories, notable occurrences, influential individuals, and pivotal moments in Odisha's history from the earliest period to modern period. This paper is also providing valuable information on Odishan temple architecture.

DISCIPLINE SPECIFIC ELECTIVE PAPER-IV

PROJECT AND VIVA

MASTERS OF ARTS COURSE OUTCOMES
SEMESTER – I

PAPER – H.4.1.1

– INDIAN CIVILIZATION (FROM 3RD MILLENNIUM BCE TO 1526 AD)

COURSE OUTCOMES : - 1. The course aims to familiarize students with the historical background of ancient and medieval India.

2. Students will learn to place cultural events in the correct historical context.

3. Students will demonstrate comprehension of the timeline, stories, important events, and prominent individuals in Indian history.

4. The course covers crucial junctures in Indian history from 3000 BCE to 1526 AD.

PAPER – H. 4.1.2

_ INDIAN CIVILIZATION (A.D 1526 – 1950)

COURSE OUTCOMES: - 1. The goal of this course is to provide students with an overview of Indian civilization from AD 1526 to 1950.

2. Students will examine the societal, cultural, governmental, religious, and economic aspects of the civilization during this period.

3. By the end of the course, students should be able to demonstrate comprehension of the timeline, stories, important occurrences, and influential individuals in Indian history from AD 1526 to 1950.

4. Students will also understand the crucial junctures in Indian history spanning from AD 1526 to 1950.

PAPER – H. 4.1.3

_ LANDMARKS IN ODISHA HISTORY (FROM 4TH CENTURY BCE TO 1568 A.D)

COURSE OUTCOMES : - 1. This class aims to familiarize students with the historical developments in the region from the 4th century BCE to AD 1568.

2. Students will be able to analyze the reasons behind important events and their impact on the course of history.

3. They will acquire a thorough grasp of the timeline, stories, notable occurrences, and influential individuals in Odisha's history from the 4th century BCE to AD 1568.

4. Students will also understand the pivotal moments in Odisha's history within this time period.

PAPER – H.4.1.4

_ LANDMARKS IN ODISHAN HISTORY (AD. 1568 TO 1950)

COURSE OUTCOMES: -

1. This course is designed to introduce students to the regional history from AD 1568 to 1950.
2. Students will learn to explain the causes and significance of major events and how changes occurred over time.
3. They will gain a comprehensive understanding of the chronology, narratives, significant events, and key figures in the history of Odisha from AD 1568 to 1950.
4. Students will also understand the crucial turning points in Odisha's history within this time period.

PAPER – H.4.1.5

_ ENTREPRENEURSHIP DEV. PROGRAMME

PAPER – H. 4.1.6

_ TERM PAPER & VIVA- VOCE

SECOND SEMESTER

PAPER – 4.2.1

_ WORLD IN 20TH CENTURY (AD. 1914- 1950)

COURSE OUTCOMES: -

1. The primary goals of this course are to investigate the reasons behind global exploration and to examine the impact of imperialism and colonialism on global interactions.
2. The course aims to analyze the factors leading to revolutionary and nationalist movements, and assess their long-term effects.
3. It seeks to explore present-day conflicts between nations and evaluate their influence on contemporary issues.
4. This course offers a comprehensive understanding of significant historical events in world history from AD 1914-1950 and allows for a deeper exploration of essential themes in modern world history.

PAPER – 4.2.2

_ WORLD IN 20TH CENTURY (A.D. 1950- 1995)

COURSE OUTCOMES: -

1. This course aims to investigate the reasons behind global exploration and analyze the impact of imperialism and colonialism on global interactions.
2. It seeks to examine the factors contributing to revolutionary and nationalist movements and assess their long-term repercussions.
3. Additionally, the course delves into the conflicts between nations up to the present day and evaluates their influence on contemporary issues.
4. It offers a comprehensive understanding of significant historical events in world history from A.D. 1950-1995, allowing for a deeper understanding of essential themes in the history of the modern world with greater depth and detail.

PAPER – 4.2.3

_ CONCEPT OF HISTORY AND HISTORIOGRAPHY

COURSE OUTCOMES: -

1. The main goal of this paper is to gain insight into historical writing throughout various time periods in the past.

2. It is crucial for individuals to be aware of the diverse trends in historical writing, particularly in light of present-day issues.
3. This course assists students in cultivating a critical mindset for comprehending historical events.
4. The course helps students evaluate historical events in a focused manner.

PAPER – 4.2. 4
_ RESEARCH METHODOLOGY
COURSE OUTCOMES: -

1. The goal of this course is to assist second-semester students in attaining proficiency and expertise in research theory and practice.
2. This objective can be achieved by supporting students in developing their research topics, promoting higher levels of intellectual capacity, critical analysis, rigor, and independent thinking, nurturing individual judgment, and proficiency in applying research theory and methods.
3. The course also focuses on cultivating the skills necessary for writing research proposals, reports, and dissertations.
4. By the end of the course, students will be capable of comprehending the fundamental aspects of various theories and philosophies utilized in historical interpretations, creating a research proposal, making decisions on suitable materials and analysis methods, and presenting research findings and processes in written and verbal forms.

PAPER – 4.2.5
_ INTER DICIPLINARY COURSE (ART & ARCHITECTURE)
COURSE OUTCOMES: - 1. The purpose of this class is to help second-semester students achieve mastery and skill in Indian rock art.
2. Students will gain proficiency in Harappan architecture.
3. The course covers the Ashokan school of art, as well as the Gandhara and Mathura schools of art.
4. Students will also study stupa architecture and rock art architecture.

THIRD SEMESTER

COMPULSORY PAPERS

PAPER – H 5.1.1
_ HERITAGE OF ART AND ARCHITECTURE IN INDIAN CONTEXT
COURSE OUTCOMES:-

1. Students will learn about the evolution and growth of art and architectural traditions within the cultural framework of the Indian subcontinent until the 10th century CE.
2. Monuments will be analyzed within their religious, regional, and stylistic settings.
3. This analysis will enable students to comprehend the significance of these monuments.
4. The course will provide insights into how these traditions fit into the broader cultural context of the Indian subcontinent.

PAPER – H 5.1.2
_ HISTORICAL APPLICATION IN TORISM (TOURISM PRINCIPLE AND PRACTICE)
COURSE OUTCOMES: -

1. The aim of this course is to impart a comprehensive understanding of the fundamental principles and practices in the field of the Tourism Industry.
2. Upon successful completion of the program, students will be equipped to choose a career path from various options within the tourism sector.

3. Alternatively, students will have the opportunity to advance to more advanced programs.
4. The course is designed to provide a solid foundation for both immediate career opportunities and further academic progression.

SPECIAL PAPER (A OR B OR C OR D)

A. ARCHAEOLOGY

PAPER – H 5.1.2. 3 (A)

_ ARCHAEOLOGICAL CULTURE AND SEQUENCE IN INDIAN PERSPECTIVE

COURSE OUTCOMES: - 1. This course aims to familiarize third-semester students with fundamental concepts and diverse methodologies in archaeology, highlighting their relevance in interpreting human history.
2. It introduces students to the definition, objectives, and scope of archaeology, along with its evolution as a field of study.
3. The course elucidates the nature of the archaeological record and the significant role of science in archaeology, and covers cultural sequences and diversities from the Lower Palaeolithic era to the development of civilizations.
4. It also addresses legislation pertaining to archaeology, ensuring students acquire a solid foundation in understanding the discipline and its value upon successful completion.

PAPER – H 5.1.4
_ INDIAN EPIGRAPHY

COURSE OUTCOMES:-
1. The main goals of this course are to inform students about the evolution of Brahmi and Kharoshthi scripts across various time periods.
2. The course aims to educate students about the significance of epigraphy as a historical source through the study of specific inscriptions.
3. Upon successful completion, students will have a solid foundation for understanding ancient Indian epigraphs.
4. The course provides essential knowledge for comprehending the historical and cultural context of these inscriptions.

B. MUSEOLOGY

PAPER – H. 5.1.3 (B)
_ INTRODUCTION TO MUSEOLOGY

COURSE OUTCOMES: -
1. This course aims to familiarize students with the role and operations of museums.
2. Emphasis is placed on the significance of museums in connecting archaeology and history with public education.
3. Students will learn about the fundamental roles of collection, documentation, and preservation in museums, as well as their activities such as conservation, education, and exhibition.
4. The course also covers legislation pertaining to museums and other major related topics.

PAPER – H. 5.1. 4 (B) INDIAN EPIGRAPHY
SAME AS H.5.1.4 (A) (INDIAN EPIGRAPHY) OF ARCHAEOLOGY SPECIAL PAPER

C: CULTURAL HISTORY OF INDIA

PAPER – H.5.1.3 (C)
_ SOCIAL STRUCTURE
COURSE OUTCOMES: -
1. This course aims to offer a comprehensive understanding of the social organization of India from the Indus Valley Civilization to the present day.
2. It covers the structure of various communities and societies throughout different historical eras.
3. Students will gain insights into the evolution of social organization over time.
4. Upon completion, students will possess a broad understanding of the diverse social structures that have existed in India's history.

PAPER – H.5.1.4 (C)
_ STATE OF ECONOMY
COURSE OUTCOMES:-
1. This course aims to familiarize students with the Economic History of India.
2. Students will explore the economic status of the Indian population from the Indus Valley Civilization to the present day.
3. The course provides insights into India's economic conditions across various time periods.
4. By the end of the course, students will have a comprehensive understanding of the evolution of India's economic conditions.

D: CULTURAL HISTORY OF ODISHA

PAPER – 5.1.3 (D)
_ STATE OF ECONOMY
COURSE OUTCOMES: -
1. This course aims to familiarize students with the Economic History of Odisha.
2. Students will gain an understanding of the economic status of the people of Odisha from the time of the Nandas to the present day.
3. The course will cover economic conditions in Odisha across various historical periods.
4. By the end of the course, students will acquire comprehensive knowledge of Odisha's economic evolution over time.

PAPER – 5.1.4 (D)
_ RELIGION
COURSE OUTCOMES :-
1. This course aims to provide students with an understanding of the Religious History of Odisha.
2. Students will explore the religious practices of the people of Odisha from the 7th century BCE to the present day.
3. The course covers the development of various religions in Odisha across different time periods.
4. By the end of the course, students will have a comprehensive understanding of the evolution of religious practices in Odisha.

PAPER – 5.1.5
_ COMPUTER APPLICATION IN HISTORICAL STUDIES
COURSE OUTCOMES:-
1. The aim is to impart a fundamental understanding of computer organization, operating systems, and application programs used in historical research.

2. Students will gain insight into computer system architecture and the categorization of computer operating systems.
3. The course will cover application programs relevant to historical studies.
4. Students will comprehend the idea and necessity of using computers to address, assess, and present data pertinent to historical research.

PAPER – H.5.1.6 – ENVIRONMENTAL STUDIES &DISTER MANAGEMENT

FOURTH SEMESTER

PAPER – H. 5.2.1
_ HERITAGE OF ART AND ARCHITECTURE IN ODISHAN CONTEXT
COURSE OUTCOMES :-
1. The main goal of this course is to provide students with a broader understanding of the architectural style of Odishan temples.
2. The course aims to familiarize students with the terminology, layout, and design of local temples.
3. It also seeks to educate students about the development of different religious groups supported by various dynasties.
4. Students will gain insights into changes in these religions as well as their regional and stylistic contexts.

PAPER – H. 5.2.2
_ HISTORICAL APPLICATION IN TOURISM (HISTORY AS TOURISM PRODUCT)
COURSE OUTCOMES: -
1. The course aims to explore cultural events and centres from a tourism perspective.
2. Students will examine various tourist attractions in India.
3. The program focuses on understanding the significance of these attractions within the tourism industry.
4. Upon completion, students will have a comprehensive understanding of India's tourist destinations and their cultural relevance.

SPECIAL PAPER (A OR B OR C OR D)

A. ARCHAEOLOGY

PAPER – H. 5.2.3 (A)
_ PRINCIPLES AND METHODS OF ARCHAEOLOGY
COURSE OUTCOMES :-
1. This course familiarizes students with the process of conducting archaeological research, from site identification to excavation and analysis of recovered evidence.
2. Instruction includes field techniques and excavation methods.
3. Students will learn practical methods involved in archaeological work.
4. The course provides hands-on experience in conducting archaeological research and analyzing findings.

PAPER – H. 5.2.4(A)
_ INDIAN NUMISMATICS
COURSE OUTCOMES :-
1. Numismatics will be discussed as a valuable source for understanding the history, origins, importance, and various currency systems of ancient Bulia.
2. The paper will explore the evolution of coinage.
3. Students will gain insight into how Numismatics serves as a prime historical source, capturing the origins, significance, and socio-political implications of coinage from that era.

4. This will provide a comprehensive understanding of the prevalent economic system in ancient India.

B: MUSEOLOGY

PAPER – H.5.2.3 (B)

_ MUSEUMS AND APPLICATION

COURSE OUTCOMES :-

1. The course aims to familiarize students with various organizations involved in museum work at both international and national levels.
2. Students will become acquainted with India's national-level museums, including their collections, exhibitions, educational programs, and public relations efforts.
3. The course will cover different organizations dedicated to museums, antiquities laws, and the history of museum collection, exhibition, education, and public relations.
4. Practical training will include visits to museums to provide hands-on experience.

PAPER – 5.2.4 (B)

INDIAN NUMISMATICS

SAME AS H. 5.2.4(A) (INDIAN NUMISMATICS) OF ARCHEOLOGY SPECIAL PAPER

C: CULTURAL HISTORY OF INDIA

PAPER- H.5.2.3 (C)

_ RELIGION AND PHILOSHPY

COURSE OUTCOMES: -

1. The main goal of the course is to help students gain knowledge of the Indian religious system and its related philosophies.
2. The course aims to provide an accurate understanding of these religious and philosophical concepts.
3. Understanding religion and philosophy is crucial for studying Indian history.
4. The course will enhance students' ability to contextualize Indian history within its religious and philosophical framework.

PAPER – H.5.2.4 (C)

_ LITERATURE

COURSE OUTCOMES :-

1. The purpose of this course is to offer a comprehensive understanding of significant literary works in India.
2. Students will explore important literature from India.
3. The course aims to help students develop a solid understanding of trends in past writing.
4. Upon completion, students will gain a better grasp of India's literary heritage and its historical context.

D: CULTURAL HISTORY OF ODISHA

PAPER – H. 5.2.3 (D)

_ SOCIAL STRUCTURE

COURSE OUTCOMES:-

1. The purpose of this course is to offer a comprehensive understanding of the social structure of Odisha from ancient times to the present day.
2. Students will study the composition of diverse and intricate societies in Odisha across different historical periods.
3. The course aims to provide insights into the evolution and dynamics of these societies.

4. Upon completion, students will have a broad understanding of the social structures that existed in Odisha throughout history.

PAPER – H.5.2.4 (D)
_ LITERATURE
COURSE OUTCOMES :- 1. This course aims to offer a comprehensive understanding of significant literary works from Odisha, spanning from the Mauryan period to the present day.
2. Students will explore important literary works of Odisha across different historical periods.
3. The course will help students understand the trends in literary writings over time.
4. Upon completion, students will have a solid grasp of Odisha's literary heritage and its evolution through various eras.
PAPER – H.5.2.5 - DISSERTATION AND VIVA

PG DEPARTMENT OF POLITICAL SCIENCE

SEMESTER - I		
COURSE CODE	**COURSE NAME**	**COURSE OUTCOMES**
PSC-101	**MODERN POLITICAL THEORY**	• **After reading the course, the learner would, be able to understand the various traditional and Modern Approaches of political theory and try to reflect it in the various outlooks of political understanding and debating.** • **The course will enhance their knowledge and implicating its importance from theory to practice.** • **It would appreciate how these theories and concepts enrich the discourses of political life, enriching their analytical skills into action.**
PSC- 102	**INDIAN POLITICAL THOUGHT**	• **As Indian Political Thought is a core area in the studies of political science.** • **This paper will serve as an eyeopener to our students preparing for various civil service/Academic examinations.** • **The course also will certainly enrich our students to feel confident about the traditional values if Indian Nationalism evolved during a course of time.**
PSC-103	**WESTERN POLITICAL THINKERS -I**	• **The paper introduces the student to the western contemporary socio-economic and Political Tradition.** • **It brings the major component of the state and its application in Political Science through the Philosophical discourse of the western political thinker.** • **The student understands the major concept of the state and its evaluations vis-s-vis the society.** • **In the process of the contests of the paper, the student has a glimpse of the contemporary human nature, for which the**

		Political Science Philosopher discuss the Significance of the State in Political Science.
PSC-104	**PUBLIC ADMINISTRATION: PRINCIPLES AND THEORIES**	• **The students would aware about the fundamental pillars of Public Administration like Organisation, Bureaucracy, Personnel Administration, Financial Administration as well as Good Governance.** • **They will be able to develop their knowledge about Planning and Administrative machineries be used in research and intellectual gaining.** • **The course will enhance and educate the students about the various fields of Public Administration and encourage them for future development in administrative areas.**
PSC-105	**THEORIES OF INTERNATIONAL POLITICS**	• **The course will be immensely useful to the post graduate students in understanding International Politics as part of Political Science from a global, theoretical and discipline centric perspectives, serving its purpose as a foundation course.** • **International Politics is a core area of study for the students appearing for UPCS, UGC JRF/NET and other competitive examinations conducted by State Public Service Commissions. Keeping this in view the course can prove to be immensely useful to the students.**

SEMESTER - II		
COURSE CODE	**COURSE NAME**	**COURSE OUTCOMES**
PSC-201	**POLITICAL THEORY: ISSUES, IDEOLOGIES & DEBATES**	• **In the contemporary thrust of employment on the basis of political science this course will be useful to make the students prepare for their goals and objectives in making their career in political science.** • **End of ideology is a recurring debate and the students who want to contribute on this**

		debate the students will certainly involve in future.
PSC- 202	**WESTERN POLITICAL THINKERS -II**	• **The paper provides the student with the idea of the state in Modern day analytical explanation of the Political Philosophers, and how the state still has its relevance for human welfare.** • **The paper is a continuation of the western philosophical dimension of the concept of state, and introduces the students with modern day interpretation of the state.** • **It also brings in the social welfare and justice component interpretation to the state.**
PSC-203	**ADMINISTRATIVE THEORY**	• **The students learn from this course, the fundamental, theorizing and key concepts in Administrative fields.** • **The course imparts the knowledge to the learners about the concepts as to be used to explain the working of modern Public Administrative Organizations.** • **It too provides the students better grounding in the discipline which they further can use to understand issues in public policy and governance.**
PSC-204	**EMERGING ISSUSES IN CONTEMPORARY INDIAN POLITICS**	• **This paper would proved be very useful for the students preparing for academic, civil services and other types of competitive exam.** • **The NGO sector is wide open on testing variables about contemporary Indian Political Issues and in the context the paper would provide the road map for the students who want to join NGOs and in NGOs.**
PSC-205	**CONTEMPORARY THEMES ON INTERNATIONAL RELATIONS**	• **International issues have always dominated the academic discourse and this course will make the post graduate students to have a thorough understanding on such issues which will make them confident to appear for various competitive exams conducted by**

		bodies like UPSC, UGC – JRF/NET and other state boards. • **Those who are interested to a make career in media or research this course will be immensely useful to them.**

SEMESTER - III		
COURSE CODE	**COURSE NAME**	**COURSE OUTCOMES**
PSC-301	**CONTEMPORARY POLITICAL THOUGHT**	• **Research on political thought has been a neglected area in the studies of political science.** • **Undoubtedly the students after studying the paper develop in this paper new paradigm in this area which is much necessary.**
PSC- 302	**POLITICAL SOCIOLOGY**	• **After completing the course the students would, be educated with the key concepts and theoretical perspectives in Political Sociology.** • **The students will gain capacities of explanation about various dynamics of social and political processes with macro and micro components.** • **Further the course will enhance the learners to closely understand the combined relationship between society and politics.**
PSC-303	**INDIAN POLITICAL SYSTEM: INSTITUTIONAL DYNAMICS**	• **Indian polity is a major area of political science and the students after studying this course will be benefited to undergo various examinations conducted by UPSC, UGC and other state boards.** • **This will also empower the students to build up further research themes on the broad area of the Indian polity.**
PSC-304	**DEMOCRACY AND HUMAN RIGHTS IN INDIA**	• **After completion of the course the students will be able to enhance themselves to build conceptual understanding about human rights critically examine key issues and areas often talked about in human rights discourses.**

		• **Apart from the students will be benefitted to acquire knowledge about state actors and institutions, agencies and law associated with them, which occupy the central place is discussion, the module also engages with social, religious, political and economic ideologies which unleash several critical issues pertaining to human rights.**
PSC-305	**INDIA AND THE WORLD**	• **Indian Foreign policy has emerged as a major thrust in contemporary academic discourse. The students preparing for Civil Services will be immensely benefitted from this course.** • **The course has been designed to serve as a hand book on Indian Foreign Policy with all its changes and continuity and it will certainly be very useful for students preparing for UGC – JRF/NET examination.** • **It will also be very helpful to those students who want to conduct further research on themes of Indian Foreign Policy.**

SEMESTER - IV		
COURSE CODE	**COURSE NAME**	**COURSE OUTCOMES**
PSC-401	**COMPARATIVE POLITICAL ANALYSIS**	• **After completing this course, the students would learn to use the comparative method to analyse why and how political institutions, processes, regimes, and ideologies change over time and across regions.** • **Further they learn to use conceptual equipment to understand new fields of knowledge in political occurrence across the world historical, sociological, and institutional perspectives.** • **They develop an in-depth study comparative politics and understand**

		similarities and differences in political experiences
PSC- 402	**INTERNATIONAL ORGANIZATIONS AND ADMINISTRATION**	• **In the studies of Political science International Organization International Organization has always been in prime focus.** • **The paper will enable the students to face interviews in various government and nongovernment sectors, those who are preparing for UPSC and other competitive examinations.** • **The paper will be of immense use particularly those who want to pursue research on international organizations including that of terrorist organizations**
PSC-403	**RESEARCH METHODOLOGY**	• **The student gets a brief idea of the significance and importance of Research.** • **The students get knowledge of how to conduct a research study, and thus helps in all his future endeavours.** • **The paper gives a broad framework to analyses the different topic of interest in the perspective of his/her understanding. For student pursuing higher studies, like Ph.D, this paper become most important.**
PSC-404	**INDIAN ADMINISTRATION**	• **After the completion of the course the students would; be able to understand the basic concepts of Indian Administration and respond efficiently to diverse public needs.** • **Gain organised knowledge about governmental structure and administrative process to its contribution in nation-building and creative citizens.**

		• **Develop a critical analysis and understanding various issue and conflict areas of administration.**

DEPARTMENT OF EDUCATION

EDUCATIONAL PHILOSOPHY

Learning Objectives:

On completion of this course, the learners shall be able to:

- State and analyze the meaning of education and form own concept on education
- Explain philosophy as the foundation of education
- Analyze aims of education
- Describe the essence of different formal philosophies and draw educational implications
- Compare and contrast Indian and western philosophies of education

Core Paper II

EDUCATIONAL

PSYCHOLOGY

Learning Objectives:

On completion of this course, the learners shall be able to:

- Explain the concept of educational psychology and its relationship with psychology.
- Understand different methods of educational psychology.
- Describe the theoretical perspectives of educational psychology.
- Explain the concepts of growth and development of child and adolescence, and underlined general principles of growth and development.
- Describe briefly the periods and the typical characteristics ofgrowth and developmentduring childhood and adolescence.
- Specify the contexts and factors influencing development.
- Explain the theory of cognitive development and its educational implications.
- State the different forms and characteristics of individual differences and the ways ofmeeting the classroom issues arising out of the differences.
- Identify the learning needs during the different stages of development and adopt appropriate strategies in and out of school to meet the learning needs.

Core Paper III
EDUCATIONAL SOCIOLOGY

Learning Objectives:

On completion of this course, the students shall :

- State the relationship between education and society.

- Understand the meaning of Educational Sociology and function of education as asocial system.
- State different agencies of education and their functions.
- Justify the importance of education for social change.
- Describe the role of education in modernization and globalization.
- Describe the function of education to ensure equality and equity

Core Paper IV

CHANGING PEDAGOGICAL PERSPECTIVE

Learning Objectives:

On completion of this course, the students shall:

- Explain the concept of pedagogy
- Differentiate pedagogy from other allied concepts
- Explain different teaching task with example
- Establish relationship between teaching and learning
- List out different approaches and methods of teaching
- Prepare a lesson plan following different designs

Core Paper V

EDUCATIONAL ASSESSMENT AND EVALUATION

Learning Objectives:

On completion of this course, the students will.

- State the nature, purpose and types of educational assessment and evaluation.
- Develop and use different types of tools and techniques for continuous and comprehensive assessment of learning in the school situation.
- Explain the importance of assessment for learning and its processes for enhancing the qualityof learning and teaching.
- Describe the characteristic of a good test.
- Analyze the trends and issues in learning and learner assessment.
- Analyze and interpret results of the assessment using standard score.
- Illustrate the principles of test construction in education.

Core-VI
Educational Research

On completion of this course, the student will:

- Describe nature, scope and limitation of educational research.
- Understand different types and methods of educational research.
- Explain sources from where knowledge could be obtained.
- Describe the process of research in education.
- Analyze research design in education.
- Illustrate procedure of collecting and analyzing data.
- Prepare the research report.

Core-VII
Statistics in Education

On the completion of this course, the students will

- Describe the importance of statistics in education
- Organize and represent educational data in tabular and graphical form
- Compute and use various statistical measures of average, variation and bi-variate distribution in analysis and interpretation of educational data.
- Describe the concept and importance of normal probability curve and interpret test scores in using normal probability curve
- Understand the divergence of data from normality

Core Paper VIII

HISTORY OF EDUCATION IN INDIA

Learning Objectives:

On completion of this course, the student will

- Understand the development of education in India during ancient period, medievalperiod and pre-independence period.
- Describe the development of education in India during post-independence period.
- Describe major recommendations of different policies and committee reports oneducation in India.

Core Paper IX

CURRICULUM DEVELOPMENT

Learning Objectives:

On completion of this course, the students will

- Differentiate curriculum from courses of study, text book.
- Analyse bases and sources of curriculum.
- Describe different types of curriculum.
- Critically examine National curriculum framework- 2000 and 2005.
- Describe process of curriculum development and differentiate different models ofcurriculum development.
- Evaluate curriculum using different evaluation models.

Core Paper X

GUIDANCE AND COUNSELLING

Learning Objectives:

On completion of this course, the students will

- State the concept, need, principles and bases of guidance.
- Use various tools and techniques of guidance in appropriate contexts.
- Explain the role of school in organizing different guidance programmes.
- State the concept, scope and type of counseling.
- Narrate the process, tools and techniques of counseling.
- Explain the qualities and role of a counselor.
- Describe different programmes for with differently abled children.
- Explain the role of teacher and head master in organizing different guidance programmes.

Core Paper XI DEVELOPMENT OF EDUCATION IN ODISHA

Learning Objectives

On completion of the course the students will:

- Grasp the structure of educational system of Odisha
- State the function of institutions/units at the state and district levels
- Appreciate the contribution of Utkalmani Gopabandhu Das to the thoughts and
- Practices of Indian Education narrate the Learning Objectives and implementationprocess of the major education
- Schemes of central as well as state government being implemented in the state ofOdisha
- Explain the role of various state and district level institutions in education
- Analyze the scenario of higher and technical education of Odisha
- Establish linkage between higher education and development of the state

Core-XII

Learning Objectives

On completion of this course, the student will:

- Explain the concept, nature and scope of ICT in education
- Explore ICT resources for Teaching and learning.
- Differentiate between Web1.0 and Web2.0

- Describe the importance of free and open source software in education
- Demonstrate the use of various application software in education.
- Develop the ability to use various tools connect the world
- Explain the content by using various subject tools.
- Explore tools and techniques of ICT for evaluation.

Core-XIII

Learning Objectives

On completion of this course the students will:

- Understand the importance of pre-school and elementary school education. Analyzevarious problems and issues for ensuring quality education.
- State the importance of secondary education and analyze various problems and issuesfor ensuring quality in secondary education.
- Enumerate the importance of higher education and analyze various problems andissues for ensuring quality in higher education.
- Justify the importance of teacher education and analyze various problems and issuesfor ensuring quality in teacher education.
- Analyze emerging concerns in Indian education.

Core Paper XIV

EDUCATIONAL MANAGEMENT AND LEADERSHIP

Learning Objectives

On completion of this course, the students will

- Describe the concept, types and importance of educational management.
- Spell out the structure of educational management at different levels - from nationalto institution leve
- Describe different aspects and importance of educational management.
- Describe the concept, theories and style of leadership in educational management.
- Analyze the concept, principles and structures of total quality management approachin education.

DSE-1

Pedagogy of Language (Odia)

Learning Objectives

On completion of this course, the student will:

- State the importance and place of Odia as mother tongue in school curriculum.
- Develop the strategies to address the problems of Odia language acquisition in multilingual context.
- Use various strategies for facilitating the acquisition of language skills in Odia.
- Decide appropriate pedagogic approaches to transact different types of lessons

inOdia.

- Prepare appropriate tools for comprehensive assessment of learning in Odia.
- Explain the fundamentals of Odia linguistics and their relevance in teaching learningOdia.
- Plan appropriate pedagogic treatment of the prescribed textual contents (in Odia) ofclasses IXand X

DSE-2
Pedagogy of Social Science

Learning Objectives

On completion of this course, the student will:

- State the meaning, scope and importance of Social science
- Specify the skills and competencies to formulate specific LEARNING OBJECTIVESfor different History and Political Science lessons
- Identify the different methods and skills of teaching History and Political Science fortransacting the contents effectively.
- Explain the importance of time sense and prepare / utilize timelines for effecting teaching of History
- Prepare Unit Plans and Lesson Plans in History and Political science
- Develop diagnostic achievement test, administer them and analyse the results forproviding feedback

DSE-3

POLICY AND PRACTICES IN SCHOOL EDUCATION IN INDIA

Learning Objectives

On completion of this course, the student will:

- Analyse various policies on education for school education in India
- Evaluate progress of schools education
- Examine the problems in implementation of the policies on school education
- Explore status of women education and education for SC, ST and Minorities in Indian

GE-1
Educational Philosophy

Learning Objectives

On completion of this course, the learners shall be able to:

- State and analyse the meaning of education and form own concept on education
- Explain philosophy as the foundation of education
- Analyse aims of education
- Describe the essence of different formal philosophies and draw educational

implications

- Compare and contrast Indian and western philosophies of education

GE-2
EDUCATIONAL PSYCHOLOGY

On completion of this course, the students will:

- Explain the concept of educational psychology and its relationship with psychology.
- Understand different methods of educational psychology.
- Explain the concepts of growth and development of child and adolescence, and underlined general principles of growth and development.
- Describe briefly the periods and the typical characteristics ofgrowth and developmentduring childhood and adolescence.
- Explain the theory of cognitive development and its educational implications.
- State the different forms and characteristics of individual differences and the ways ofmeeting the classroom issues arising out of the differences.
- Identify the learning needs during the different stages of development and adopt appropriate strategies in and out of school to meet the learning needs.

GE-3
Contemporary Trends and Issues in Indian Education
Learning Objectives

On completion of this course the students will

- Understand the importance of pre-school and elementary school education. Analyzevarious problems and issues for ensuring quality education.
- State the importance of secondary education and analyze various problems and issuesforensuring quality in secondary education.
- Enumerate the importance of higher education and analyze various problems andissues forensuring quality in higher education.
- Justify the importance of teacher education and analyze various problems and issuesforensuring quality in teacher education.
- Analyze emerging concerns in Indian education.

GE-4
Educational Assessment and Evaluation

Learning Objectives

On completion of this course, the students will.

- State the nature, purpose and types of educational assessment and evaluation.
- Develop and use different types of tools and techniques for continuous and comprehensive assessment of learning in the school situation.
- Explain the importance of assessment for learning and its processes for enhancing thequalityof learning and teaching.

- Describe the characteristic of a good test.
- Analyze the trends and issues in learning and learner assessment.
- Analyze and interpret results of the assessment using standard score.
- Illustrate the principles of test construction in education.

PG DEPARTMENT OF PSYCHOLOGY
COURSE OUTCOMES
B.A (PSYCHOLOGY)

Semester-I	
Course	Outcomes
Core Course- I INTRODUCTORY PSYCHOLOGY	CO-1. Students will be able to define the term psychology and demonstrate command of the basic terminology, concepts, and principles of the discipline. CO-2. Gain knowledge of scientific methodology–the variety of ways in which psychological data are gathered and evaluated / interpreted. CO-3. Identify and compare the major perspectives in psychology: Recognize how each approach views human thought and behaviour. CO-4. Understand the physiological and biochemical links of human behaviour.
Core Course - II BASIC DEVELOPMENTAL PROCESSES	CO-1. Students will be able to understand the nature, types, and principle of development CO-2. Understand the processes of formation of life and development during pre- and post-natal periods. CO-3. Students will be able to understand the developmental preparations of the childhood and the implications of developmental milestones for the normal human development. CO-4. Understand about the different aspects of preparation for future life.
Semester-II	
Core Course- III BASIC PSYCHOLOGICAL PROCESSES	CO-1.Students will be able to understand about the mental processes and how it begins with sensation and perception resulting in thoughts and communication. CO-2. Students will be able to understand the bases sensory actions and the processes of integration of sensory actions in creating and interpreting perceptual events. CO-3. Gain knowledge of the important processes and principles of human learning as well as the structural functional attributes of human memory to help conserve the learning outcomes. CO-4. Understand the structural and functional properties of language and the way it helps thought, communication, problem solving and decision making through development of concepts, ideas, images, and so on.

Core Course - IV PROCESSES OF HUMAN EMPOWERMENT	CO-1. Students will be able to gain ideas about intelligence and personality as foundations of human empowerment. CO-2. Students will be able to know the structural components and functional dynamics of both intelligence and personality. CO-3. Understand the significance of emotion and motivation in behaviour management. CO-4. Understand significant aspects of social behaviour as resulting in happiness, well-being and personal growth.
Semester-III	
Core Course - V PSYCHOLOGICAL STATISTICS	CO-1. Students will be able to develop knowledge and understanding of the application of Statistics within Psychology. CO-2. Students will be able to understand the nature of psychological variables and how to measure them using appropriate scale. CO-3. The processes of describing and reporting statistical data. CO-4. The methods of drawing inferences and conclusions for hypothesis testing by using appropriate statistical analysis.
Core Course-VI SOCIAL PSYCHOLOGY	CO-1. Students will be able to develop awareness of the concepts, problems and issues in the discipline of social psychology CO-2. Students will be able to know the scope of studying social psychology and the methods to gather data in the social context to explain them. CO-3. Understand the significance of social cognition, attitudes, stereotypes and prejudices in explaining human behaviour in the social contexts. CO-4. Understand the significant aspects group behaviour and social influence that constitute the core of human relationships.
Core Course - VII ENVIRONMENTAL PSYCHOLOGY	CO-1. Students will be to delineate psychological approaches to the study of environment. CO-2. Students will be able to understand the interactional relationships between environment and behaviour CO-3. understand the problems occurring to ecology and environment at the present time CO-4. understand different psychological approaches to the study of man-environment relationship.
Semester-IV	
Core Course- VIII PSYCHOPATHOLOGY	CO-1. Students will be able to define and understand the basic concepts underlying psychopathology and the perspectives

	which contributed to the development of modern psychopathology. CO-2. Students will be able to understand the differences between normality and abnormality along with the perspectives explaining them. CO-3. Know the importance and the use of assessment techniques in identifying different forms of maladaptive behaviour. CO-4. Learn the symptoms, causes and treatment of anxiety disorders, mood disorders and schizophrenia.
Core Course - IX EDUCATIONAL PSYCHOLOGY	CO-1. Students will be able to define educational psychology and give examples of the different topics educational psychologists study. CO-2. Describe the developmental issues faced by school age children and to describe the challenges presented by children with ability differences. CO-3. Explain the role of motivation on learning and classroom behaviour. CO-4. Describe classroom management techniques.
Core Course - X PSYCHOLOGICAL ASSESSMENT	CO-1. Students will be able to understand the basic facts about psychological assessment. CO-2. Understand the processes of test construction and standardization. CO-3. Understand about the assessment of different types of skills and abilities. CO-4. Students will be able to understand various psychological assessment techniques
Semester-V	
Core Course - XI ORGANIZATIONAL BEHAVIOR	CO-1. Students will be able to understand different concepts and dynamics related to organizational system, behaviour, and management. CO-2. Identify steps managers can take to motivate employees in the perspectives of the theories of work motivation. CO-3. Understand the tricks of power and politics management in the organizations. CO-4. Understand significance of human resource development, evaluation and management for the interest and benefit of the organization.
Core Course - XII HEALTH PSYCHOLOGY	CO-1. Students will be able to understand the issues of Health Psychology and how to address them by the bio-psychosocial model of health and illness. CO-2. Students will be able to know the basics of health and illness from the Bio-psychosocial perspectives.

	CO-3. Understand the significance of behavioural and psychological correlates of health and illness. CO-4. Understand the significant aspects of coping and importance of health enhancing behaviour.
Semester-VI	
Core Course - XIII COUNSELING PSYCHOLOGY	CO-1. Students will be able to understand and integrate current scientific knowledge and theory into counselling practice. CO-2. Students will be able to demonstrate professional behaviour in their various roles as counselling psychologists. CO-3. Students will be able to understand the purpose of counselling and practice of counselling ethically following different approaches. CO-4. Understand the basics of counselling process and use them for counselling students, families, couples, distressed, and handicaps.
Core Course - XIV POSITIVE PSYCHOLOGY	CO-1. Students will be able to understand the rationale behind positive psychology. CO-2. Students will be able to understand the goal of positive psychology and the basic behaviour patterns that result in positive human growth from the point of view of leading positive psychologists. CO-3. The concepts of flow and happiness and the related theories and models explaining happiness behaviour and its consequences. CO-4. All the precursors to positive psychology from character strength and altruism to resilience.

PG DEPARTMENT OF ENGLISH

Course Outcomes B.A (English)

Semester	Course No	Course Title	Course Outcome
I	CC-I	BRITISH POETRY AND DRAMA: 14TH TO 17TH CENTURIES	CO-1: It will assist learners in developing a nuanced appreciation of the literary genres of different eras by acquainting them with the socio-cultural milieu and discursive frameworks of diverse centuries. CO-2: It will help learners sample and explore certain seminal texts from the early modern period, covering the genesis of modern English poetry and the Renaissance that set British poetry and drama on their glorious course to greatness.
	CC-II	BRITISH POETRY AND DRAMA: 17TH AND 18TH CENTURY	CO-1: It will allow learners to follow the evolution of traditional generic conventions as they have been adopted and refined by English writers over time. CO-2: It will acquaint learners with features of Comedy of Manners, Comedy of Humour, Metaphysical, Cavalier and Heroic Poetry.
II	CC-III	BRITISH PROSE: 18TH CENTURY	CO-1:I It will help learners understand the essay as a literary genre. CO-2 It will enable learners to examine how the works chosen for study were influenced by the sociological, historical, cultural, and political setting of the age.
	CC-IV	INDIAN WRITING IN ENGLISH	CO-1: It will lead to an understanding of the historical development of different Indian literary genres in English from colonial times to the present. CO-2: It will help learners examine the English-language and works of Indian literature, in terms of nationalism, regionalism, colonialism and post-colonialism.
III	CC-V	BRITISH ROMANTIC LITERATURE	CO-1: It will allow learners to compare and contrast tenets of Romanticism with those of Classicism. CO-2: It will enable learners to make a clear analysis of the organic relationship between man and Nature.

	CC-VI	BRITISH LITERATURE 19TH CENTURY	CO-1: It will allow learners to study some of the works of the representative writers of the age. CO-2: It will enlighten learners with a thorough understanding of the Romantic Movement
	CC-VII	BRITISH LITERATURE: EARLY 20TH CENTURY	CO-1: It will help learners to understand the developments in society and economy that led to a crisis in Western society known as the First World War and the resultant change in the ways of knowing and perceiving. CO-2 It will help learners in comprehending Marx's concept of class struggle, Freud's theory of the unconscious, and Eliot's criticism, alongside some great works of literature.
IV	CC-VIII	AMERICAN LITERATURE	CO 1:It will help learners understand the genesis and evolution of American Literature through a study of selected pieces. CO 2: It will give learners comprehensive ideas on some famous American writers.
	CC-IX	EUROPEAN CLASSICAL LITERATURE	CO-1: It will help learners understand many literary trends and genres of the time through the study of a few texts written by well-known authors. CO-2: It will give learners comprehensive ideas on the socio-cultural attributes of the Greco-Roman civilization.
	CC-X	WOMEN'S WRITING	CO-1: It will help learners understand the critical perspectives of both British and Indian authors on various issues relating to women. CO-2 It will help learners relate women's writing to the existing canons of literature that are predominantly androcentric.
V	CC-XI	MODERN EUROPEAN DRAMA	CO1:It will lead to a thorough understanding of the principal features of realism, naturalism and existentialism. CO2: It will enable learners to critically assess the social changes in 20th-century Europe and its impact on drama.

	CC-XII	INDIAN CLASSICAL LITERATURE	CO1:It will acquaint learners with some of the finest examples of Sanskrit poetry and drama as well as Indian critical theory. CO2: It will help learners learn about aesthetics and maxims in Indian Classical Literature.
VII	CC-XIII	POSTCOLONIAL LITERATURES	CO1: It will help learners to have a broad understanding of the contexts of Postcolonial Literature. CO2: It will make learners learn about movements and theories against the empire as well as the points of view of major postcolonial thinkers.
	CC-IV	POPULAR LITERATURE	CO1: It will motivate learners to examine the social and cultural functions of popular culture and its intricacies. CO 2: It will help learners understand how popular culture represents gender, sexual orientation, race, ethnicity, class, and other socially constructed markers of identity.
V	DSE-1	LITERARY THEORY	CO-1: It will help learners analyse critical theories better. CO-2: It will teach them how to apply these theories to literary texts.
	DSE-II	WORLD LITERATURE	CO 1: It will help learners critically evaluate literary works in the context of various literary movements. Co 2: It will make learners understand how texts change in appearance as civilization changes and how concepts evolve over genres and historical periods.
VII	DSE-III	PARTITION LITERATURE	CO-1: It will help learners learn the political context of partition in the Indian subcontinent. CO-2: It will enable learners to evaluate different writers who have been victims of partition.
	DSE-IV	DISSERTATION/ RESEARCH PROJECT	CO-1: It will help the undergraduates to acquire some inquiry-based learning that involves practical work, and not just listening to classroom teaching and personal reading.

			CO-2: It will encourage learners to apply what they study in their courses to appreciate different aspects of their field and to contribute something original to the courses they study.
	GE-I	ACADEMIC WRITING AND COMPOSITION	CO-1:It will help learners work on their LSRW skills. CO2:It will sharpen the different areas of critical thinking of learners such as synthesis, analysis and evaluation.
	GE-II	GENDER AND HUMAN RIGHTS	CO1: To help the learners have a deep understanding of different cultural issues. CO-2: To imbibe practical knowledge of the functions of Human Rights in the learners.
	GE-III	**NATION, CULTURE, INDIA**	CO-1: It will instill in learners patriotic sentiments, moral thinking, Indian value system. CO2: It will enlighten learners with Aurobindo's ideas of spirituality and nationalism.
	GE-IV	LANGUAGE AND LINGUISTICS	CO 1: It will help learners learn about language, linguistics, its branches and scope as well as applied linguistics. CO-2: It will also develop learners' deep understanding of concepts like Standard Language and Language Standards, Language Variation, Postcolonial English, Pidgin and Creole, Phonology and Morphology, Syntax and Semantics.
	AECC-II	MIL (ALTERNATIVE ENGLISH)	CO-1: It will help learners enhance their ability to comprehend texts. It will further enhance their listening, speaking, reading, and writing skills. CO-2: It will also help learners to boost their knowledge of English grammar.
	SECC-I	ENGLISH COMMUNICATION	CO1: It will give learners more resources to develop their language and literary talents.

			CO2: It will assist learners in writing letters, reports, and notices so they can successfully navigate corporate communication in the workplace
MA-ENGLISH			
	ENG 411	Society, Literature and Culture I: 1060 - 1789	CO1. The influence of contemporary philosophies on the early literary forms. CO2. The social and political concerns of writers of the age. CO3. Differences between the social and political concerns of writers of the age. CO4. The origins of the different literary genres.
	ENG 412	Course Title: English Poetry	CO1. The influence of contemporary philosophies on the early poetic forms. CO2. The social and political concerns of writers of the age and their relevance to us today. CO3. Distinguish between the social and political concerns of the female and the male poets of the period. CO4. Later developments in poetic diction and style.
	ENG 413	English Drama I	CO1. The social and political concerns of the dramatists of the age, and their relevance to us today CO2. Philosophical ideas that informed the political thoughts of the age CO3. Theatrical practices of the Elizabethan and Jacobean era CO4. The Influences on Modern theatrical reinventions
	ENG 414	**English Novel I**	CO1. Different forms of the early novel. CO2. Influence of early European explorations on the literature of the era. CO3.The social and political concerns of writers of the Eighteenth Century, and their relevance to us today CO4. The cultural contexts in which the Novel came to be written
	ENG 415	**Literary Theory and Criticism till 1940s**	CO1.Understand the methodologies and modes of interpretation that have informed contemporary literary criticism CO2. Learn the art of critical appreciation of literary texts CO3. Critically evaluate the major schools of literary criticism in light of current theories CO4. Appreciate 'Essay' as a form of literary criticism
	ENG 421	**Society, Literature and Culture II: 1789 -1945**	CO1. The influence of development in science and technology on literature CO2. The social and political concerns of writers of the age CO3. Effect of the wars on the arts and different literary forms CO4. The origins of the different literary genres
	ENG 422	**English Poetry II**	CO1. Contextualise Romantic poetry against early modern poetry of the eighteenth century

			CO2. Understand the social and political concerns of writers of the age, and their relevance to us today CO3. Critically evaluate and compare 19th Century poetics and their practice CO4. Approach developments in modern poetry against Romantic poetry
	ENG 423	**English Poetry III**	CO1. Contextualise Victorian poetry against the philosophical and intellectual debates of the times. CO2. Understand the social and political concerns of writers of the age, and their relevance to us today. CO3. Understand the impact of art and culture on the poetry of the 19th-century CO4. Understand the conflicts between faith and new knowledge.
	ENG 424	**English Drama II**	CO1.The cultural contexts that informed the re-emergence of theatres during the Restoration period CO2. Influence of philosophical ideas of the Enlightenment on the drama of the period CO3. Realism and Naturalism as theatrical conventions of the 19th and 20th century CO4. Theatre of the Absurd as a modern theatrical reinvention
	ENG 425		CO1. Nineteenth Century novel as a critical commentary on cultural practices of the times CO2. The social and political concerns of writers of the Nineteenth Century, and their relevance to us today CO3. Realism as an artistic convention and tendency in the Victorian novel CO4. The early literary concerns with gender issues
	ENG 431	**Research Methodology and Publication Ethics**	CO1.Pursue scholarship based on theory of textuality Writing research papers, review of literature, editing and publishing. CO2.Understand the ethics of research and apply the basics of research methods to writing a research paper. CO3. Use technology for research.
	ENG 432	**English Poetry IV**	CO1. Understand the social and political concerns of writers of the age, and their relevance to us today. CO2. Understand modern literary experimentation as an outcome of disillusionment with early belief systems. CO3. Approach developments in modern poetry against Romantic poetry CO4. Modernity as an idea represented in the poetry of the period
	ENG 433	**English Novel III**	CO1. The social and political concerns of writers of the Twentieth Century, and the irrelevance to us today CO2. The relation between Modern art and literature

			CO3. The developments in psychoanalytical practices and new Philosophical ideas that have informed the writings of the Modern novel
	ENG 434	**The English Literary Essay**	CO1. Understand the theory and the history of the essay in English CO2. Be able to identify the social and cultural practices that influenced the generic features of the essay as a form. CO3. Feel encouraged to sample the essay form from other non-British traditions.
	ENG 435	**Contemporary Theory**	CO1. Understand the debates between the different schools of thought. CO2. Develop a sophisticated understanding of theoretical approaches for identifying research problems. CO3. Independently use theories on their own to literary interpretations of texts. CO4. Apply knowledge of critical theories to an understanding of practical problems
	ENG 441	**Fiction-I**	CO1. Explore the feminist concerns in the novel. CO2. Develop a nuanced understanding of indigenous culture. CO3. Interpret religion as discourse. CO4. Analyse the psychological aspects of partition.
	ENG 442	**Fiction-II**	CO1. Explore issues like social discrimination and identity crisis in the context of postcolonialism. CO2. Indianization of English and Magic Realism CO3. Study dislocation and multiculturalism. CO4. Reflections on diasporic literature.
	ENG 443	**Poetry**	CO1. Discuss the strength of Indian religious tradition in the context of Bhakti Movements CO2. Situate the picture of India in the context of postcolonialism CO3. Study the dynamics of human relationships CO4. Explore concepts of “feminine”, “female” and “feminist”.
	ENG 444	**Drama**	CO1. Unravelling India’s traditions through classical Sanskrit literature CO2. Attempt a postcolonial reading of history CO3. Discuss feminine aspirations in the context of dominant patriarchy CO4. Riot literature and communal harmony
	ENG 445	**Drama**	CO1: to be familiar with data collection, interpretation and paper writing.

PG DEPARTMENT OF ODIA

POST GRADUATE SYLLABUS
Program Outcomes(PO)-

The master degree of odia literature demonstrates a detailed knowledge and understanding of selected fields of study in core diciplines in the humanities, social science and languages. It works effiectively in groups to meet a shared goal with peope whose disciplinary and cultural backgrounds differ from their own . This course works with independence, self-reflection and creativity to meet goals and challenges in the workplace as well as personal life. Articulate the relatrionship between diverse forms of knowledge and the social, historical or cultural contexts. The master degree of odia literature programme aims to develop student literary competence and to enable them to read, analyzeand interpret global literature. It helps students to undertake research in any streams of odia literature i.e. literature, linguistics, phonetics, folk literature etc. The M.A course prepares the students to seeks careers in various fields including teachingor work freeelance as translators and media persons etc.

CO-ORC 411- History of odia literature (Ancient, Sarala, Panchasakha and Riti yuga)
The study of ancient odia literary history helps the pupils understand the background, feature, the trends of development and characteristic feature of the antique odia poem of Sarala, Panchasakha and Riti yuga .

CO-ORC 412- History of odia literature (from modern age to the present day)
The primary objective of learning this paper in to make the pupils aware of the historical and cultural background, characteristics, traits of development and more importantly the biography and creative works of literary schloars of this period .

CO-ORC 413- Ancient odia poetry
This paper attempt to form a comprehensive idea on to both literary history and characteristics themes of literature from the Ancient(classical period to medieval age) .

CO-ORC 414- Modern Odia poetry (Part- 1)
Because of the varied aspects of modern odia poetry, this genre has manifold purposes,
i It will associate the learners with the short biography of front varking poets.
i It will create impression on individual andsubjective themes.
ii The style of using syntax in modern odia poetry.
iii Spontaneous expression of powerful feelings using simplicity of diction.

CO-ORC 415- Odia Drama
The introduction of odia drama in the course has the objectives facilitating is the definitions, its types, trends of development . It will enlighten the pupils about the brief biography of noted playwrights and their contributions to odia drama. It will acquaint the pupils with modern day stagecraft and diction used in the dialoguen .

CO-ORC 421- Odia Novel
The study of odia novel is for facilitating the definition, characteristic features, its kind and evolution of the novels among students. In addition to this the pupils will be exposed to the well known novelists of odia literature . the learner will get themselves associated with the complete and realistic portrayal of characters and society they are living in

CO-ORC 422- Odia short stories
Exposing the students to the definition,features, kinds and its evolution of the odia short stories is the important learning outcomes.

CO-ORC 423- Modern odia poetry (Part-II)
The study of modern odia poetry will help the learner feel the multi-faceted approaches of life ; it will let them define modern poetry, its kind, its characteristic features. It will allow the students to learn the application of free verse into poetry and how the concept of "ism" has influenced world literature.

CO-ORC 424- Odia prose literature – 1
The objective of reading odia literature part -1 is to expose the pupils to different lifestyle, culture, tradition and custom of different people around the world. This will facilitate cultural exchange.

CO-ORC 425- Odia prose literature - 2
This papers makes the students aware of the definition, characteristics, travelogues, associated with prose literatrure . It will enlighten them of the biography and auto-biography of noted authors.

CO-ORC 511- Literary theory (Eastern and western)
The study of oriental and occidental literary theory will enlarge their scope of learning literature and they will be exposed to the rhetoric and prosody of literature. It will expose them to many different "ism" that define modern and post modern life.

CO-ORC 512- Criticism and translation
The pupils will be exposed to analyse and evaluate literature objectively. It enlarges the students' horizon of thinking. Literature of translation makes a student learn global literature and it will give them knowledge about noted authors, living conditions of people of other areas.

CO- ORC 513- Odia media and communication
It teaches them objectives of journalism i, its definition ii, characteristics iii, its kinds iv. TV and Radio News an a parts of literature etc .

CO-ORC 514- Pre-Independence Odia Novels
The study of Pre-Independence Odia Novels will expose the pupils to the trends of odia Novels during the period and to the style and subject matter of famous author.

CO-ORC 515- Pre-Independence Odia short stories
The objective of reading of odia short stories of pre-independence period is to enlighten the student.

CO-ORC 521- Theorian of language and its Development
This paper attempts to define language its characteristics, its scope, its phonology views on origin of language ; it seeks to expose the students to team of linguists sound and the occurrence of change in language .

CO-ORC 522- Features of odia language
The outcome of this course is to make the pupils aware of the evolution of odia language and the influence of other language on it .

CO-ORC 523- Research methodology
It will wider the scope of research methodology among learners and let them published articles in the National and International Journal . It will teach them the meaning, features and techniques of research, data base, facts-arrangements etc.

CO-ORC 524- Odia stories and development of novel after independence
The studies of odia stories and development of novel after independence can worrent their consciousness with the universal world literature and promote thinking towords its definition, features, line of development and knowledge about famous authors.

CO-ORC 525(C)- Project paper and viva
This paper seeks to improve their confidence and their fluency in odia language and literature .
PG II SEM- IDC COURSE-CO
It makes students aware of the definition of mass media, features, kinds, style of news writing, usefulness of communication etc.

PG II and III Sem
CO- MOOC COURSE – Cultural Study
The objectives of this paper makes them learn the usefulness the culture to nectify the problems of the society. It helps them to reconstruct and correct the society.

+3 Syllabus
Program Outcomes(PO)

The master degree of odia literature demonstrates a detailed knowledge and understanding of selected fields of study in core diciplines in the humanities, social science and languages. It works effiectively in groups to meet a shared goal with peope whose disciplinary and cultural backgrounds differ from their own . This course works with independence, self-reflection and creativity to meet goals and challenges in the workplace as well as personal life. Articulate the relatrionship between diverse forms of knowledge and the social, historical or cultural contexts. The master degree of odia literature programme aims to develop student literary competence and to enable them to read, analyzeand interpret global literature. It helps students to undertake research in any streams of odia literature i.e. literature, linguistics, phonetics, folk literature etc. The M.A course prepares the students to seeks careers in various fields including teachingor work freeelance as translators and media persons etc.

CO- Paper- 1 – History of Ancient odia literature
Students will benefit from the study of ancient odia literature by knowing incase about it. Students belonging to humanities will study and analyse poetry and writing of famous author.

CO- Paper- 2 – Medieval odia literature
Medieval literature is a type of literature which enriched with figuradive language. It is very important for students to know more different dimention of this literature. Learners will read the poetic essence from the medieval literature encompassing religious devotion to earth love.

CO- Paper- 3 – Modern odia Poetry
This reminds students of the know for replacement of old practices with new idea which in terms highlights the multiples dimension new awakening. It is the responsibilities the students to know modern poets and authors along side the social, politicaland culturalmovement and consciousness.

CO- Paper- 4 – Post independence odia literature
To enlighten students on poetry, essay, biography and auto biography of reputed personalities and authors .

CO- Paper- 5 – Historical development of odia language and script
By studying this course, students will gather knowledge on odia language and script and to trace the development of all stages by studing historical manuscript, plaques, memories and other classical modes of information sharing.

CO- Paper- 6 – Defination, types and characteristics of odia language
Students must know a foreign language in addition to their own which will continue the legacy of world languages.

CO- Paper- 7 – Functional Odia Grammar
Grammar will remove the flow of language found in the usage just as the flow of river water takes the dirt away. It will lead to the intellectual development of students by fineturing their knowledge vocabulary, etynology, parsing and other rules of grammar.

CO- Paper- 8 – Odia folk literature and culture
Students will learn that culture plays a pivotal role during formal literature . They will implement the morals, principles and ideals in heart from folk literature and culture in their lives.

CO- Paper- 9 – Literary Theory
To give new direction to students on the occidental and oriental theory of literature involving symbolism, romanticism and imaginary.

CO- Paper- 10 – Odia poetry Ancient to modern
The magnificence of ancient poetry combined with the special altraction of modern poetry will encourage the students to aspire more and enjoy the culture.

CO- Paper- 11
By studying this students will understand the importance of drama and how societies benefit from play. They become aware of the normal activities and rational of human life alongside the realities of life.

CO- Paper- 12 – Odia Short Story
Student will have through knowledge on odia novelist and short story writer as well as intrication of human life and their imaginary faculty.

CO- Paper- 13 – Odia Prose Literature
To give learner multi diversional facts on odia prose literature, such as scope, limitation, necessity, variety, similarities and differentiate.

CO- Paper- 14 – Functional Application of odia language
This course will benefit students to apply the day today life and computer literary will help student to their bright future.

CO- D.S.E Paper- 1 – History of odia literature and culture
Through this course students will learn about odia culture, tradition, festival etc. and they will definitely makes their time healthy and beautiful. If human beings leave their aggressive behavior aside and get back to their religious and cultural roots.

CO- D.S.E Paper- 2 – Odia children literature and scientific literature
Through this course, learners will experience the beauty of life as its experience by a child who will admiring the mysterious of life and collecting its little joy in the present teaches us the philosophy of life and the greatness of scientific endeavor.

CO- D.S.E Paper- 3 – Odia prose literature
Students will acquire knowledge on varieties of prose such as short stories, novel, essayand criticism. The learner will also enlighter and entertain themselves through motivational aredotes and adoges meant to elevate consciousness.

CO- D.S.E Paper- 4 – Project paper and viva
This paper seeks to improve their confidence and their fluency in odia language and literature .

CO- GE Paper 1 and 3 – Media, Broadcast and Advertisement
This course will teach student the dynamic of letter writing and gathering information on different massmedia through digital communication.

CO- GE Paper 2 and 4 – Literary Study
This course will enables the learners to established the link between literature and society and to realise that always has a propagatory role to play in human life. They will be immensely benefited on the elements of suspends and conflict in odia fiction giving them an opportunity for 360 degree appraisal of life.

CO-AECC ODIA- Dynamic and medium of communication
This will teach learners how to remove obstracle from life by improving their communication skills. The course will help learner to strengthen inter personal relationship and highter their intellectual development

PG DEPARTMENT OF HINDI
B. A HINDI(Hons)

COURSE OUTCOME

Core Course – I – हिंदी साहित्य का इतिहास भाग 1 - हिंदी साहित्य के इतिहास ग्रन्थ से परिचित करते हुए आदिकाल, भक्ति काल, रीतिकाल की पृष्ठभूमि, प्रमुख काव्यधाराएं, उनकी प्रवृत्तियाँ, प्रमुख कवियों एवं उनकी रचनाओं से अवगत कराना I

Core Course – II – भक्तिकालीन हिंदी कविता – भक्तिकाल के निर्गुण और रामभक्ति काव्यधारा को जानकार प्रमुख कवि एवं उनकी कृति समझ सकेंगे I

Core Course – III – हिंदी साहित्य का इतिहास भाग 2 आधुनिक काल की सामाजिक, सांस्कृतिक और राजनैतिक पृष्ठभूमि को समझते हुए गद्य की प्रमुख विधाओं के उद्भव और विकास जान सकेंगे I

Core Course – IV – कृष्णभक्ति एवं रीतिकालीन हिंदी कविता - कृष्णभक्ति काव्य के प्रमुख कवि एवं उनकी कृतियों से परिचित होंगे I

Core Course – V – अनुवाद सिद्धांत - अनुवाद तथा इसके क्षेत्र, प्रक्रिया, प्रकार से अवगत होंगे I व्यावहारिक ज्ञान से अंग्रेजी से हिंदी अनुवाद और विपर्यय करने में सक्षम होंगे I

Core Course – VI – हिंदी कथा साहित्य (उपन्यास) - प्रेमचंद के उपन्यास साहित्य तथा महिला उपन्यासकार एवं स्त्री विमर्श से परिचित होंगे I गबन और आपका बंटी उपन्यास का ज्ञान प्राप्त करेंगे I

Core Course – VII – हिंदी कथा साहित्य (कहानी) – प्रमुख कहानियों को समझने के कौशल का विकास I उनकी जीवन दृष्टि का विस्तार होगा जिससे मानवीय मूल्यों को समझने में सक्षम होंगे I

Core Course – VIII कथा इतर गद्य साहित्य - कथेतर गद्य साहित्य के अंतर्गत आत्मकथा और जीवनी साहित्य की परंपरा और विकास से परिचित होंगे I रजिया और रामा रेखाचित्र को समझ सकेंगे I

Core Course – IX – आधुनिक हिंदी कविता (I) – मैथिलीशरण गुप्त, जयशंकर प्रसाद, निराला, महादेवी वर्मा की प्रमुख कविताओं के अध्ययन से रचनात्मक कौशल के साथ-साथ विद्यार्थियों में नैतिक मूल्यों का विकास होगा I

Core Course – X – भाषा विज्ञान और हिंदी भाषा - भाषा की परिभाषा, उत्पत्ति, विकास, परिवर्तन का कारण, भाषा विज्ञानं का संक्षिप्त अध्ययन, हिंदी भाषा का ऐतिहासिक विकास क्रम, भौगोलिक विस्तार, कंप्यूटर सुविधायें, लिपि की उत्पत्ति और विकास, विभिन्न लिपियों के परिचय के साथ- साथ देवनागरी लिपि की विशेषताओं के ज्ञान से विद्यार्थियों में भाषा के वैज्ञानिक अध्ययन की रूचि वृद्धि कर हिंदी भाषा के सटीक प्रयोग कौशल विकसित करना I

Core Course – XI – हिंदी नाटक और रंगमंच – छात्रों में अभिनय, रंगमंच के प्रति आकर्षण निर्माण करना I संवाद, लेखन, वाचन कौशल का विकास करना I

Core Course – XII - भारतीय काव्यशास्त्र – काव्य लक्षण, काव्य हेतु, काव्य प्रयोजन के सन्दर्भ में भारतीय दृष्टिकोण तथा भारतीय काव्यशास्त्र के विविध काव्य सिद्धांतों का ज्ञान कराना I

Core course – XIII – आधुनिक हिंदी कविता (II) – छायावादोत्तर, प्रगतिवाद और प्रयोगवाद की प्रमुख कविताओं से भाषाई कौशल के साथ – साथ मूल्यों का विकास करना I

Core course XIV – पाश्चात्य काव्यशास्त्र – भाषा और काव्य के सन्दर्भ में पाश्चात्य दृष्टिकोण, प्रमुख सिद्धान्त एवं वादों का अध्ययन से आलोचनात्मक दृष्टि का विकास करना I

AECC HINDI (MIL) – हिंदी के प्रसिद्ध कविता एवं निबंध से परिचित कराते हुए शब्द एवं वाक्य के शुद्ध प्रयोग पर बल देना I

DSE – I - तुलसीदास – तुलसीदास से परिचय कराते हुए उनके विचार और समन्यवादी दृष्टिकोण का ज्ञान देना I रामचरितमानस एवं विनयपत्रिका जैसे कालजयी कृति से परिचित कराना I

DSE – II – प्रेमचंद – प्रेमचंद साहित्य से परिचित कराते हुए उनके विचारों से अवगत कराना I

DSE – III – कार्यालयी हिंदी – प्रारूपण, टिप्पण, पत्र लेखन का परिचय, कंप्यूटर में हिंदी के प्रयोग की जानकारी, संविधान में हिंदी की स्थिति की जानकारी देना I

DSE – IV विज्ञापन: अवधारणा और प्रयोजनमूलक आयाम – विज्ञापन के स्वरुप और निर्माण का ज्ञान देते हुए रोजगार के अवसरों से परिचित कराना I

DSE – V – परियोजना कार्य - अनुवाद सिद्धांत और व्यवहार – अनुवाद का विस्तृत परिचय, कार्यालय, जनसंचार माध्याम, विधि, बैंक, साहित्य आदि में अनुवाद की उपयोगिता बताते हुए इस क्षेत्र में रोजगार की जानकारी देना I

GE - 1 - मध्यकालीन इतिहास और भक्ति कविता - भक्तिकाल के निर्गुण और सगुण भक्ति काव्यधारा को जानकर प्रमुख कवि एवं उनकी कृति समझ सकेंगे I

GE – 2 – साहित्य और सन्दर्भ : विविध वाद – विविध वादों के सिद्धांत और विचारधारा को समझने की शक्ति विकसित करना I

GE – 3 – साहित्यिक पत्रकारिता (हिंदी)- पत्रकारिता के स्वरुप से परिचित कराते हुए हिंदी पत्रकार और विभिन्न पत्रिकाओं की जानकारी देना I

GE – 4 – हिंदी सिनेमा और उसका अध्ययन – २१वीं सदी में हिंदी सिनेमा का विस्तृत परिचय देते हुए छात्रों को समाज पर उसके प्रभाव से अवगत कराना I

MA-HINDI

COURSE OUTCOME

SEMESTER 1

HNC 411 – हिंदी साहित्य का इतिहास भाग 1 - हिंदी साहित्य के इतिहास से परिचित करते हुए आदिकाल से लेकर रीतिकालीन साहित्य की पृष्ठभूमि, प्रमुख काव्यधाराएं, उनकी प्रवृत्तियाँ, प्रमुख कवियों एवं उनकी रचनाओं से अवगत कराना I

HNC 412 – आदिकालीन एवं निर्गुण भक्ति काव्य - आदिकाल के प्रमुख कवियों तथा उनके साहित्य की सम्यक विवेचना के साथ- साथ निर्गुण भक्ति काव्य की विभिन्न धाराओं का परिचय, उनके साहित्य का गहन अध्ययन तथा काव्यगत विशेषताओं से परिचित कराना I

HNC 413 –सगुण भक्ति एवं रीति काव्य - सगुण भक्ति काव्य धारा तथा रीतिकाल के कवियों का साहित्यिक, सामाजिक एवं सांस्कृतिक अवदान बताकर उनकी आलोचना करना I

HNC 414 - छायावादी काव्य - छायावाद की वैचारिक पृष्ठभूमि, प्रतिनिधि कवि एवं उनकी रचनाओं की काव्यगत विशेषताओं की उपलब्धियों की जानकारी देना I

HNC 415 – छायावादोत्तर काव्य - छायावादोत्तर काल की विविध काव्यधाराओं, प्रमुख कवियों की काव्य दृष्टि एवं दर्शन तथा हिदी साहित्य में उनके कार्य के महत्व दिग्दर्शित कराना I

SEMESTER 2

HNC 421 – हिंदी साहित्य का इतिहास भाग 2 - भारतेंदु युग में सांस्कृतिक पुनर्जागरण, भारतेंदु मंडल, द्विवेदी युग तथा खड़ी बोली हिंदी का विकास, सरस्वती पत्रिका का योगदान, हिंदी गद्य विधाओं का विकास, औद्योगीकरण की वृत्ति और साहित्य पर इसके प्रभाव I स्वतंत्रता आन्दोलन, देश विभाजन एवं साम्प्रदायिक घटनाओं का साहित्य पर नए प्रयोग, साठोत्तरी आंदोलन आदि से परिचित कराना I

HNC 422 –हिंदी कथा साहित्य - कालजयी कृति गोदान एवं इसके लेखक मुंशी प्रेमचंद की साहित्यिक विशेषताओं की आलोचना, मैला आँचल तथा आंचलिक उपन्यास का विवेचन, कहानी एवं बच्चन की आत्मकथा से जीवन में मानवीय मूल्यों की वृद्धि कराना I

HNC 423 – आधुनिक गद्य साहित्य - कथेतर गद्य साहित्य के अंतर्गत नाटक, निबंध, संस्मरण, रेखाचित्र, जीवनी के अध्ययन तथा हिंदी साहित्य के श्रेष्ठ कथेतर गद्य के शिल्प की समझ विकसित करना I

HNC 424 –भारतीय काव्य शास्त्र - काव्य लक्षण, काव्य हेतु, काव्य प्रयोजन के सन्दर्भ में भारतीय दृष्टिकोण तथा भारतीय काव्यशास्त्र के विविध काव्य सिद्धांतों एवं हिंदी आलोचना का ज्ञान कराना I

HNC 425 – भाषा विज्ञान एवं हिंदी भाषा - भाषा की परिभाषा, उत्पत्ति, विकास, परिवर्तन का कारण, भाषा विज्ञानं का संक्षिप्त अध्ययन, हिंदी भाषा का ऐतिहासिक विकास क्रम, भौगोलिक विस्तार, कंप्यूटर सुविधायें, लिपि की उत्पत्ति और विकास, विभिन्न लिपियों के परिचय के साथ- साथ देवनागरी लिपि की विशेषताओं के ज्ञान से विद्यार्थियों में भाषा के

वैज्ञानिक अध्ययन की रूचि वृद्धि कर हिंदी भाषा के सटीक प्रयोग कौशल विकसित करना I

IDC – हिंदी भाषा और साहित्य - हिंदी साहित्य के इतिहास का संक्षिप्त परिचय देते हुए इसके विविध रूपों की जानकारी देना I संविधान में हिंदी की दशा और दिशा बताकर हिंदी भाषा के महत्व और उपयोगिता से परिचित कराना I

SEMESTER 3

HNC 511 - हिंदी पत्रकारिता – पत्रकारिता के स्वरुप, प्रकार, उद्भव, विकास, हिंदी के प्रमुख पत्र- पत्रिका एवं पत्रकार की जानकारी I समाचार संकलन, सम्पादन, प्रमुख प्रेस क़ानून और आचार संहिता, साक्षात्कार के सम्यक अध्ययन से विद्यार्थियों में प्रभावी सम्प्रेषण एवं रोजगार के अवसर बढ़ाना I

HNC 512 – हिंदी आलोचना साहित्य – हिंदी आलोचना के उद्भव- विकास, विविध प्रकार, प्रमुख आलोचक- उनकी आलोचना दृष्टि, समीक्षा शैली तथा उनके रचनात्मक अवदान के सन्दर्भ में ज्ञान वृद्धि कराना I

HNC 513 – पाश्चात्य काव्यशास्त्र – भाषा और काव्य के सन्दर्भ में पाश्चात्य दृष्टिकोण, प्रमुख सिद्धान्त एवं वादों का अध्ययन I व्यावहारिक समीक्षा के अंतर्गत हिंदी के प्रमुख काव्य एवं निबंध की समीक्षा से छात्रों में आलोचनात्मक दृष्टि बढ़ाना I

HNC 514 – हिंदी कथा साहित्य में स्त्री विमर्श – हिंदी के प्रमुख महिला साहित्यकार एवं उनकी रचनाओं में चित्रित स्त्री समस्याओं एवं विशेषताओं के अध्ययन से पितृतात्मक समाज में नारी की स्थिति को समझते हुए उसे सही मान – सम्मान दिलाना I

HNC 515 – मीडिया लेखन – जनसंचार के विभिन्न माध्यमों से परिचित कर, उसकी भाषा, प्रभाव, निर्माण को समझते हुए मीडिया लेखन के लिए पारंगत करना I

SEMESTER 4

HNC 521 – कामकाजी हिंदी और हिंदी कंप्यूटिंग – प्रारूपण, टिप्पण, पत्र लेखन का परिचय, कंप्यूटर में हिंदी के प्रयोग की जानकारी, हिंदी के विविध रूपों से अवगत कराना I

HNC 522 – शोध प्रविधि- शोध की परिभाषा, प्रकार, महत्व की जानकारी देते हुए विद्यार्थियों को भावी जीवन में शोध के लिए प्रेरित करना I

HNC 523 – अनुवाद सिद्धांत और व्यवहार – अनुवाद का विस्तृत परिचय, कार्यालय, जनसंचार माध्याम, विधि, बैंक, साहित्य आदि में अनुवाद की उपयोगिता बताते हुए इस क्षेत्र में रोजगार की जानकारी देना I

HNC 524 – दलित साहित्य – दलित साहित्य की पृष्ठभूमि और विभिन्न दर्शनों के प्रभाव जान सकेंगे I प्रमुख दलित उपन्यास और कहानी के अध्ययन से विद्यार्थियों को मानव मात्र के प्रति संवेदनशील बनाते हुए नैतिक मूल्यों का विकास करना I

HNC 525 – परियोजना कार्य –किसी विषय के प्रति स्वयं की दृष्टि अपनाकर शोध क्षेत्र में पारंगत बनाना ।

The Department of Hindi
M.A. 2 Years Post Graduate Degree Course

PROGRAMME OUTCOME

विश्व - मानवतावाद एवं विश्व बंधुत्व की भावना से प्रेरित मानव जीवन को सुंदरतम बनाने के लिए प्रयत्नशील, जीवन- सापेक्ष साहित्य के द्वारा ऐसा संवेदनशील मनुष्य बनाना जिसमे प्राणी मात्र के दुख- सुख, राग- विराग को समझने की दृष्टि जागृत हो । हिन्दी साहित्य के गद्य और पद्य के विविध रूपों के भावगत एवं कलागत अध्ययन से भावों, विचारों, विमर्शों के विश्लेषण और विवेचन की समझ विकसित करना । हिन्दी भाषा के वैज्ञानिक अध्ययन से भाषा के सटीक प्रयोग की जानकारी प्रदान करना । अनुवाद एवं प्रयोजनमूलक हिन्दी से रोजगार के अवसरों से परिचित कराना । विभिन्न विमर्शों से समकालीन समाज को समझने तथा नैतिक मूल्यों की वृद्धि से मानव मात्र के प्रति उचित व्यवहार की समझ विकसित कराना । इस पाठ्यक्रम के माध्यम से छत्रों को प्रतियोगिता मूलक परीक्षाओं के लिए तैयार कर संघर्षमय जीवन में आगे बढ़ने के लिए प्रेरित करना । ताकि उनका भावी जीवन सुदृढ़, सुंदर बन सके ।

COURSE OUTCOME

SEMESTER 1

HNC 411 – हिंदी साहित्य का इतिहास भाग 1 - हिंदी साहित्य के इतिहास से परिचित करते हुए आदिकाल से लेकर रीतिकालीन साहित्य की पृष्ठभूमि, प्रमुख काव्यधाराएं, उनकी प्रवृत्तियाँ, प्रमुख कवियों एवं उनकी रचनाओं से अवगत कराना I

HNC 412 – आदिकालीन एवं निर्गुण भक्ति काव्य - आदिकाल के प्रमुख कवियों तथा उनके साहित्य की सम्यक विवेचना के साथ- साथ निर्गुण भक्ति काव्य की विभिन्न धाराओं का परिचय, उनके साहित्य का गहन अध्ययन तथा काव्यगत विशेषताओं से परिचित कराना I

HNC 413 –सगुण भक्ति एवं रीति काव्य - सगुण भक्ति काव्य धारा तथा रीतिकाल के कवियों का साहित्यिक, सामाजिक एवं सांस्कृतिक अवदान बताकर उनकी आलोचना करना I

HNC 414 - छायावादी काव्य - छायावाद की वैचारिक पृष्ठभूमि, प्रतिनिधि कवि एवं उनकी रचनाओं की काव्यगत विशेषताओं की उपलब्धियों की जानकारी देना I

HNC 415 – छायावादोत्तर काव्य - छायावादोत्तर काल की विविध काव्यधाराओं, प्रमुख कवियों की काव्य दृष्टि एवं दर्शन तथा हिदी साहित्य में उनके कार्य के महत्व दिग्दर्शित कराना I

SEMESTER 2

HNC 421 – हिंदी साहित्य का इतिहास भाग 2 - भारतेंदु युग में सांस्कृतिक पुनर्जागरण, भारतेंदु मंडल, द्विवेदी युग तथा खड़ी बोली हिंदी का विकास, सरस्वती पत्रिका का योगदान, हिंदी गद्य विधाओं का विकास, औद्योगीकरण की वृत्ति और साहित्य पर इसके प्रभाव I स्वतंत्रता आन्दोलन, देश विभाजन एवं साम्प्रदायिक घटनाओं का साहित्य पर नए प्रयोग, साठोत्तरी आंदोलन आदि से परिचित कराना I

HNC 422 –हिंदी कथा साहित्य - कालजयी कृति गोदान एवं इसके लेखक मुंशी प्रेमचंद की साहित्यिक विशेषताओं की आलोचना, मैला आँचल तथा आंचलिक उपन्यास का विवेचन, कहानी एवं बच्चन की आत्मकथा से जीवन में मानवीय मूल्यों की वृद्धि कराना I

HNC 423 – आधुनिक गद्य साहित्य - कथेतर गद्य साहित्य के अंतर्गत नाटक, निबंध, संस्मरण, रेखाचित्र, जीवनी के अध्ययन तथा हिंदी साहित्य के श्रेष्ठ कथेतर गद्य के शिल्प की समझ विकसित करना I

HNC 424 –भारतीय काव्य शास्त्र - काव्य लक्षण, काव्य हेतु, काव्य प्रयोजन के सन्दर्भ में भारतीय दृष्टिकोण तथा भारतीय काव्यशास्त्र के विविध काव्य सिद्धांतों एवं हिंदी आलोचना का ज्ञान कराना I

HNC 425 – भाषा विज्ञान एवं हिंदी भाषा - भाषा की परिभाषा, उत्पत्ति, विकास, परिवर्तन का कारण, भाषा विज्ञानं का संक्षिप्त अध्ययन, हिंदी भाषा का ऐतिहासिक विकास क्रम, भौगोलिक विस्तार, कंप्यूटर सुविधायें, लिपि की उत्पत्ति और विकास, विभिन्न लिपियों के परिचय के साथ- साथ देवनागरी लिपि की विशेषताओं के ज्ञान से विद्यार्थियों में भाषा के वैज्ञानिक अध्ययन की रूचि वृद्धि कर हिंदी भाषा के सटीक प्रयोग कौशल विकसित करना I

IDC – हिंदी भाषा और साहित्य - हिंदी साहित्य के इतिहास का संक्षिप्त परिचय देते हुए इसके विविध रूपों की जानकारी देना I संविधान में हिंदी की दशा और दिशा बताकर हिंदी भाषा के महत्व और उपयोगिता से परिचित कराना I

SEMESTER 3

HNC 511 - हिंदी पत्रकारिता – पत्रकारिता के स्वरुप, प्रकार, उद्भव, विकास, हिंदी के प्रमुख पत्र- पत्रिका एवं पत्रकार की जानकारी I समाचार संकलन, सम्पादन, प्रमुख प्रेस क़ानून और आचार संहिता, साक्षात्कार के सम्यक अध्ययन से विद्यार्थियों में प्रभावी सम्प्रेषण एवं रोजगार के अवसर बढ़ाना I

HNC 512 – हिंदी आलोचना साहित्य – हिंदी आलोचना के उद्भव- विकास, विविध प्रकार, प्रमुख आलोचक- उनकी आलोचना दृष्टि, समीक्षा शैली तथा उनके रचनात्मक अवदान के सन्दर्भ में ज्ञान वृद्धि कराना I

HNC 513 – पाश्चात्य काव्यशास्त्र – भाषा और काव्य के सन्दर्भ में पाश्चात्य दृष्टिकोण, प्रमुख सिद्धान्त एवं वादों का अध्ययन I व्यावहारिक समीक्षा के अंतर्गत हिंदी के प्रमुख काव्य एवं निबंध की समीक्षा से छात्रों में आलोचनात्मक दृष्टि बढ़ाना I

HNC 514 – हिंदी कथा साहित्य में स्त्री विमर्श – हिंदी के प्रमुख महिला साहित्यकार एवं उनकी रचनाओं में चित्रित स्त्री समस्याओं एवं विशेषताओं के अध्ययन से पितृतात्मक समाज में नारी की स्थिति को समझते हुए उसे सही मान – सम्मान दिलाना I

HNC 515 – मीडिया लेखन – जनसंचार के विभिन्न माध्यमों से परिचित कर, उसकी भाषा, प्रभाव, निर्माण को समझते हुए मीडिया लेखन के लिए पारंगत करना I

SEMESTER 4

HNC 521 – कामकाजी हिंदी और हिंदी कंप्यूटिंग – प्रारूपण, टिप्पण, पत्र लेखन का परिचय, कंप्यूटर में हिंदी के प्रयोग की जानकारी, हिंदी के विविध रूपों से अवगत कराना I

HNC 522 – शोध प्रविधि- शोध की परिभाषा, प्रकार, महत्व की जानकारी देते हुए विद्यार्थियों को भावी जीवन में शोध के लिए प्रेरित करना I

HNC 523 – अनुवाद सिद्धांत और व्यवहार – अनुवाद का विस्तृत परिचय, कार्यालय, जनसंचार माध्याम, विधि, बैंक, साहित्य आदि में अनुवाद की उपयोगिता बताते हुए इस क्षेत्र में रोजगार की जानकारी देना I

HNC 524 – दलित साहित्य – दलित साहित्य की पृष्ठभूमि और विभिन्न दर्शनों के प्रभाव जान सकेंगे I प्रमुख दलित उपन्यास और कहानी के अध्ययन से विद्यार्थियों को मानव मात्र के प्रति संवेदनशील बनाते हुए नैतिक मूल्यों का विकास करना I

HNC 525 – परियोजना कार्य –किसी विषय के प्रति स्वयं की दृष्टि अपनाकर शोध क्षेत्र में पारंगत बनाना ।

The Department of Hindi
B. A. 3 Years Undergraduate Course
PROGRAMME OUTCOME

हिंदी साहत्य के इस पाठ्यक्रम के माध्यम से विश्व साहित्य के विविध रूपों, विचारधाराओं, विमर्शों और शैलियों के परिचय के साथ विश्व संस्कृति और समाज का दिग्दर्शन कराना I छात्रों में नैतिक मूल्यों एवं संघर्ष क्षमता विकास कराना I इसके अध्ययन से भाषाई कौशल का ज्ञान बढ़ाना I हिंदी भाषा के शुद्ध प्रयोग पर जोर देना I साहित्य से भावों, विचारों एवं विमर्शों के विश्लेषण और विवेचन की समझ विकसित करना I प्रयोजनमूलक हिंदी, मीडिया लेखन, जनसंचार माध्यम से रोजगार के अवसर से परिचित कराना I साथ ही विभिन्न प्रतियोगितामूलक परीक्षा के लिए तैयार करना इस पाठ्यक्रम का लक्ष्य तथा उद्देश्य है I

COURSE OUTCOME

Core Course – I – हिंदी साहित्य का इतिहास भाग 1 - हिंदी साहित्य के इतिहास ग्रन्थ से परिचित करते हुए आदिकाल, भक्ति काल, रीतिकाल की पृष्ठभूमि, प्रमुख काव्यधाराएं, उनकी प्रवृत्तियाँ, प्रमुख कवियों एवं उनकी रचनाओं से अवगत कराना I

Core Course – II – भक्तिकालीन हिंदी कविता – भक्तिकाल के निर्गुण और रामभक्ति काव्यधारा को जानकार प्रमुख कवि एवं उनकी कृति समझ सकेंगे I

Core Course – III – हिंदी साहित्य का इतिहास भाग 2 आधुनिक काल की सामाजिक, सांस्कृतिक और राजनैतिक पृष्ठभूमि को समझते हुए गद्य की प्रमुख विधाओं के उद्भव और विकास जान सकेंगे I

Core Course – IV – कृष्णभक्ति एवं रीतिकालीन हिंदी कविता - कृष्णभक्ति काव्य के प्रमुख कवि एवं उनकी कृतियों से परिचित होंगे I

Core Course – V – अनुवाद सिद्धांत - अनुवाद तथा इसके क्षेत्र, प्रक्रिया, प्रकार से अवगत होंगे I व्यावहारिक ज्ञान से अंग्रेजी से हिंदी अनुवाद और विपर्यय करने में सक्षम होंगे I

Core Course – VI – हिंदी कथा साहित्य (उपन्यास) - प्रेमचंद के उपन्यास साहित्य तथा महिला उपन्यासकार एवं स्त्री विमर्श से परिचित होंगे I गबन और आपका बंटी उपन्यास का ज्ञान प्राप्त करेंगे I

Core Course – VII – हिंदी कथा साहित्य (कहानी) – प्रमुख कहानियों को समझने के कौशल का विकास I उनकी जीवन दृष्टि का विस्तार होगा जिससे मानवीय मूल्यों को समझने में सक्षम होंगे I

Core Course – VIII कथा इतर गद्य साहित्य - कथेतर गद्य साहित्य के अंतर्गत आत्मकथा और जीवनी साहित्य की परंपरा और विकास से परिचित होंगे I रजिया और रामा रेखाचित्र को समझ सकेंगे I

Core Course – IX – आधुनिक हिंदी कविता (I) – मैथिलीशरण गुप्त, जयशंकर प्रसाद, निराला, महादेवी वर्मा की प्रमुख कविताओं के अध्ययन से रचनात्मक कौशल के साथ-साथ विद्यार्थियों में नैतिक मूल्यों का विकास होगा I

Core Course – X – भाषा विज्ञान और हिंदी भाषा - भाषा की परिभाषा, उत्पत्ति, विकास, परिवर्तन का कारण, भाषा विज्ञानं का संक्षिप्त अध्ययन, हिंदी भाषा का ऐतिहासिक विकास क्रम, भौगोलिक विस्तार, कंप्यूटर सुविधायें, लिपि की उत्पत्ति और विकास, विभिन्न लिपियों के परिचय के साथ- साथ देवनागरी लिपि की विशेषताओं के ज्ञान से विद्यार्थियों में भाषा के वैज्ञानिक अध्ययन की रूचि वृद्धि कर हिंदी भाषा के सटीक प्रयोग कौशल विकसित करना I

Core Course – XI – हिंदी नाटक और रंगमंच – छात्रों में अभिनय, रंगमंच के प्रति आकर्षण निर्माण करना I संवाद, लेखन, वाचन कौशल का विकास करना I

Core Course – XII - भारतीय काव्यशास्त्र – काव्य लक्षण, काव्य हेतु, काव्य प्रयोजन के सन्दर्भ में भारतीय दृष्टिकोण तथा भारतीय काव्यशास्त्र के विविध काव्य सिद्धांतों का ज्ञान कराना I

Core course – XIII – आधुनिक हिंदी कविता (II) – छायावादोत्तर, प्रगतिवाद और प्रयोगवाद की प्रमुख कविताओं से भाषाई कौशल के साथ – साथ मूल्यों का विकास करना I

Core course XIV – पाश्चात्य काव्यशास्त्र – भाषा और काव्य के सन्दर्भ में पाश्चात्य दृष्टिकोण, प्रमुख सिद्धान्त एवं वादों का अध्ययन से आलोचनात्मक दृष्टि का विकास करना I

AECC HINDI (MIL) – हिंदी के प्रसिद्ध कविता एवं निबंध से परिचित कराते हुए शब्द एवं वाक्य के शुद्ध प्रयोग पर बल देना I

DSE – I - तुलसीदास – तुलसीदास से परिचय कराते हुए उनके विचार और समन्यवादी दृष्टिकोण का ज्ञान देना I रामचरितमानस एवं विनयपत्रिका जैसे कालजयी कृति से परिचित कराना I

DSE – II – प्रेमचंद – प्रेमचंद साहित्य से परिचित कराते हुए उनके विचारों से अवगत कराना I

DSE – III – कार्यालयी हिंदी – प्रारूपण, टिप्पण, पत्र लेखन का परिचय, कंप्यूटर में हिंदी के प्रयोग की जानकारी, संविधान में हिंदी की स्थिति की जानकारी देना I

DSE – IV विज्ञापन: अवधारणा और प्रयोजनमूलक आयाम – विज्ञापन के स्वरुप और निर्माण का ज्ञान देते हुए रोजगार के अवसरों से परिचित कराना I

DSE – V – परियोजना कार्य - अनुवाद सिद्धांत और व्यवहार – अनुवाद का विस्तृत परिचय, कार्यालय, जनसंचार माध्याम, विधि, बैंक, साहित्य आदि में अनुवाद की उपयोगिता बताते हुए इस क्षेत्र में रोजगार की जानकारी देना I

GE - 1 - मध्यकालीन इतिहास और भक्ति कविता - भक्तिकाल के निर्गुण और सगुण भक्ति काव्यधारा को जानकर प्रमुख कवि एवं उनकी कृति समझ सकेंगे I

GE – 2 – साहित्य और सन्दर्भ : विविध वाद – विविध वादों के सिद्धांत और विचारधारा को समझने की शक्ति विकसित करना I

GE – 3 – साहित्यिक पत्रकारिता (हिंदी)- पत्रकारिता के स्वरुप से परिचित कराते हुए हिंदी पत्रकार और विभिन्न पत्रिकाओं की जानकारी देना I

GE – 4 – हिंदी सिनेमा और उसका अध्ययन – २१वीं सदी में हिंदी सिनेमा का विस्तृत परिचय देते हुए छात्रों को समाज पर उसके प्रभाव से अवगत कराना I

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पाठ्यक्रमस्य उद्देश्यं लाभानि च (COs)

प्रथमसत्रम् -१

४११-वैदिकसाहित्यम् उपनिषद् निरुक्तं च

अनेन ऋग्वेदे विद्यमानसूक्तानां बाह्मणग्रन्थानाम् उपनिषदां निरुक्तस्य च अध्ययनेन वैदिकसाहित्यस्य परिचयं, स्वरूपं, दुरुहशव्दानां निर्वचनं शब्दव्युत्पत्तिविषकावबोधनम् ।

४१२- संस्कृतव्याकरणम्

व्याकरणाध्ययनस्य प्रयोजनं सन्धिविषयक-ज्ञानं साध्वसाधुशब्दानां च प्रयोगे क्षमतोत्पादनम् ।

४१३- शास्त्रीयसाहित्यम्

तत्कालीनसामाजिक-राजनैतिक-सांस्कृतिकज्ञानेन सह परिचय: , कवीनां काव्यपठनेन सृजनात्मकशक्ते: विकासश्च ।

४१४- भारतीयदर्शनम्

सांख्यकारिका-वेदान्तसारयो: अध्ययनेन दर्शनस्य आधारभूतसिद्धान्तेन सह परिचय:, छात्रा: सत्यान्वेषिण: मनस्विन: आत्मावलोकने च समर्था: भवन्ति । शारीरिकमानसिकाध्यात्मिकविकासेन जीवनस्य मूल्यं ज्ञानेन च स्वस्थसमाजस्य संरचना भविष्यति ।

४१५- वैदिकसाहित्येतिहास:

अस्य अध्ययनेन संहिता-ब्राह्मण-आरण्यक-उपनिषदां च सामान्य-परिचय:,

वेदाङ्गसाहित्ये शिक्षा-कल्प-निरुक्तादिग्रन्थविषयकज्ञानम्, वेदानां

भारतीयपाश्चात्य-वेदभाष्यकाराणां जीवनै: सह परिचय: ।

द्वितीयसत्रम् -२

४२१- नाट्यसाहित्यम्

भवभूते: उत्तररामचरितस्य अध्ययनेन करुणरसविषयकज्ञानं तथा रामायण-उत्तररामचरितयोर्मध्ये अन्तरमवबोधनम् ।

४२२- संस्कृतव्याकरणम्

वरदराजप्रणीतस्य सिद्धान्तकौमुद्या: सन्धीनाम् (अच् सन्धि: हल्सन्धि: विसर्गसन्धि: च) अध्ययनेन संस्कृतभाषाया: लेखने पठने च निपुणा: भवन्ति । समासमधिगमस्य दुरूहविषयं सरलरीत्या बोद्धुं शक्नुवन्ति, अन्यच्च पाणिने: वैज्ञानिकशैल्या सह परिचिता: भवन्ति ।

४२३- भारतीयदर्शनम्

भारतीय-आस्तिकनास्तिकदर्शनयो: मूलभूतावधारणाभि: सह परिचिता: भविष्यन्ति, प्रमाण-प्रमेयपुरस्सर: न्यायवैशेषिकयो: सिद्धान्तानां विश्लेषणे च समर्था; भवन्ति ।

४२४- धर्मशास्त्रम् अर्थशास्त्रम् च

धर्मशास्त्रस्य अध्ययनेन तत्कालिकसमाजस्य परिस्थिते: ज्ञानं, मनो: दण्डावस्था, राज्ञ: कर्त्तव्यानि, अमात्यनियुक्ति:, दुर्गमहत्त्वं, दूतस्य कर्त्तव्यानि च विषये ज्ञानम् । कौटिल्यस्य अर्थशास्त्रेण सामाजिक-राजनैतिक-मनोवैज्ञानिकरूपेण च सुदृढा: भूत्वा स्वस्थसमाजनिर्माणे सहायका: भवन्ति ।

४२५ महाकाव्यं गीतिकाव्यम् च

अनेन कालिदासस्य उत्कृष्टशैल्या सह परिचय:, कवे: काव्यसौन्दर्यं, सरलसुमधुरभाषा उपमालङ्कारे पाण्डित्यं वीक्ष्य स्वयमपि काव्यकौशले प्रवृत्ता: भवन्ति ।

४२६ आइ.डि.सि- अस्मिन् पत्रे अन्य-विभागीयछात्रा: संस्कृते विद्यमानं नैतिकज्ञानेन सह परिचिता: भवन्ति । संस्कृतस्य गरिमाविषये विज्ञाय नीतिसम्बन्धितं श्लोकं पठन्ति । चाणक-मनु- भर्तृहरिचेत्यादीनां पण्डितानां जीवनविषये जानन्ति ।

तृतीयसत्रम् -३

५११- वैदिकसाहित्यं प्रातिशाख्यं निरुक्तञ्च

ऋग्वेदीय-संवादसूक्तानां ज्ञानम्, प्रातिशाख्यविषयकं च ज्ञानं लभते ।

५१२- संस्कृतव्याकरणम्

स्त्रीप्रत्ययस्याध्ययनेन छात्रा: संस्कृतसम्भाषणे लिङ्गज्ञाने च निपुणा: भविष्यन्ति । सिद्धान्तकौमुद्या: अध्ययनेन च व्याकरणे सिद्धा: भवन्ति ।

५१३- भाषाविज्ञानम्

भाषाया: उत्पति-स्वरुप-विकाशादीनां वैज्ञानिकम् एवं विश्लेषणात्मकमध्ययनम् । भारोपीय-भाषाणां परिचयेन साकं ध्वन्यार्थपरिवर्तनयो: व्यापकमध्ययनम् । भाषाध्ययनविषये वैज्ञानिकदृष्टिकोणस्य विकास:, मातृभाषया सह अन्यभाषाणां सम्बन्धज्ञानम् ।

५१४-(अ) वैदिकाध्ययनम्

शतपथ-ऐतरेय-तैतिरीयब्राह्मणग्रन्थानां च अध्ययनेन कर्मकाण्ड-आध्यात्मिकविषयकं ज्ञानं लभते ।

(व) शास्त्रीय-काव्यशास्त्रम्

साहित्यदर्पणाध्ययनेन नाट्यशास्त्रस्याध्ययनेन च काव्य-शब्दशक्ति-रसालङ्कार-ध्वनिविषयकज्ञानवर्धनम् । काव्यस्य विविधाङ्गै: सह परिचय: । छात्राणां साहित्यपठने रचनायां च रुचि: वर्धते ।

(स) संस्कृतव्याकरणं व्याकरणदर्शनञ्च

व्याकरणशास्त्रस्य इतिहासेन साकं सामान्यपरिचय: । व्याकरणस्याचार्याणां दुरूहग्रन्थशैल्या सह परिचय: । त्रिमुनिव्याकरणपरम्परा-प्रक्रियापरम्पराविषयकज्ञानम् । मत्वर्थप्रत्ययस्य अध्ययनं, संस्कृतभाषादक्षतावर्धनम् ।

५१५- (अ) वैदिकसाहित्यमध्ययनम्

(अ) अनेन वेदसम्बन्धितमूलभूत-सिद्धन्तानां ज्ञानम् । निरुक्ताध्ययनेन वैदिकशब्दानां व्युत्पत्तिपरकज्ञानम् ।

(व) शास्त्रीयसाहित्यम्

अनेन अध्ययनेन चाणक्यस्य कूटनीति-राजनीतिज्ञानेन सह छात्रा: पल्लविता: भवन्ति । तत्कालीनसमाजस्य स्थितिविषयं च अवगच्छन्ति ।

(स) व्याकरणं व्याकरणदर्शनञ्च

सिद्धान्तकौमुद्या: अध्ययनेन छात्राणां व्याकरणज्ञानं सुदृढं भवति । वाक्यपदीये व्याकरणस्य दर्शनत्वं विजानन्ति । प्रतियोगीतापरिक्षाया: कृते अयं ग्रन्थ: बहु हितकारी ।

चतुर्थसत्रम् -४

(५२१) संस्कृतसाहित्यम्

हर्षचरितस्याध्ययनेन तत्कालीनसमाजे राज्ञां शासनव्यवस्थाविषये छात्रा: अवगता: भविष्यन्ति तथा च गद्यसाहित्यस्य महतीपरम्परया सह परिचिता: भविष्यन्ति । भगवत: बुद्धस्य जीवनचरितं दर्शनं च जानन्ति ।

(५२२) शोधप्रविधि:

अनेन शोधस्य प्रकार-परिसर-प्रणाली-विषयचयन-सामग्रीसंकलनं च अधीत्य उत्तमशोधार्थी भवितुमर्हन्ति । गवेषणाकार्यार्थं प्रेरिता: भवन्ति ।

(५२३) (अ) वैदिकाध्ययनं व्याकरणञ्च

अत्र उदत्तदि स्वरा:, वर्णसंधय:, वर्णोच्चरणस्य गुणदोषा:, वर्णोत्पत्ति:, पदपाठात् संहितापाठकरणे नियमा: इत्यादि अनेकमहत्वपूर्णविषया: वर्णिता: सन्ति । वैदिकप्रक्रियया वेदानां सम्यक् अवबोधने सहायिका भवति ।

(व) संकृतकाव्यशास्त्रम्

काव्यशास्त्रस्य अध्ययनेन रस-रीति-गुण-अलङ्कार-शब्दशक्तिविषये सम्यक् विज्ञाय उत्तमकाव्यस्य गुण-दोषान् च ज्ञात्वा दोषपरिहारे निपुणा: भवन्ति ।

(स) व्याकरणं व्याकरणदर्शनम् च

सिद्धान्तकौमुद्या: अध्ययनेन छात्राणां व्याकरणज्ञानं सुदृढं भवति । वैयाकरणभूषणसारस्याध्यनेन बुद्धे: चरमविकास: भवति । धात्वर्थनिर्णयप्रकरणं च जानन्ति ।

(५२४) (अ)वैदिकसाहित्यं

अनेन ऋग्वेदे विद्यमानसूक्तानां बाह्मणग्रन्थानाम् उपनिषदां च अध्ययनेन वैदिकसाहित्यस्य परिचयं, स्वरूपं च जानन्ति ।

(व) संकृतकाव्यशास्त्रम्

ध्वन्यालोक-रसगङ्गाधरस्याध्ययनेन रस-रीति-गुण-अलङ्कार-शब्दशक्तिविषये सम्यक् विज्ञाय उत्तमकाव्यस्य गुण-दोषान् च ज्ञात्वा दोषपरिहारे निपुणा: भवन्ति ।

(स) व्याकरणं व्याकरणदर्शनम् च

काश्यप-आपिशलि-गार्ग्य-गालव-भारद्वाजादि संस्कृतवैयाकरणानां जीवनपरिचयं ग्रन्थपरिचयं च ज्ञास्यन्ति । परमलघुमञ्जुषाया: अध्ययनेन व्याकरणस्य सूक्ष्मतत्त्वं विजानन्ति ।

५२५ -परियोजनाकार्यम् - अनेन छात्राणां सर्जनात्मकशक्ते: विकास: भवति । शोधकार्ये च प्रवृत्ता: भविष्यन्ति ।