SONARI COLLEGE

Affiliated to Dibrugarh University

AQAR for the period: 2023-24

Criterion 2	**TEACHING- LEARNING AND EVALUATION**
Key Indicator 2.6	**STUDENT PERFORMANCE AND LEARNING OUTCOMES**
Metric No. 2.6.1	**Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution**

Submitted to NAAC NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Submitted by IQAC, Sonari College, P.O. Sonari,
Dist : Charaideo, PIN : 785690 (Assam)

2.6.1- Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution

The departments follow a comprehensive mechanism to effectively communicate learning outcomes to both teachers and students. Hard copies of syllabi and learning outcomes are made available in the departments for easy reference, while soft copies of the curriculum and outcomes are also uploaded on the college website. The importance of learning outcomes is emphasized in department meetings at the beginning of each semester. Additionally, students are introduced to these outcomes during the department's induction program. At the start of each course, students are informed about the course-specific outcomes by the respective teachers, alongside the syllabus. This structured approach ensures clear and consistent communication of learning objectives, fostering better understanding and alignment for all stakeholders.

Department of Assamese

Course Outcome for 1st and 2nd semester (NEP)

FOUR YEARS UNDER GRADUATE PROGRAMME (FYUGP)

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**
1ST Semester	**Asomiya Bhasha aru Lipir Porichaymulok Itihas (Introduction to History of Assamese Language and Script)**	Major (Core)	**ASMC1**	**CO1**: General Introduction to Assamese language and Dialects will be provided. **CO2**: Various views on the origin and emergence of the Assamese language will be introduced. **CO3**: Introduction to the history of Assamese Language. **CO4**: An Overview of the Origin and Development of the Assamese Script will be given.
	Asomar Bhsasha aru Lipi (Language and Scripts of Assam)	Minor	**MINASM 1**	**CO1**: A general Introduction to the languages spoken in Assam will be given. **CO2**: An overview of Assamese Language and Dialects will be given.

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				CO3: Introduction to the exchange of linguistic components of Assamese Language and Non-Aryan Language. **CO4**: Introduction to Assamese Script and Scripts of other Languages of Assam.
	Asomiya Bhashar kaushal aru dakshyata Bikash (Skill and ability Enhancement in Assamese Language)	Ability Enhancement Course (AEC)	**AECASM1**	**CO1**: Introduction to speaking and writing skills of Assamese Language. **CO2**: Introduction to various aspects of the use of Assamese language - 1. - Learn about different types of letter and report writing techniques. **CO3**: Introduction to various aspects of the use of Assamese language - 2 - Acquire techniques for critiquing scholarly articles and selected texts. **CO4**: Test of comprehension of Language and Literature.
	Byaktittwa Bikash aru Sukumar Kaushal (Personality Development and Soft Skill	Skill Enhancement Course (SEC)	**SEC116**	**CO1**: Concepts of Personality. **CO2**: Different Aspects of Personality Development. **CO3**: Role of Soft Skills in Personality Development. **CO4**: Selected Texts
2nd Semester	**Asomiya Sahityar Porichaymulok Itihas (Introduction to History of Assamese Literature**	Major (Core)	**ASMC2**	**CO1**: An Introduction to Background of Assamese Literature. **CO2**: Concepts of the Era division of Assamese literature **CO3**: Introduce the early periods of Assamese literature and period neutral literature. **CO4**: An introduction to old Assamese Literature **CO5**: An introduction to modern Assamese Literature
	Asomiya Sahityar Buranji (History of Assamese Literature)	Minor	**MINASM 2**	**CO1**: Concepts of the Era division of Assamese literature **CO2**: An Introduction to old Assamese Literature. **CO3**: An Introduction to the Early Stages of Modern Assamese Literature.

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				CO4: An Introduction to the Literature at the Junaki Yug/Era. **CO5**: An Introduction to the Literature at the Post Junaki Era.
	Chapa maidhyamr Bigyapon Prastutkaron (Advertisement Preparation of Print Media)	Skill Enhancement Course (SEC)	**SEC216**	**CO1**: Basic knowledge of Advertising. **CO2**: An Introduction to the Various Advertising Media and Types of Advertising. **CO3**: Basic Concepts of Advertising Preparation in Print Media **CO4**: : Basic Concepts of Advertising Preparation

Course Outcome for 3rd, 4th, 5th and 6th semester (CBCS):

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**
3rd Sem.	**Sahitya Samalosona (Literary Criticism)**	Major	**C-5**	**CO1**: Students will be able to learn the concepts of Literature, Classification of Literature, the definition and nature of criticism, Essential qualities of Critics, Methods of Literary Criticism (Historical, analytical, Comparative Methods)Definition and nature of different Literary Genres(Poetry, Drama ,Play, Novel, Short story).
	Asomiya Kobitar Chaneki (Selection from Asamese Poetry)	Major	**C-6**	**CO1**. To provide a brief history of Assamese Poetry, Assamese Folk Poetry (Zikir, Nahor malita), Ancient Assamese Poetry (Charyyapada) and Old Assamese Poems (Madhav kandali's Ramayana and Sankaradeva's Bargeet).
	Asomar Sanskriti Adhyan (Studies on the Culture of Assam)	Major	**C-7**	**CO1**. Students will be able to learn about the definition, Nature and Components of Culture studies, Introduction to the ethnic groups of Assam, Folklore and folk beliefs of different ethnic groups of Assam., Traditional Assamese Costumes and

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				ornaments, Architecture and sculpture of Assam.
	Asomiya Sahityar Buranji (History of Assamese Literature)	Non-Major	**MIL-1**	**CO1**. To provide an overview of the history of Assamese literature through various periods .Era division of Assamese literature (from Prak- Sankari to present) will be provided.
4th Sem.	**Tulonamlak Sahityar Paddhati aru Prayug (Theory and Practice of Comparative Literature)**	Major	**C-8**	**CO1**.The paper will give an overview of the relevance and methodology of comparative literary studies in the context of Indian literature and Assamese literature. Students will be able to learn about the Origins and introduction to Comparative literature ,The main aspects of the study of the Comparative Literature, Comparative literature in the Indian Contexts,, comparative Literature in Assam
	Bharotiya Aryya Bhasha aru Asomiya Bhasha (Indo- Aryan Languages and Assamese)	Major	**C-9**	**CO1**. This paper will provide an introduction to the development of Indo Aryan Languages and the grammatical features of Sanskrit, Pali and Prakrit and the origin and development of Assamese Language. Selected lessons in Sanskrit, Pali and Prakrit are given to introduce the students of these languages.
	Asomiya Gadyar Chaneki (Ka) (Selection from Assamese Prose)	Major	**C-10**	**CO1**. The course gives an Introduction to the origin and development of Assamese prose literature and selected parts of Assamese prose literature from Bhattadev's to present .
	Asomiya Sahityar Chaneki (Selection from Assamese Literature)	Non-Major	**MIL-2**	**CO1**. In this paper, Students will have the chance to study the Charyapada, the first literary work in the Assamese language, along with a selection of texts from Assamese literature covering different periods, up to the post war era.

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5th Semeseter	**Asomiya Natok (Assamese Drama)**	Major	**C-11**	**CO1**. From this paper, students will learn a brief history of Assamese Drama literature, Old Assamese Play, Modern Assamese Drama.
	Asomiya Bhashar Bhasha Baigyanik Adhyan (Studies on Assamese Linguistics)	Major	**C-12**	**CO1**. This paper will provide an introduction to the phonology, morphology and Syntax of the Assamese Language. **CO2**. Introductory concepts of 'Grammaticalness' of Assamese language and syntactic analysis of Assamese Language.
	Asomiya Byakaran, Abhidhan aru Jatua Prayug (Assamese Grammar, Lexicon and Idiomatic Usages)	Major	**DSE- 1**	**CO1**. Students will able to learn about Pronunciation and spelling of Assamese language, General introduction to Assamese Grammar, concepts of Terminology, Introduction to Administrative Terminology, Use of phrases and idioms.
	Bharatiyo Sahityar Porichay (Introduction to Indian Literature)	Major	**DSE-2**	**CO1**. Students will learn about concepts of Indian Literature, Patterns of Indian Poetry, Patterns of Indian Short Stories, Patterns of Indian Novel, Patterns of Indian Drama.
6th Semester	**Asomiya Gadyar Chaneki (Kh) (Selection from Assamese Prose)**	Major	**C-13**	**CO1**. Selected Prose texts- Assamese Short story, Assamese Novel, Assamese Autobiography and Biography, Assamese Travel Story, personal essays and Scientific Literature of Assamese.
	Asomar Bhasha aru Lipi	Major	**C-14**	**CO1**. Students will acquaint with a general Introduction to the languages of Assam, Assamese Language and Dialects, Languages of the Sino Tibetan family of Assam, the exchange of Assamese and non-Aryan languages of Assam, Assamese script and scripts of other languages of Assam.
	Biswa Sahityar	Major	**DSE -3**	**CO1**. To introduce the Concepts of

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	Porichay (Introduction to World Literature)			World Literature, Abhigyanam Sakuntalam, Selected Short stories,Poems,Drama(Foreign),
	Project	Major	**DSE -4(B)**	**CO1**. This paper will provide experience of conducting research in practical field with general concepts of research work on Assamese language, literature and culture.

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Department of Botany

Course Outcome for 1st and 2nd semester (NEP)

FOUR YEARS UNDER GRADUATE PROGRAMME (FYUGP)

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**
1st Semester	**Algae, Fungi, Bryophyte &Pteridophyte**	Major	**BOTC1**	**CO1**: Describe different groups of the plant kingdom like algae, fungi, bryophyte and pteridophyte **CO2**: organize the organisms into different categories based on morphological characteristics **CO3**: analyze the interrelationship among different species and genera within each group of plants
	Algae, Fungi, Bryophyte &Pteridophyte	Minor	**BOTMIN 01**	**CO1**: Describe different groups of the plant kingdom like algae, fungi, bryophyte and pteridophyte **CO2**: organize the organisms into different categories based on morphological characteristics **CO3**: analyze the interrelationship among different species and genera within each group of plants
	Natural Resource Management	Generic Elective Course (GEC)	**BOTGEC1**	**CO1**: Distinguish between renewable and non-renewable resources. **CO2**: Analyse threats to natural and biological resources of NE India **CO3**: Examine management strategies for sustainable utilization of resources.
	Tea plantation and management	Skill Enhancement Course (SEC)	**SEC 01 A**	**CO1**: Distinguish between different tea species and varieties **CO2**: Analyze threats to tea plantation management **CO3**: Examine management strategies small tea gardens.
2nd Semester	**Morphology and Reproduction of Spermatophyte**	Major	**BOTC2**	**CO1**: Describe different groups of gymnosperms and angiosperms **CO2**: Examine the morphology and reproductive processes in gymnosperms

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	s			and angiosperms characteristics. **CO3**: analyze the interrelationship among different species and genera of gymnosperms and angiosperms
	Morphology and Reproduction of Spermatophytes	Minor	**BOTMIN 2**	**CO1**: Describe different groups of gymnosperms and angiosperms **CO2**: Examine the morphology and reproductive processes in gymnosperms and angiosperms characteristics. **CO3**: analyze the interrelationship among different species and genera of gymnosperms and angiosperms
	Plant diversity and human welfare	Generic Elective Course (GEC)	**BOTGEC2**	**CO1**: differentiate the level of plant diversity. **CO2**: Examine the cause of the loss of biodiversity. **CO3**: Analyse the biodiversity conservation strategies. **CO4**: Evaluate the role of plants in human welfare
	Biofertilizer	Skill Enhancement Course (SEC)	**BOTSEC2A**	**CO1**: Identify microbes used as biofertilizer **CO2**: Implementation of organic cultivation using biofertilizers **CO3**: Analyse the strategies for biofertilizer production.

Course Outcome of Botany for 3rd, 4th, 5th and 6th semester (CBCS):

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**
	Anatomy of Angiosperms	Major	**C5**	**CO1**: Students will acquire understanding of the structural and anatomical organisations of plant tissues and their development.
	Economic Botany	Major	**C6**	**CO1**: Students will learn the application of various economically important plants and plant products.
3rd Sem.	**Genetics**	Major	**C7**	**CO1**: Students will acquire understanding

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				of the principles of heredity and different mechanisms of inheritance.
	Morphology, Taxonomy, Development and Reproduction of Angiosperms	Generic	**GE3**	**CO1:** Students will acquire the terminologies used in description of angiosperm plants, basic knowledge of plant classification, tissues and tissue systems, development of primary and secondary plant bodies and their functions.
4th Sem.	**Molecular Biology**	Major	**C8**	**CO1**: Students will acquire understanding of the Biological Macromolecules and various processes involved with these macromolecules.
	Plant Ecology and Phytogeography	Major	**C9**	**CO1**: Students will acquire understanding of the interaction of plant with its surroundings and also the geographic distribution of different plants.
	Plant Systematics	Major	**C10**	**CO1**: Students will acquire knowledge of identification, classification and nomenclature of higher plants.
	Physiology and Economic Botany	Generic	**GE4**	**CO1:** This will help the students to gain basic knowledge of physiological activities of plants and the role of external factors upon them.
5th Semeseter	**Reproductive Biology of Angiosperms**	Major	**C11**	**CO1**: Students will acquire understanding of the process and mechanisms of plant reproduction.
	Plant Physiology	Major	**C12**	**CO1**: Students will acquire understanding of different physiological processes in plant life.
	Analytical Techniques in Plant Sciences	(Discipline Specific Elective) DSE	**DSE1**	**CO1:** Students will acquire knowledge on different techniques which can be used to study different Biological processes.
	Industrial and Environmental Microbiology	DSE	**DSE 2**	**CO1**: Students will learn the application of different microbes for industrial purposes and also their role in the environment.
6th Semester	**Plant Metabolism**	Major	**C13**	**CO1:** Students will acquire knowledge of different metabolic processes involved with plant life.

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	Plant Biotechnology	Major	**C14**	**CO1**: Students will learn the application of modern tools and techniques in Biology.
	Plant Breeding	DSE	**DSE3**	**CO1**: Students will acquire knowledge on different methods of plant improvement and breeding techniques.
	Natural Resource Management	DSE	**DSE4**	**CO1:** Students will acquire knowledge of different natural resources and their management Practices.

Department of Chemistry

Course Outcome for 1st and 2nd semester (NEP)

FOUR YEARS UNDER GRADUATE PROGRAMME (FYUGP)

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**
1ST Semester	**Inorganic + Physical + Organic**	Major	**CHMC1**	**CO1**: Develop a solid understanding of fundamental concepts in periodic properties, chemical bonding, gas and liquid properties, organic chemistry, and stereochemistry. **CO2**: Apply theoretical knowledge to solve problems and predict chemical behaviour. **CO3**: Perform experimental techniques proficiently, involving oxidation-reduction titrations.
	Fundamentals of Chemistry-1	Minor	**MINCHM 1**	**CO1**: Analyze and apply fundamental principles of atomic structure and chemical bonding to predict the behavior of elements and compounds. **CO2**: Apply methods and procedures to solve the Schrödinger wave equation, determine electronic configurations, and analyze periodic properties. **CO3**: Explain Schrödinger's wave equation, periodic properties, kinetic gas equation, and the significance of electronic displacements and mechanisms in organic reactions. **CO 4**: Use principles of ionic bonding, kinetic theory, and organic reaction mechanisms to solve related problems and

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				predict outcomes in practical scenarios. **CO 5**: Differentiate between various types of molecular interactions, such as ionic bonds, hydrogen bonds, and van der Waals forces, and interpret the behavior of gases and liquids under different conditions. **CO 6**: Assess the stability and solubility of ionic compounds, the effects of temperature and pressure on physical properties of liquids, and the strength of organic acids and bases. **CO 7**: Conduct qualitative inorganic analysis, prepare aliphatic hydrocarbons, and utilize laboratory techniques to measure physical properties of liquids and identify various radicals in samples.
2nd Semester	**Inorganic + Physical + Organic**	Major	**CHMC2**	**CO1**: Develop a comprehensive understanding of the properties and reactions of nontransition elements and metals. **CO2**: Gain in-depth knowledge of chemical thermodynamics and the properties of solids, including crystallography and X-ray diffraction. **CO3**: Master the formation and reactions of carbon-carbon sigma and pi bonds, with a focus on alkanes, alkenes, and alkynes. **CO4**: Acquire practical laboratory skills in the purification and analysis of organic Compounds, enhancing problem-solving abilities and technical expertise in analytical techniques.
	Fundamentals of Chemistry-2	Minor	**MINCHM 2**	**CO1**: Apply the concepts of Werner's theory, isomerism in coordination compounds and Valence Bond and Crystal Field theories, to understand and solve problems related to the structure and function of coordination compounds. **CO2**: Evaluate the bonding and structural properties of various inorganic and organic compounds by applying concepts of covalent bonding theories, including hybridization, VSEPR, resonance and MO. **CO3**: Gain a clear understanding of coordination chemistry, including its theories, naming rules, and types of ligands. **CO4**: Learn about chemical bonding,

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				molecular structures, and the basics of solid-state chemistry. **CO5**: Understand stereochemistry and the chemistry of aliphatic hydrocarbons, including how to make and react them. **CO6**: Develop practical lab skills in measuring surface tension, viscosity, and pH, and in making buffer solutions, which will improve your problem-solving and technical abilities in analytical techniques.

Course Outcome of Chemistry for 3rd, 4th, 5th and 6th semester (CBCS):

Semester	TITLE OF THE COURSE	COURSE NATURE	COURSE CODE	COURSE OUTCOMES
3rd Sem.	**Inorganic Chemistry**	Major	**C-301**	**CO1**. The students will understand the processes of iodometric titrations and preparation techniques of inorganic molecules.
	Organic Chemistry	Major	**C-302**	**CO1**. The students will develop the understanding of the reactivities of different functional groups like halides, carbonyl groups etc.
	Physical Chemistry	Major	**C-303**	**CO1**: Students will be able to understand the concepts of chemical kinetics and catalysis. **CO2**. They will understand the concepts of phase and phase diagrams for different physical state equilibriums.
	Solutions, Phase Equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II	Generic	**GE 301**	**CO1**: Students will be able to understand different concepts of solution chemistry viz., conductance, phase equilibrium and electrochemistry. **CO2**. They will understand the chemistry of carboxylic acids and amines and related bio molecules amino acids and also carbohydrates.
	Inorganic Chemistry	Major	**C 401**	**CO1**. Students will get the basic concepts of quantitative aspect of

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4th Sem.				ligand field and MO theory, stability of various oxidation states and emf of transition elements. **CO2**: They will understand the properties of transitional metals and inner transitional metals. **CO3**: They will understand the role of different metals in biological systems.
	Organic Chemistry	Major	**C 402**	**CO1**. Students will gain the knowledge of preparation and properties of nitrogen containing heterocyclic compounds, including alkaloids and tarpenes.
	Physical Chemistry	Major	**C 403**	**CO1**. Students will be able to understand the basic knowledge on electrochemistry, various laws governing electro chemical process and their applications. **CO2**. Students will gain the knowledge on electrical and magnetic properties of atoms and molecules.
	Transition metals, Coordination Chemistry, States of Matter and Chemical Kinetics	Generic	**GE 401**	**CO1**. To understand the bonding and chemistry of co-ordination compounds. **CO2**. The basic concepts of solid, liquid and gas phases and the kinetics of a reaction.
	Organic Chemistry	Major	**C 501**	**CO1**. Students will be able to design a synthesis through retro synthetic approach. **CO2**. They will understand the chemical basis for biological phenomena and cellular structure, the enzymatic action and the nucleic acids and their role in heredity.
	Physical Chemistry	Major	**C 502**	**CO1**. Students will understand the basic concepts of quantum mechanics and qualitative treatment of hydrogen atom and hydrogen like ions. **CO2**. They will also be introduced to photochemistry and different molecular spectroscopy techniques.

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5th Semeseter	**Analytical Methods in Chemistry**	(Discipline Specific Elective) DSE	**DSE 501**	**CO1**. Students will get a deeper knowledge on different analytical methods for chemical compounds.
	Green Chemistry	DSE	**DSE 502**	**CO1**. Students will learn about the principles of green chemistry with real life applications and the future trends.
6th Semester	**Inorganic Chemistry**	Major	**C 601**	**CO1**. Students will get the basic concepts of organometallic compounds and their reaction mechanisms. **CO2**. They will also get the knowledge on catalytic applications of organometallic compounds.
	Organic Chemistry	Major	**C 602**	**CO1**. Students will learn the use of molecular spectroscopic techniques in organic compound analysis. **CO2**. They will be acquainted with carbohydrate chemistry, and different biodegradable polymers and dyes.
	Industrial Chemicals and Environment	DSE	**DSE 602**	**CO1**. Students will learn about the impact of industrial chemistry on environment and handling. **CO2**: Students will be introduced to the concept of biocatalysts.
	Project Work	DSE	**DSE 603**	**CO1**: Students will be introduced to a scientific problem and the ways to solve it. **CO2**: They will be introduced to the basics of data analysis, scientific writing and verbal presentation of their work.

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Department of Economics

First and Second Semester

FOUR YEARS UNDER GRADUATE PROGRAMME (FYUGP) under NEP 2020

SEMESTER	TITLE OF THE COURSE	COURSE NATURE	COURSE CODE	COURSE OUTCOMES
First	Introductory Microeconomics	Major	ECOC1	CO 1: Comprehend the introductory principles of microeconomics. CO 2: Apply the basics of microeconomics in behaviour patterns of firms and households

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				and relate with the laws of demand and supply. CO 3: Analyse the fundamentals of microeconomics to understand the behaviour of consumers and attainment of consumer's equilibrium. CO 4: Discuss the principles of microeconomics in relation to production function, costs and revenues and demonstrate the basics of market mechanism and the equilibrium condition of different forms of markets. CO 5: Evaluate the features of input market.
	Elementary Microeconomics	Minor	MINECO1	CO 1: Comprehend the introductory principles of Microeconomics. CO 2: Apply the basics of microeconomics in behaviour patterns of firms and households and relate with the laws of demand and supply. CO 3: Expalin the fundamentals of microeconomics to understand the behaviour of consumers and producers and attainment of producer's and consumer's equilibrium. C O 4: Use the principles of microeconomics in relation to production function, costs and revenues and demonstrate the basics of market mechanism and characteristics of different forms of markets.
	Economic History of India	Generic Elective	GECECO1	C O1: Analyze and evaluate the economic structure and policies of pre-independence India, understanding the factors contributing to economic backwardness. CO2: Examine the agrarian structure, agricultural markets, and institutions, and their impact on India's agricultural productivity and rural economy. CO3: Evaluate the industrial development and transportation systems in colonial India and their impacts on the economy. CO4: Evaluate the economic policies and priorities under British rule, including foreign capital, trade, and fiscal policies, and their impact on India's economy.
Second	Introductory Macroeconomics	Major	ECOC2	CO1: Distinguish between different macroeconomic schools of thought and understand the fundamental objectives and scope of macroeconomics, laying the foundation for advanced macroeconomic analysis. CO2: Define national income and various accounting methods, and assess the limitations and significance of GDP as an indicator of

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				economic health and social welfare. CO3: Analyze the components and determinants of aggregate demand and aggregate supply, and understand how these factors interact to influence overall economic activity. CO4: Critically evaluate the classical and Keynesian theories of output and employment determination, and apply these concepts to understand historical and contemporary economic fluctuations. CO5: Explain the functions and types of money, determinants of money supply and demand, and the determination of equilibrium rate of interest.
	Elementary Macroeconomics	Minor	MINECO2	CO1: Describe the distinction between microeconomics and macroeconomics, including the development and objectives of macroeconomic theory. CO2: Gain a comprehensive understanding of how economic activity is measured and the significance of national income accounting. CO3: Define the concepts of aggregate demand (AD) and aggregate supply (AS) including the identification of factors responsible for the shifts of AD and AS. CO4: Compare and contrast the classical and Keynesian theories of output and employment determination and their relevance to economic equilibrium. CO5: Elaborate the role of money in the economy, the various types and measures of money, and the causes and effects of inflation.
	Contemporary Indian Economy	Generic Elective	GECECO2	CO1: Analyze the key aspects of India's industrial policies, infrastructure development, and their impact on business performance. CO2: Understand and evaluate the fiscal and monetary policies of India, including recent reforms and their implications on the economy. CO3: Examine the direction, composition, and policies related to India's foreign trade and balance of payments since 1991. CO4: Analyze key socio-economic issues in India, including demographic trends, urbanization, the impact of COVID-19, and agricultural policies.

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Course Outcome of Economics for Third, Fourth, Fifth and Sixth Semester (CBCS)

SEMESTER	TITLE OF THE COURSE	COURSE NATURE	COURSE CODE	COURSE OUTCOMES
Third	Essentials of Microeconomics	Honours	ECNHC301	CO 1: Analyse consumer theory relating to utility, indifference curves, choice CO 2: Understand and evaluate income and substitution , slutsky's equation, compensated and ordinary demand curves CO 3: Examine technological relationship between outputs and inputs, and basic concepts CO 4: It aims to introduce definition and types of costs, cost functions and its properties CO 5: It provides a sound training in the nature and behaviour of firms, profit maximization rule of perfect competition
	Essentials of Macroeconomics	Honours	ECNHC302	CO 1: Analyse Short run and long run consumption functions CO 2: Understand and evaluate Investment function CO 3: Explain Inflation and Unemployment CO 4: It focuses on Open and closed economy CO 5: To Trace out the Concepts and components of balance of trade and balance of payments
	Statistical Methods for Economics	Honours	ECNHC303	CO 1: To acquaint the learners with Measures of Central Tendency, Range, Quartile Deviation, Mean Deviation and Standard Deviation CO 2: It gives a glimpse of Elementary Probability Theory CO 3: To help students to understand Random Variables and Probability Distributions CO 4: It aims to introduce the students to Distinction between sampling and census, Principal steps in a sample survey CO 5: introduces the students to Correlation and Regression Analysis
	Principles of	Non-	ECNGC301	CO 1: To emphasises on illustrating

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	Macroeconomics - I	Honours		Macro vs. Micro Economics, Nature and scope of Macroeconomics and Basic Macroeconomic issues CO 2: It discusses the preliminary concepts associated with the national income accounting CO 3: It provides a sound training in Determination of GDP CO 4: It discusses National Income Determination in an Open Economy with Government CO 5: It highlights Money in a Modern Economy
	Money and Financial Markets	Generic Elective	ECNGE3.2	CO 1: It Analyses Concept, functions, measurement; theories of money supply determination CO 2: To Understand and evaluate Financial Institutions, Markets, Instruments and Financial Innovations CO 3: To Examine Stock Market and its Operations CO 4: It aims to introduce Determination; sources of interest rate differentials CO 5: It provides a sound training in Banking System, banking sector reforms Central Banking and Monetary Policy
Fourth	Advanced Microeconomics	Honours	ECNHC401	CO 1: Analyse General Equilibrium, Efficiency and Welfare CO 2: Understand and evaluate Monopoly- definition, output decision of the monopolists etc CO 3: Explain Short-run pricing and output decisions under oligopoly CO 4: It focuses on Game theory and Competitive Strategy CO 5: It Traces out Market Failure
	Advanced Macroeconomics	Honours	ECNHC402	CO 1: To acquaint the learners with Microeconomic Foundations of Macroeconomics CO 2: It gives a glimpse of The Accumulation of Capital and Population Growth; The Harrod-Domar model; etc CO 3: To help students to understand Technological progress and the Solow model and Policies to promote Economic Growth CO 4: It aims to introduce the students to Fiscal and Monetary Policy CO 5: To introduce the students to

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				Schools of Macroeconomic Thoughts
	Introductory Econometrics	Honours	ECNHC403	CO 1: To emphasises on illustrating nature and scope of econometrics and basic statistical pre requisites CO 2: It discusses the preliminary concepts associated with simple linear regression mode CO 3: It provides a sound training in violations of classical assumptions: consequences, detection and remedies CO 4: It discusses various issues of Multicollinearity CO 5: It highlights Omission of relevant variables and Inclusion of irrelevant variables
	Principles of Macroeconomics - II	Non-Honours	ECNGC401	CO 1: To analyse short run macroeconomics and is-lm analysis CO 2: To understand and evaluate determination of the aggregate price level CO 3: To examine anatomy of inflation and unemployment CO 4: It aims to introduce International trade and the macro economy CO 5: It provides a sound training in Concepts and components of balance of trade and balance of payments
	Public Finance	Generic Elective	ECNGE4.3	CO 1: To analyse meaning and scope, normative approach to public finance CO 2: To understand and evaluate public goods- meaning and characteristics, public goods and market failure CO 3: It Explains Meaning and types of Externalities and Market Failure CO 4: It focuses on Incidence of Taxation and Excess Burden of Tax CO 5: It discusses Issues from Indian Public Finance
Fifth	Indian Economy - I	Honours	ECNHC501	CO 1: To acquaint the learners with Economic Development since Independence CO 2: It gives a glimpse of Population and Human Development CO 3: To help students to understand Poverty, Incidence of Poverty in India and employment CO 4: It aims to introduce the students to India's economic interaction with the world economy

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				CO 5: It introduces the students to Indian economy
	Development Economics - I	Honours	ECNHC502	CO 1: To analyse evolution of development economics; economic growth and development CO 2: Understand and evaluate strategies of development CO 3: To Explain Growth Models CO 4: It focuses on Poverty and Inequality CO 5: To Trace out political institutions and the functioning of the state
	Money and Financial Markets	Honours	ECNHDSE505	CO 1: To acquaint the learners with Concept, functions, measurement; theories of money supply determination CO 2: It gives a glimpse of Financial Institutions, Markets, Instruments and Financial Innovations CO 3: To help students to understand stock market and its operations CO 4: It aims to introduce the students to determination; sources of interest rate differentials CO 5: It introduces the students to banking system
	Public Economics	Honours	ECNHDSE506	CO 1: To emphasises on illustrating An Overview, Meaning and Scope of Public Economics CO 2: It discusses the preliminary concepts associated with meaning and characteristics, pure and impure public goods CO 3: It provides a sound training in Market failure and externalities CO 4: It discusses on Tax and Non tax revenue CO 5: It highlights Indian Public Finance
	Money and Banking	Non-Honours	ECNGDSE2	CO 1: To analyse concepts, functions, measurement and theories of money supply CO 2: To understand and evaluate financial institutions, markets, instruments and financial innovations CO 3: It explains stock market and its operations

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				CO 4: It focuses on interest rates determination; sources of interest rate differentials CO 5: It trace out banking system
	Introductory Microeconomics	Honours (GE)	ECNGE1	CO 1: To acquaint the learners with exploring the subject matter of economics CO 2: It gives a glimpse of supply and demand: how markets work, markets and welfare CO 3: To help students to understand Household Behaviour and Consumer's Choice CO 4: It aims to introduce the students to firm and perfect market structure CO 5: It introduces the students to towards competition; imperfect competition.
Sixth	Indian Economy - II	Honours	ECNHC601	CO 1: To emphasises on illustrating Macroeconomic Policies and Their Impact CO 2: It discusses the preliminary concepts associated with Policies and Performance in Agriculture CO 3: It provides a sound training in policies and Performance in Industry CO 4: It discusses various alternative theories of trends and performance in services
	Development Economics - II	Honours	ECNHC602	CO 1: To analyse Demography and Development CO 2: Understand and evaluate land, labor and credit markets CO 3: To Examine economic functions of Community CO 4: It aims to introduce Environment and Sustainable Development CO 5: It provides a sound training in Trade, Globalization and Development
	International Economics	Honours	ECNHDSE604	CO 1: To Analyse International Economics and Trade Theories CO 2: To Understand and evaluate International capital flows CO 3: To Explain Free trade Vs. protective trade CO 4: It focuses on Concepts of exchange rate CO 5: To Trace out International

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				Monetary System
	History of Economic Thought	Honours	ECNHDSE605	CO 1: To acquaint the learners with Pre-Classical and Classical Economic Thought CO 2: It gives a glimpse of Reaction against Classicism CO 3: To help students to understand reconstruction of economic science CO 4: It aims to introduce the students to Keynesian Economic Thought CO 5:It introduces the students to indian economic thought
	Public Finance	Non-Honours (DSE)	ECNGDSE6	CO 1: It analyses fiscal functions CO 2: To understand and evaluate theory of public goods CO 3: To explain meaning and types of externalities and market failure CO 4: It focuses on incidence of taxation and excess burden of tax CO 5: It aims to introduce Issues from Indian Public Finance
	Introductory Macroeconomics	Non-Honours (GE)	ECNGE2	CO 1: To acquaint the learners with macro vs. micro economics; scope and limitations of macroeconomics CO 2: It gives a glimpse of Measurement of GDP CO 3: To help students to understand demand for and supply of money CO 4: It aims to introduce the students to inflation and hyperinflation CO 5:It introduces the students to theory of determination of income and employment

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Department of Education

Course Outcome for 1st and 2nd semester (NEP)

FOUR YEARS UNDER GRADUATE PROGRAMME (FYUGP)

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**
1ST Semester	Foundations of Education-I	Major	EDNC-1	CO1: Students will be able to know the meaning, nature, scope and types of Education CO2: Students will be able to understand the aims of education and aims of education based on four pillars of education. CO3: Students will be able to know the concepts of Psychology and Educational Psychology, schools of psychology and methods of educational psychology. CO4: Students will be able to know about the meaning, nature and scope of Philosophy and Educational Philosophy. CO5: Students will be able to understand the role of Philosophy in different aspects

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				of Education. CO6: Students will be able to gather knowledge regarding the meaning, nature and scope of Sociology and Educational Sociology. CO7: Students will be able to know about different theories of Educational Sociology
	Philosophical foundation of Education	Minor	MINEDN1	CO1: Students will be able to know the meaning, nature and scope of Philosophy o describe the meaning, nature and scope of Education. CO2: Students will be able to understand the meaning, nature and scope of philosophy of education. CO3: Students will be able to know various the role of philosophy in education. CO4: Students will be able to gather knowledge regarding the Indian philosophies and their influence on education. CO1: Students will be able to explain the basic tenets of the given Western Philosophies and their influence on education.
	Introduction to Education	Generic Elective Course (GEC)	GECEDN1 A	CO1: Students will be able to describe the modern concept, aims, functions and role of education. CO2: Students will be able to explain the different levels of education. CO3: Students will be able to express the concept and types of curricular and co-curricular activities. CO4: Students will be able to illustrate

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				about examination, measurement, assessment and evaluation.
	Personal Development and Soft skills	Skill Enhancement Course (SEC)	SEC104	CO1: Students will be able to describe personality types for leadership qualities and career. CO2: Students will be able to differentiate between hard skills and soft skills. CO3: Students will be able to prepare a holistic plan for self-improvement. CO4: Students will be able to explain the various interpersonal skills including communication skills. CO5: Students will be able to make presentations for effective communication. o prepare a modern C.V. for attracting employer. CO5: Students will be able to practice new skills and techniques for effective outputs in job market.
2nd Semester	Foundations of Education-II	Major	EDNC2	CO1: Students will be able to explain the ancient Indian education systems with reference to Vedic, Buddhist and Islamic education systems. CO2: Students will be able to explain the contributions of Missionaries in the development of modern Education in India. CO3: Students will be able to discuss the landmarks in the development of Indian Education till Independence. CO4: Students will be able to describe the concepts of curriculum, textbook, syllabus, integrated curriculum and cocurricular activities. CO5: Students will be able to describe the nature, types and importance of curriculum

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				and co-curricular activities. CO6: Students will be able to discuss some global issues like globalization, liberalization, privatization, SDG4, international student mobility and Indian education. CO7: Students will be able to explain the need and importance of population education, environmental education and peace education at the present context of the society. CO8: Students will be able to explain some contemporary issues of Indian education relating accreditation of educational institutions, MOOC, SWAYAM, online and digital education, open book examination and education-industry link.
	Psychological foundation of Education	Minor	MINEDN 2	CO1: Students will be able to explain the concept, nature, scope and uses of psychology in Education. CO2: Students will be able to explain the influence of growth and development in education. CO3: Students will be able to describe the meaning, concept, types and theories of learning. CO4: Students will be able to describe the concept and theories of intelligence and creativity. CO5: Students will be able to explain the meaning, concept, factors and theories of personality. CO6: Students will be able to describe the concepts of mental health and mental hygiene, measures of mental health in school.

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				CO7: Students will be able to describe the relation between Instincts and Emotion and importance of Emotional training in the classroom.
	Introduction to positive Psychology	Generic Elective Course (GEC)	GECEDN2A	CO1: Students will be able to explain the need and importance of understanding the concepts of Positive Psychology and its application in life. CO2: Students will be able to describe the various aspects of Positive Emotions and Positive Traits and their importance. CO3: Students will be able to explain the different components of psychological capital. CO4: Students will be able to explain the concepts of stress, stress management, conflict management and post traumatic growth leading to psychological adjustment.
	ICT in Education	Skill Enhancement Course (SEC)	SEC204	CO1: Students will be able to describe the concept of ICT. CO2: Students will be able to explain the role of ICT in teaching learning process o. CO3: Students will be able to Demonstrate the skill of using ICT devices in teaching learning process.

Course Outcome for 3rd, 4th , 5th and 6th semester (CBCS):

Semester	TITLE OF THE COURSE	COURSE NATURE	COURSE CODE	COURSE OUTCOMES
	Great Educators and Educational	Major	EDNH301	CO1 : To develop and understanding of the development

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	Thoughts			of educational thought and make conscious of the contribution of educators of different countries to educational theory. CO2: It will help the students to explain the relevance of the educational thoughts of different renowned educationist and philosophers.
3rd Sem.	Measurement and Evaluation	Major	EDNH302	CO1. To develop understanding of the meaning, nature, scope and need of measurement and evaluation. CO2.The course will help the students to describe some specific tools to measure achievement, intelligence, personality and aptitude. CO3.To develop and understanding of the meaning, nature and application of different statistical measures and their uses in measurement and evaluation in education
	Experimental Psychology and Laboratory Practical	Major	EDNH303	CO1. The students will able to know the concept, scope and need of Experimental psychology in psychology and education. CO2. It enables the students to understand about the concept, characteristics, types and process of conducting and reporting of experiment/ practical on Memory, Attention, Learning, Personality and Intelligence.

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	Mental Health Issues	Generic	GEED302	CO1. The course will enable the students about the concept of mental health and hygiene in the emerging society, role of different agencies of society and their impact on personality development of individual. C02.It will help to develop an understanding of the psychological and maladjustment problems of people, various components of Positive psychology and its impact in teaching learning process, and role of Yoga in day to day life for holistic health.
	Basics of Teaching in Elementary Level	SEC	SEC 1.1	CO1.The course will enable the students about the concept of elementary education and constitutional provisions related to this stage, and also the different scheme sponsored by Centre and State. CO2. It will help to develop an understanding of the concept of human growth and development, characteristics in different stages, and behavioral taxonomy of child. CO3. The course will also provide a idea to the students about curricular and cocurricular activities and examination and evaluation system in education.
	Sociological Foundation of education	Non honors	EDNCN301	CO1.This course enables the students to understand the concept, approaches and theories of educational sociology. CO2. It also helps the students to understand and elaborate various

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				aspects related to social groups, role of education in social changes, social development and impact of different political ideologies on education.
4th Sem	Education in Pre independent India	Major	EDNH401	CO1.To helps the students to gather knowledge about the development of ancient Indian Education particularly Vedic education, Buddhist education and education system in Medieval period. C02. This course will definitely helps to evaluate the education system during British period with special emphasis on the commissions and committees.
	Techniques of Teaching and Teaching Practice	Major	EDNH402 and EDNH4020	To develop and understanding of the concept and Principles of teaching learning process, role of teacher in different phases of teaching, importance of lesson plans for teachers and students and also different methods and approaches of teaching along with the knowledge of teaching different subjects in Elementary and Secondary level (Micro and Macro Teaching skills). √ It will enable the students to demonstrate some teaching skills in real classroom situation and help to prepare lesson plans for Micro teaching and Practice teaching
	Educational			CO1.The course will enable the

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	Technology	Major	EDNH403	students about the concept, nature,and components of Educational Technology. CO2.The course will enable the students to apply ICT in education. CO3.The course will enable the students to demonstrate skills of effective communication and also apply models of teaching ,personalized system of instruction,programmed learning in teaching learning etc.
	Economics of Education	Generic	GEED401	CO1.The course will enable the students about the concept, scope, importance and different concepts used in and historical development of economics of education. CO2.It will develop an understanding of the concept of Education as good, demand and supply, utility of education, investment in education, return on investment in education, types of educational cost, human capital formation, education financing, educational planning etc.

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	Aspects of Teaching Learning Process	Both major and non major	SEC1.2 SEC 2.1	CO1.The course will enable the students about the concept, nature of teaching learning process, maxims of teaching, different approaches of teaching and learning. CO2.This course will definitely helps the students to know about lesson plan, use of audio visual aids, organization and management of elementary school, and about the concept and education of exceptional children.
	Emerging Trends in Education	Non Honors	DSC1D	CO1.The course will enable the students about the Constitutional provisions for education, challenges of Indian education in different levels and role of the Constitution in equalizing educational opportunities in Indian Society. CO2. To develop an understanding

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				of the new perspective of education Environmental education, Inclusive education, Gender education, adult education, Value education, Human Right education, Population education etc. CO3.The course will help the students to examine and evaluate the initiatives taken by Government, political influences on national education system and role of International agencies in development of education.
5th sem	- Education in Post Independent India	Major	EDNH C11(501)	The course will provide knowledge to students about the development of Indian Education, Educational changes in India at the time and since Independence, recommendations of different commissions and committees in the development of education after independence and recent educational development in India.
	Education in World Perspective	Major	EDNH C12 (502)	The course will enable the students about the concept, nature, scope and purposes, methods of comparative education, To develop and understanding of the educational system of their own country and comparative idea of own education system with other countries (UK, USA, Japan)of the globe on different dimension such asorganization, administration, objectives, examination system, vocational and teacher education etc.

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	Guidance and Counselling	Discipline specific Elective,Major	DSEED I (501)	The course will enable the students about the concept, nature, scope and purposes, characteristics, functions, basic principles, types and areas of guidance and counselling. To develop and understanding of the various tools and techniques of guidance and qualities and role of a counselor.
	Mental Health Issues	Discipline specific Elective ,Major	DSEED II (504)	The course will enable the students about the concept of mental health and hygiene in the emerging society, role of different agencies of society and their impact on personality development of individual. It will help to develop an understanding of the psychological and maladjustment problems of people, various components of Positive psychology and its impact in teaching learning process, and role of Yoga in day to day life for holistic health.
	Guidance and Counseling	Discipline specific Elective ,Non Major	EDDSEN (505)	The course will enable the students about the concept, nature, scope and purposes, characteristics, functions, basic principles, types and areas of guidance and counseling. To develop and understanding of the various tools and techniques of guidance and qualities and role of a counselor.

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	Education in Pre - Independent India	General Elective Non major	GEEDN (501)	To helps the students to gather knowledge about the development of ancient Indian Education particularly Vedic education, Buddhist education and education system in Medieval period. √ This course will definitely helps to evaluate the education system during British period with special emphasis on the commissions and committees.
	Basics of Teaching in Elementary Level	Skill Enhancement Course ,Non major	SEC 1.1	CO1.The course will enable the students about the concept of elementary education and constitutional provisions related to this stage, and also the different scheme sponsored by Centre and State. CO2. It will help to develop an understanding of the concept of human growth and development, characteristics in different stages, and behavioral taxonomy of child. CO3. The course will also provide a idea to the students about curricular and cocurricular activities and examination and evaluation system in education.
6th Sem	Emerging Trends in Indian Education	Major	EDNH C13 (601)	The course will enable the students about the Constitutional provisions for education, challenges of Indian education in different levels and role of the Constitution in equalizing educational opportunities in Indian Society. To develop an understanding of the new perspective of education

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				Environmental education, Inclusive education, Gender education, adult education, Value education, Human Right education, Population education etc. The course will help the students to examine and evaluate the initiatives taken by Government, political influences on national education system and role of International agencies in development of education.
	Child and Adolescent Psychology	Major	EDNH C14 (602)	The course will enable the students about the significance of a study of childhood and adolescent at present. It will help to understanding of the developmental changes of childhood and adolescence, effect of family dynamics and role of society in monitoring and guiding young children in their all-round development of personality.
	Human Rights		DSEED I (601)	The course will enable the students about the concept, definition, nature, scope, theories and constitutional perspective of Human rights. It will develop an understanding of the concepts, objectives, principles,

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	Education	Discipline specific Elective,Major		need, curriculum, methods, activities, promoting factors, basis (societal, political, regionalism etc.) and role of different agencies of Human rights education.
	Gender and Education	Discipline specific Elective,Major	DSEED II (603)	The course will enable the students about the concept and nature of gender and its related terms, and also the gender biases and gender inequality in family, school and society. It will helps to develop and understanding of the gender issues related to school education and analyze the laws and policies related to gender equality
	Child and Adolescent Psychology	Discipline specific Elective,Major	EDDSEN (604)	The course will enable the students about the significance of a study of childhood and adolescent at present. It will help to understanding of the developmental changes of childhood and adolescence, effect

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				of family dynamics and role of society in monitoring and guiding young children in their all-round development of personality.
	Gender and Education	General Elective Non,Major	GEEDN (603)	The course will enable the students about the concept and nature of gender and its related terms, and also the gender biases and gender inequality in family, school and society. It will helps to develop and understanding of the gender issues related to school education and analyze the laws and policies related to gender equality
	Aspects of Teaching Learning process	Skill Enhancement course	SEC 2.2	CO1.The course will enable the students about the concept, nature of teaching learning process, maxims of teaching, different approaches of teaching and learning. CO2.This course will definitely helps the students to know about lesson plan, use of audio visual aids, organization and management of elementary school, and about the concept and education of exceptional children.

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Department of English

Course Outcome for 1st and 2nd semester (NEP)

FOUR YEARS UNDER GRADUATE PROGRAMME (FYUGP)

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**
1st Semester	British Poetry and Drama: 14th to 17th Century	Major	C1	**CO1**: Evaluate the Age of Chaucer. **CO2**: Examine the genre of Elizabethan drama and the ethos of Renaissance Humanism with respect to the works of Shakespeare and Christopher Marlowe. **CO3**: Trace the development of Romantic comedy during the Elizabethan age. **CO4**: Describe Metaphysical Poetry and its thematic complexity.
	British Poetry and Drama: 14th to 17th Century	Minor	M1	C01. Understand the cultural and social norms of the Age of Chaucer, including them feudal system and the role of the Church. **C02**. Evaluate the importance of Chaucer's

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				works in the context of the literary scene of his time. **C03**. Analyze the key characteristics of Elizabethan drama, including its themes, theatrical conventions, and historical context, to understand its significance in the development of English literature. **C04**. Discuss the significance of the stage, court, city in Elizabethan dramas by examining their roles in shaping plot, character interactions, and thematic development. **C05**. Trace the development of Romantic comedy during the Elizabethan age.
	Introducing English Poetry	GEC	GEC-1	**CO1**: State the fundamental definition and nature of poetry, and its types. **CO2**: Demonstrate a comprehensive understanding of the elements of poetry and analyse their use in various poems. **CO3**. Evaluate the key characteristics and themes of Metaphysical, Romantic, Victorian, Modern, and Postmodern movements. **CO4**: Develop a comprehensive understanding of the theoretical underpinning of poetry as discussed by Coleridge, Wordsworth, and T.S. Eliot.
	Soft Skills	SEC	SEC-1	**CO1**: Develop proficiency in verbal and written communication skills for effective personal, academic, and professional interactions. **CO2**: Cultivate an understanding and appreciation of cultural diversity to communicate effectively in cross-cultural settings. **CO3**: Acquire essential technological and professional communication skills for career readiness and advancement.
2nd Semester	British Poetry and Drama: 17th to 18th Century	Major	C2	**CO1**: Evaluate the socio-political and cultural contexts of the 17th century and their impact on different literary works. **CO2**: Develop an understanding of the diverse literary movements, forms and genres of the 17th century. **CO3**: Prepare in-depth analyses of the major 17th century texts. **CO4**: Synthesise ideas from the prescribed 17th century texts to create new interpretations and critical perspectives.
	British Poetry and Drama: 17th to 18th	Minor	M2	**CO1**: Assess the themes, epic structure, and theological implications of Milton's Paradise Lost Book I.

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	Century			**CO2**: Formulate innovative research questions that would push the boundaries of traditional literary analysis. **CO3**: Analyse the characteristics of mock-epic and satire along with examples. **C04**: Analyse the interplay between religious and secular dimensions, and how it shaped different literary expressions.
	Introducing English Drama	GEC	GEC-2	**CO1**: Trace the origin and growth of drama in England and its various forms. **CO2**: Evaluate the different types of theatre spaces. **CO3**: Explain the elements of drama and their significance in theatrical productions. **CO4**: Evaluate Aristotle's Poetics and its significance in the context of theories on drama. **CO5**: Develop a comprehensive understanding of the various types of drama.
	English Language and Communication Skills	AEC	AEC-2	**CO1**: Discuss Communication Theory, Types and Modes. **CO2**: Engage in advanced speaking skills. **CO3**: Develop the ability to read and understand texts by demonstrating skills in comprehension, summarisation, paraphrasing, analysis and interpretation. **CO4**: Develop proficiency in diverse writing skills.
	Creative Writing	SEC	SEC-2	**CO1**: Explain the meaning and significance of Creative writing. **CO2**: Develop a detailed understanding of the elements of creative writing. **CO3**: Exhibit a comprehensive understanding of various forms and genres of creative writing.

Course Outcome of English for 3rd, 4th, 5th and 6th semester (CBCS):

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**
	American Literature	Major	ENG(H)-301	CO1: To introduce students with American literature.

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3rd Sem.				CO2 : To highlight important context to American history and Literature like the reality or illusion of the Great American Dream, The Transcendentalist Movement ,the history of slavery in the South , The Great Economic Depression ,etc,. CO3 : To help students to understand the poetics and Politics of an Literature characterized both by liberal and reactionary ideals .
	Popular Literature	Major	ENG(H)-302	CO1. To acquaint learners with the different genres of popular literature, such as crime thriller, graphic fiction, children's literature and the like. CO2. To help students appreciate the presence of a creative space and process that has the potential to affect readers to a degree that even high- brow literature fails to achieve.
	British Poetry and Drama: 17th and 18th Centuries	Major	ENG(H)-303	**CO1**: To acquaints students with English literatureof the Seventeenth and Eighteenth Century. **CO2**: To familiarize students with epoch making – political events such as the Puritan Interregnum and the Restoration. **CO3**: To keep learners contradistinguish between the Romantic excesses of the Elizabethan Literature and a Literature marked by restrained and order. **CO4**: To enable students to understand how English Drama and Poetry emphasize on the importance of adhering to Classical norms and forms.
	Text and Performance	Generic	ENG(H)-302 GE3	**CO1**: Enabling the students to understand the link between text and contents. **CO2**: Acquainting students with the technical aspects of performance.
4th Sem.	British Literature: 18th Century	Major	ENG(H)-401	**CO1**: To introduce students to 18th century British Literature. **CO2**: To initiate students with the concepts of Irony and Satire. **CO3**: To acquaints students with Gender Issues. **CO4**: To help students to understand the spirit of the age, as well as the literature embodying the spirit.
	British Romantic Literature	Major	ENG(H)-402	**CO1**: To initiates students to the literature of the Romantic Period. **CO2**: To highlight the highly imaginative,

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				rhetorical, emotive , visionary, metaphysical, epical, sensuous, aspects of the words of this period. **CO3**: To acquaint students with revolutionary zeal of The French Revolution and The American War of Independence. **CO4**: To introduce students to the genre of The Gothic's Novel which debunked rationality and focused on the supernatural.
	British Literature: 19th Century	Major	ENG(H)-403	**CO1**: To familiarize students to 19th century as emblematic of a certain spiritual crisis resulting the impact of scientific ideology. **CO2**: To introduce students to Victorian Literature this was synonymous with the notion of propriety, prudishness and censorship. **CO3**: To orientate students with the ground breaking theories propounded by Darwin, Marx and Freud. **CO4**: To enable students to grasp the philosophical shift resulting from the crisis of faith pertaining to the culture of positivism that manifested its presents in the Victorian period.
	Contemporary India: Women and Empowerment	Generic	ENG(H)-402 GE4	**CO1** : Acquainting students with gender issues, related to its constitution, legislation, resistance and marginalization in the pan Indian Context. **CO2** : introducing students to women movements and understand the marginalized section like Dalit woman and tribal groups.
5th Semeseter	Women's Writing	Major	ENG(H)-501	**CO1**: Introducing learners to Women's Writing and underlying the manner in which power operates to silence women from articulating their views. **CO2**: Situating women's writing in a space that transcends or upends the male writing tradition through various subversive ways . **CO3**: Sensitizing the learners to gender-related issues and to see things from perspective of the Other .
	British Literature: The Early	Major	ENG(H)-502	**CO1**: Marking the students aware of the philosophical trajectories like symbolism, existentialism, cubism, Dadaism,

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	20th Century			expressionism and nihilism through early 28th century novels and poetry. **CO2**: Acquainting students with concepts like stream of consciousness, Oedipus complex, avant-garde, interior monologue ,etc.
	Literary Criticism	(Discipline Specific Elective) DSE	ENG(H)-503 DSE1	**CO1**: Acquainting students with the major trends in literary criticism from the Romantic period to the present. CO2: Enabling students to understand the text in terms of the context which is purely aesthetic, historical ,textual or political. CO3: To develop the reading skills of the students by adapting the ideologies of the different reading processes.
	World Literature	DSE	ENG(H)-504 DSE 2	**CO1**: Acquainting learners with the form and content of the text that are part of different specialities. **CO2**: To compare and contrast writing styles and generic from different periods and cultures. **CO3**: Enabling students to identify major themes of representative poetic and fictional works and trace the influence of one literature upon another.
6th Semester	Modern European Drama	Major	ENG(H)-601	**CO1**: Understanding the political , social , individual ,economic conditions of the post- war Europe Henrik Ibsen , Bertolt Brecht and Samuel Beckett . **CO2**: To enable students to read modern drama by placing the epochal events of the period as the backdrop.
	Postcolonial Literatures	Major	ENG(H)-602	**CO1**: Acquainting students with post colonial literature including the countries subsumed under the rubric the Commonwealth. **CO2**: Enabling students to focus the issues such as language ,identity, displacement, physical and mental colonization, decolonisation, nationalism, globalization and Diaspora, colonial legacy, gender and sexuality, ethnicity, race ,etc and to trace these issues in the literary text.
	Partition Literature	DSE	ENG(H)-603 DSE3	**CO1**: Enabling the students to comprehend the magnitude of the tragedy of partition and the tragedy and trauma of partition.

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				CO2: Understanding the emotional impact of partition and the traumatic effects on the lives of the people through imaginative literature.
	Travel Writing	DSE	ENG(H)-604 DSE4	**CO1**: Acquainting the students with ngs of the travellers from the medieval d to the present as they document the ways foreign culture : Enabling students to appreciate the rences in representation from the category nder, religion and race. : Enabling students to underscore the lems associated with travel writing such as laims to authenticity of the narratives ts, the role of imagination, the ocentric gaze of the element of wonder and rth.

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Department of History

Course Outcome for 1st and 2nd semester (NEP)

FOUR YEARS UNDER GRADUATE PROGRAMME (FYUGP)

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**
1st Semester	**History of Ancient India**	Major	**HISHC1**	CO1: Develop a chronological interpretation of Indian prehistory and protohistory. CO2: Explain the tools, technologies, and subsistence patterns in Indian prehistory. CO3: Analyse the characteristics and significance of the Harappan civilization. CO4: Evaluate the processes of early territorial state formations in the Indian subcontinent around the 6th century BCE. CO5: Explain the growth of different philosophical traditions during the period CO6: Interpret the characteristics of the Vedic society and religion
	History of Ancient India	Minor	**MINHIS1**	CO1: Interpret the sources of ancient Indian history CO2: Explain the origin and extent of Harappan culture and its major sites CO3: Interpret the characteristics of the Vedic society and economy CO4: Analyze the political developments of the Magadhan empire throughout the period CO5: Evaluate the process of polity formation in the post-Mauryan period till c. 600 CE CO6: Develop a chronological interpretation of the Gupta and post-Gupta polities.
	Introduction to Culture and Heritage of Ancient India	Generic Elective Course (GEC)/ Open Elective Course (OEC)	**HISOEC 1**	CO1: To explain the development of literature in ancient India. CO2: To interpret various religious traditions of ancient India. CO3: To explain the development of art and architecture during the period of study. CO4: To interpret the cultural development during the period.
	Understanding India	Value Added	**VAC**	CO1: To interpret the literary and philosophical development in Ancient

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		Couse (VAC)		India. CO2: To analyze the art and architectural development in early and medieval India CO3: To explain the medieval Bhakti movement and the Sufi tradition. CO4: To develop an understanding of the Constitution of India.
2nd Semester	**Social Formations and Cultural Patterns of Ancient and Medieval World**	Major	**HISC2**	CO1: To explain the historical development of human civilization around the world. CO2: To Compare socio-cultural and economic developments of early medieval human societies. CO3: To explain the challenges and crises faced by these early civilizations and their responses to these crises. CO4: To explain the emergence and development of the major religions.
	History of Medieval India	Minor	**MINHIS2**	CO1: To discuss the political history of India during the Delhi Sultanate. CO2: To discuss the political history of India during the Mughals. CO3: To explain the political developments in the 18th century. CO4. To discuss the developments in the major religious trends and development in the art- - architecture in medieval India.
	Introduction to the Cultural Heritage of Assam	OEC (Open Elective Course)	**HIS-OEC-2**	CO1: To develop an understanding of the archaeological remains of early Assam. CO2: To explain the development of art and architecture in the medieval period with special reference to the Ahoms. CO3: To explain the religious and cultural developments of Medieval Assam. CO4: To evaluate the development of religious institutions and literature in Medieval Assam.

Course Outcome of History for 3rd, 4th, 5th and 6th semester (CBCS):

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**

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3rd Sem.	**History Of India Iii (C. 750 -1206)**	Major	**HISHC105**	CO1. To acquaint the students with the political, agrarian, trade and commerce and religious system of Early India.
	Rise Of The Modern West – I	Major	**HISHC106**	C01. To study about the different changes and developments in Medieval Europe.
	HISTORY OF INDIA IV (c.1206 - 1550)	Major	**HISHC107**	C01. Understanding about different aspects of the Sultanate period of Medieval Indian History.
	HISTORY OF INDIA: 1526 – 1947	Generic	**HISGE 3**	CO1. The paper aims to provide a comprehensive idea about the Mughal rule in India, the disintegration of the kingdom and the establishment of the colonial rule in India.
4th Sem.	**RISE OF THE MODERN WEST-II**	Major	**HISHC108**	CO1. To acquaint the students with the developments in world history in the early colonial period from the 17th-18th century.
	HISTORY OF INDIA V (c. 1550 - 1605)	Major	**HISHC109**	CO1. Understanding about different aspects of the Mughal period of Medieval Indian History.
	HISTORY OF INDIA VI (c. 1605 - 1750s)	Major	**HISHC1010**	CO1. To study the sources, political culture, visual culture, trade and commerce during the Mughal period and to understand the political developments in the reign of Aurangzeb.
	HISTORY OF MODERN ASSAM: 1826 – 1947	Generic	**HISGE 4**	CO1. Students will gain an idea about the history of colonial Assam and the freedom movement in the state.
	History of Modern Europe -I- (c. 1780-1919)	Major	**HISHC1011**	CO1. To study about the different political movements in Europe from the Eighteenth to the Twentieth Century.
	HISTORY OF INDIA VII (c. 1750 - 1857)	Major	**HISHC1012**	CO1. To acquaint the students with the theories, ideology and the economic repercussions of the British rule in India and to study about the resulting revolts.
	EARLY AND MEDIEVAL	(Discipline Specific	**HISHDSE501**	CO1. To introduce the students to the history of Assam with respect to

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	ASSAM TILL 1826	Elective) DSE		the ancient and specifically the medieval period.
5th Semeseter	**HISTORY OF MODERN ASSAM: 1826 – 1947**	DSE	**HISHDSE502**	CO1. To study about the fall of the Ahom monarchy and the political developments resulting in the establishment of the British rule in Assam. The paper also will help understand the struggle for freedom in Assam.
	Mechanics	DSE	**DSE2.2**	CO1. To develop the mathematical background of mechanics that predict the effects of force and motion.
	Number Theory	DSE	**DSE2.3**	CO1. To gain knowledge more about number theory and hence to solve Diophantine equations. CO2. To define the number theoretic functions.
6th Semester	**HISTORY OF INDIA VIII (c. 1857 - 1950)**	Major	**HISHC1013**	CO1. To explore the concepts of Topological structures and the generalize theory of Real analysis. CO2. Students will enable to understand the general theory of complex analysis such as Analytic function, Complex Integrals, Power Series, Poles and Residues.
	HISTORY OF MODERN EUROPE II (c. 1780 -1939)	Major	**HISHC1014**	CO1. To understand about the economic and social developments in early, medieval and colonial Assam.
	Social and Economic History of Assam	DSE	**HISHDSE601**	CO1. To develop an understanding about the sources, meaning and scope of history. To know about the evolution of historiography and the historical traditions in early, medieval and colonial Assam.
	HISTORY OF THE UNITED STATES OF AMERICA (c.1776-1945)	DSE	**HISHDSE603**	CO1. To provide a rigorous and complete development of the theoretical and computational aspects of linear programming as well as discussion of several practical applications.

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Department of Mathematics

Course Outcome for 1st and 2nd semester (NEP)

FOUR YEARS UNDER GRADUATE PROGRAMME (FYUGP)

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**
1ST Semester	**Calculus and Classical Algebra**	Major	**MTHC1**	CO1: Apply De'Moivre theorem to different problems. CO2: Discuss expansion of trigonometric and hyperbolic functions. CO3: Apply Leibniz theorem to obtain successive differentiation. CO4: Utilize L'Hospital rule in finding limit of quotient of functions. CO5: Evaluate maxima and minima of functions. CO6: Describe reduction formula involving both trigonometric and logarithmic functions CO7: Evaluate length of curves and area & volume of revolution of curves. CO8: State well ordering property of positive integers and fundamental theorem of Algebra.

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				Division and Euclidean Algorithm to find GCD. CO10: Describe congruence relation between integers. CO11: Demonstrate row reduction and echelon form of matrix. CO12: Solve system of linear equations.
	Differential Calculus	Minor	**MINMTH 1**	CO1: define limit, continuity and differentiability and solve the problems. CO2: get the knowledge of partial differentiations and evaluate partial differentials. CO3: apply differential calculus in finding tangent, normal etc. and trace a curve. CO 4: analyse Rolle's theorem, mean value theorem etc. and interpret them.
	Foundation in Mathematics-I	Generic Elective Course (GEC)	**GECMTH 1A**	CO1: Interpret and communicate quantitative information and mathematical and statistical concepts. CO2: Understanding the fundamental concepts of logic and set theory and apply the knowledge to everyday matters. CO3: Explore how relations and functions are applicable in daily life. CO4: Understand the foundation of calculus and its applications in mathematics and physics. CO5: Systematic approach for solving problems and finding solutions in various fields, from physics to finance.
	Computer Laboratory-I	Skill Enhancement Course (SEC)	**SEC115**	CO1: Demonstrate proficiency in using basic commands in Matlab/Mathematica to evaluate mathematical expressions and solve algebraic equations. CO2: Analyze graphs of various functions and polynomials using Matlab/Mathematica to understand their properties. CO3: Utilize techniques for sketching conics and parametric curves using Matlab/Mathematica to explore their geometric properties. CO4: Apply Matlab/Mathematica to obtain

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				surfaces and volumes of revolution and perform matrix operations. CO5: Interpret the procedural steps involved in using Matlab/Mathematica for various mathematical computations.
2nd Semester	**Real Analysis and Differential Equations**	Major	**MTHC2**	CO1: Demonstrate the Algebraic, Order and the Completeness properties of the real numbers. CO2: Examine the convergence of real sequences and series. CO3: Execute various solution concepts of differential equations. CO4: Describe the solution techniques of homogeneous and non-homogeneous differential equations of second order.
	Real Analysis	Minor	**MINMTH 2**	CO1: Demonstrate the Algebraic, Order and the Completeness properties of the real numbers. CO2: Examine the convergence of real sequences and series. CO3: Apply standard tests for convergence of sequences and series.
	Foundation in Mathematics-II	Generic Elective Course (GEC)	**GECMTH 2A**	CO1: Apply systematic strategies to count possible outcomes. CO2: Understanding the fundamental concepts of interpolation methods. CO3: Understand the basic concepts of probability, random variables. CO4: Understand the foundation of economic models, market analysis, and final forecasting. CO5: Use moment generating functions to find moments.
	Computer Laboratory-II	Skill Enhancement Course (SEC)	**SEC214**	CO1: Utilize modeling techniques to solve real-life problems such as exponential decay and lake pollution using MATHEMATICA/MATLAB. CO2: Interpret recursive sequences and sequences of partial sums to understand their convergence

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				properties. CO3: Implement and study drug assimilation models and limited growth population models. CO4: Apply ecological and epidemiological models. CO5: Verify mathematical theorems and concepts through plotting and analysis.

Course Outcome of Mathematics for 3rd, 4th, 5th and 6th semester (CBCS):

Semester	TITLE OF THE COURSE	COURSE NATURE	COURSE CODE	COURSE OUTCOMES
3rd Sem.	**Theory of real functions**	Major	**C3.1**	CO1. To learn the analytical aspects of mathematical concepts such as limit, continuity, derivatives, integration etc.
	Group Theory I	Major	**C3.2**	CO1. To describe various group structures on sets. To identify the group structures, present in different branches of sciences.
	PDE and Systems of ODE	Major	**C3.3**	CO1. Students will be able to develop mathematical formulations of various physical phenomena using partial differential equations and their solutions. CO2. To solve systems of linear differential equations related to real world problems using analytical, numerical, and graphical techniques.
	Real Analysis	Generic	**GE 3.1**	CO1. Describe the various analytical properties such as limit theorems, convergence theorems, convergence test etc.
4th Sem.	**Numerical Methods**	Major	**C4.1**	CO1. To better understandings of the numerical methods such as Bisection, Newton-Raphson etc., and their applications in engineering fields.
	Riemann	Major	**C4.2**	CO1. To develop a deep and

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	Integration and Series of Functions			rigorous understanding of Riemann Integration, Beta and Gamma functions, Series of functions, and theorems related to series convergence.
	Ring Theory and Linear Algebra I	Major	**C4.3**	CO1. The course gives rigorous and thorough analytical concepts and applications of various aspects of linear algebra and analysis with applications. CO2. Extension of group theory will be learned. Basics of Ring theory, geometric structures, and their links to other branches of mathematics will be taught.
	Algebra	Generic	**GE4.1**	CO1. To describe various group structures on sets. To identify the group structures, present in different branches of sciences. CO2. Extension of group theory will be learned. Basics of Ring theory, geometric structures, and their links to other branches of mathematics will be taught.
5th Semeseter	**Multivariable Calculus**	Major	**C5.1**	CO1. To develop a deep and rigorous understanding of Functions of several variables, Line integral, Double Integral, Surface Integral, Volume Integral, and their applications.
	Group Theory II	Major	**C5.2**	CO1. To learn the more concepts of group theory based on preliminary theories. CO2. Application of group theory in the various field of sciences will learn.
	Analytical Geometry	(Discipline Specific Elective) DSE	**DSE 1.1**	CO1. Introductory concepts of parabola, ellipse and hyperbola and their sketching. CO2. To solve mathematical problems using analytical geometry techniques.
	Financial Mathematics	DSE	**DSE 1.2**	CO1. Students will learn to apply the basic concepts of mathematics in

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				the field of Economics, Finance, and Industry.
	Mechanics	DSE	**DSE2.2**	CO1. To develop the mathematical background of mechanics that predict the effects of force and motion.
	Number Theory	DSE	**DSE2.3**	CO1. To gain knowledge more about number theory and hence to solve Diophantine equations. CO2. To define the number theoretic functions.
6th Semester	**Metric Space and Complex Analysis**	Major	**C6.1**	CO1. To explore the concepts of Topological structures and the generalize theory of Real analysis. CO2. Students will enable to understand the general theory of complex analysis such as Analytic function, Complex Integrals, Power Series, Poles and Residues.
	Ring Theory and Linear algebra II	Major	**C6.2**	CO1. Students will acquaint with some extensions theory of rings to solve physical problems. CO2. To understand the relationship between operations of linear transformations and corresponding matrices.
	Hydromechanics	DSE	**DSE 3.1**	CO1. To introduce and explain fundamentals of fluid mechanics which provide the methods for studying the phenomena of physical sciences.
	Linear programming	DSE	**DSE 3.2**	CO1. To provide a rigorous and complete development of the theoretical and computational aspects of linear programming as well as discussion of several practical applications.
	Mathematical Methods	DSE	**DSE 4.1**	CO1. Students will learn to analyse and design of continuous time signals and systems using Laplace's and Fourier transformations.
	Probability and	DSE	**DSC 4.3**	CO1. Students will learn how to

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	Statistics			organize and summarized the data through statistical methods. To Assess the strengths of the conclusions and evaluate the uncertainty of physical phenomena using probabilistic concepts.

Department of Physics

Course Outcome for 1st and 2nd semester (NEP)

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FOUR YEARS UNDER GRADUATE PROGRAMME (FYUGP)

Semester	TITLE OF THE COURSE	COURSE NATURE	COURSE CODE	COURSE OUTCOMES
1st Semester	**Mechanics and Properties of Matter**	Major	**C1**	**CO1:** To impart the knowledge of Newtonian mechanics and its role in relevant areas. **CO2:** To impart the knowledge of properties of matter. **CO3:** To develop the concepts of special theory of relativity.
	Mechanics	Minor	M1	CO1: To impart the knowledge of Newtonian mechanics and properties of matter. CO2: To impart the concepts of special theory of relativity
2nd Semester	**Waves and Optics**	Major	**C2**	**CO1:** To develop the theoretical knowledge of waves and oscillations and superposition principle. **CO2:** To acquaint the learner with the interesting phenomena of light. **CO3:** To build the theoretical knowledge of various optical instruments.
	Waves and Optics	Minor	**M2**	**CO1:** Enable the students to analyze different phenomena due to the interaction of light with light and matter. **CO2:** Train the students to use different optical instruments. **CO3:** Help the students to understand various natural phenomena using different apparatus in the laboratory.

Course Outcome of Physics for 3rd, 4th, 5th and 6th semester (CBCS):

Semester	TITLE OF THE COURSE	COURSE NATURE	COURSE CODE	COURSE OUTCOMES
	Mathematical Physics-II	Major	**C5**	**CO1**: Understand and apply Fourier series to solve problems in physics, interpreting how

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3rd Sem.				periodic functions can be represented as sums of sines and cosines. **CO2**: Solve differential equations using the Frobenius method and identify special functions arising in various physical contexts, such as Legendre, Bessel, and Hermite functions. **CO3**: Evaluate special integrals, including beta, gamma, and error functions, and demonstrate their relevance in physical and mathematical applications. **CO4**: Analyse and quantify measurement errors using the theory of errors, differentiating between various types of errors and applying statistical tools to improve accuracy and precision. **CO5**: Formulate and solve partial differential equations that appear in physical phenomena such as heat conduction, wave propagation, and Laplace's equation.
	Thermal Physics	Major	**C6**	**CO1**: Demonstrate a comprehensive understanding of the laws of thermodynamics and apply them to analyse various physical systems. **CO2**: Explain the concept of entropy and apply it to reversible and irreversible processes, understanding its significance in the directionality of natural processes. **CO3**: Utilize thermodynamic potentials to derive relations between different thermodynamic variables and understand their applications in various physical contexts. **CO4**: Derive and apply

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				Maxwell's thermodynamic equations to solve problems related to the interrelations of thermodynamic properties. **CO5**: Analyse the principles of the kinetic theory of gases, including the distribution of molecular velocities and the behaviour of real gases, and evaluate how molecular collisions influence macroscopic properties.
	Digital Systems and Applications	Major	**C7**	**CO1**: Demonstrate proficiency in using a Cathode Ray Oscilloscope (CRO) for analysing and measuring electrical signals in digital circuits. **CO2**: Understand the principles of integrated circuits and their role in designing and implementing digital systems. **CO3**: Apply Boolean algebra to simplify and design digital circuits, including logic gates and combinational logic. **CO4**: Design and analyse data processing and arithmetic circuits, understanding their use in real-world digital applications. **CO5**: Develop and interpret the functionality of sequential circuits such as timers, shift registers, and counters, and apply them to practical problems. **CO6**: Explain computer organization concepts and describe the architecture and working of the Intel 8085 microprocessor. **CO7**: Write and execute basic assembly language programs for the Intel 8085 microprocessor, understanding the fundamentals of low-level programming.

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	Thermal Physics and Statistical Mechanics	Generic	**GE3**	**CO1:** Develop the working knowledge of the laws and methods of thermodynamics and elementary statistical mechanics. **CO2:** Provide insight to the postulates of Statistical Mechanics and statistical interpretation of Thermodynamics. **CO3:** Understand the laws of radiation and acquire knowledge for their applications in various disciplines in Physics, Chemistry, Biology, Earth and Atmospheric Sciences. **CO4**: Develop application-oriented knowledge on laws of statistical mechanics in selected problems. **CO5**: Use the methodologies, conventions and tools of thermal and statistical physics to test and communicate ideas and explanation.
4th Sem.	**Mathematical Physics-III**	Major	**C8**	**CO1**: Apply concepts of complex analysis, including complex functions, contour integration, and the residue theorem, to solve physics problems involving complex variables. **CO2**: Utilize integral transforms, such as Fourier and Laplace transforms, to simplify and solve differential equations encountered in physics. **CO3**: Demonstrate proficiency in using Laplace transforms to analyse and solve linear ordinary differential equations, especially in the context of initial and boundary value problems in physical systems.
	Elements of Modern Physics	Major	**C9**	**CO1**: Understand and explain the key concepts and experimental

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				foundations of modern physics, including the photoelectric effect, Compton scattering, and wave-particle duality. **CO2**: Describe the structure of the atom and explain the significance of quantum mechanics in atomic models, such as the Bohr model and quantum mechanical atom. **CO3**: Solve problems using the Schrödinger equation for simple systems and interpret the physical meaning of wavefunctions, energy quantization, and probability densities. **CO4**: Discuss the basics of nuclear physics, including the properties of the nucleus, nuclear reactions, and applications in fields like energy generation and medical imaging.
	Analog Systems and Applications	Major	C10	**CO1**: Understand the working principles of analog components such as diodes, transistors, and operational amplifiers, and apply them in designing basic electronic circuits. **CO2**: Analyse and design amplifier circuits, including small-signal and power amplifiers, and evaluate their performance parameters such as gain, input/output impedance, and frequency response. **CO3**: Explain the operation of oscillators, waveform generators, and filters, and design circuits for signal processing applications. **CO4**: Apply the concepts of feedback in amplifiers and oscillators to stabilize and improve circuit performance. **CO5**: Demonstrate an

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				understanding of analog-to-digital and digital-to-analog conversion techniques and their applications in real-world electronic systems. **CO6**: Explore the principles of analog communication systems, including modulation and demodulation techniques, and assess their effectiveness in signal transmission.
	Waves and Optics	Generic	**GE4**	**CO1:** Learn the basic ideas of the behaviour of light based on its wave nature. **CO2:** Develop the knowledge of the different phenomena due to the interaction of light among them and with mater. **CO3:** Learn about some fundamental principles of light which is used in different optical instrument which very essential for Physics student.
5th Semeseter	**Quantum Mechanics and Applications**	Major	**C11**	**CO1**: Understand the fundamental principles of quantum mechanics, including wave-particle duality, the uncertainty principle, and the postulates of quantum mechanics. **CO2**: Apply the Schrödinger equation to solve problems involving potential wells, harmonic oscillators, and quantum tunnelling, and interpret the physical significance of the solutions. **CO3**: Analyse the concepts of angular momentum and spin in quantum mechanics, and solve problems involving the quantization of angular momentum and spin operators. **CO4**: Use quantum mechanical

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				operators and commutator relationships to derive important results and understand the role of observables and measurements in quantum theory. **CO5**: Explain the quantum mechanical description of the hydrogen atom and extend the understanding to multi-electron atoms.
	Solid State Physics	Major	**C12**	**CO1**: Explain the crystal structure of solids, including lattice types, unit cells, and the principles of X-ray diffraction and crystallography. **CO2**: Analyse the concept of phonons and understand the role of lattice vibrations in determining the thermal properties of solids. **CO3**: Apply the free electron and band theories to describe the electrical properties of metals, insulators, and semiconductors. **CO4**: Understand the concept of energy bands and explain how electronic band structure influences the electrical and optical properties of materials. **CO5**: Discuss the principles of magnetism, types of magnetic ordering, and the behaviour of materials under the influence of magnetic fields. **CO6**: Describe the phenomena of superconductivity, including the basic theory, characteristics of superconductors, and applications in modern technology.
	Classical Dynamics	(Discipline Specific Elective) DSE	**DSE1**	**CO1:** Understand the underlying facts in the development of classical mechanics and the advantages of its formulation

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				over Newtonian mechanics. **CO2:** Describe mechanics of a system in terms of equation of motion. **CO3:** Understand Lagrangian formulation and Hamiltonian formulation of mechanics and their applications in mechanical problems. **CO4:** Study the theoretical analysis of systems oscillating with small amplitudes. **CO5:** Observe the peculiar phenomena when transformed from Newtonian relativity to special relativity and to understand the concept of space-time.
	Astronomy and Astrophysics	DSE	DSE 2	**CO1**: Understand the fundamental concepts of astronomy, including celestial mechanics, coordinate systems, and the observation of astronomical objects. **CO2**: Apply the principles of astrophysics to analyse the dynamics of galaxies and understand the large-scale structure of the universe. **CO3**: Describe the key concepts of cosmology, such as the Big Bang theory, cosmic microwave background radiation, and the expansion of the universe. **CO4**: Utilize observational techniques and data from telescopes and space missions to study the properties of celestial objects, including spectroscopy and photometry.
	Electromagnetic Theory	Major	**C13**	**CO1:** Understand the physical and mathematical principles to provide in-depth analysis of the behaviour of electricity and

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6th Semester				magnetism in matter. **CO2:** Apply Maxwell's equations to explain the properties of the electromagnetic wave and its interaction with matter. **CO3:** Analyse the principles and processes related to polarization, interference, and diffraction along with their applications to the development of wave-guide and optical fibres.
	Statistical Mechanics	Major	C14	**CO1**: Understand the fundamental principles of statistical mechanics and distinguish between different statistical ensembles (microcanonical, canonical, and grand canonical). **CO2**: Analyse the connection between thermodynamics and statistical mechanics, and use statistical methods to derive the laws of thermodynamics. **CO3**: Explore quantum statistics, including Bose-Einstein and Fermi-Dirac distributions, and apply these concepts to phenomena such as blackbody radiation, Bose-Einstein condensation, and electron behaviour in metals.
	Nuclear and Particle Physics	DSE	**DSE3**	**CO1**: Understand the fundamental concepts of nuclear physics, including nuclear structure, binding energy, and nuclear reactions. **CO2**: Analyse various types of nuclear decay processes, such as alpha, beta, and gamma decay, and apply the principles of radioactive decay and half-life calculations. **CO3**: Explain the principles behind nuclear models, such as

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				the liquid drop model and the shell model, and apply them to describe nuclear stability and reactions. **CO4**: Understand the interactions and classification of elementary particles, and describe the fundamental forces in particle physics (gravitational, electromagnetic, weak, and strong forces).
	Experimental Techniques	DSE	**DSE4**	**CO1:** Enhance experimental knowledge. **CO2:** Develop the theoretical as well as experimental knowledge of different instruments and instrumentation. **CO3:** Enhance the knowledge of some measurement techniques and data and error analysis technique.

Department of Political Science

Course Outcome for 1st and 2nd semester (NEP)

FOUR YEARS UNDER GRADUATE PROGRAMME (FYUGP)

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**
	Understanding Political Theory	Major	**PSCC1**	**CO1**: Analyse the evolution, approaches and relevance of the study of political theory **CO2**: Interpret various schools of thought in political theory **CO3**: Illustrate the contemporary

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				perspectives in political theory **CO4**: Explain the different concepts and theories of state and citizenship **CO5**: Assess the nature and diversities of democracy
1st Semester	**Concepts and Debates in Political Theory**	Minor	**MINPSC1**	**CO1**: Analyse the concept and relevance of the study of political theory. **CO2**: Examine the concepts of liberty, equality and justice in political theory. **CO3**: Assess the concepts of rights and democracy in political theory. **CO4**: Explain the concept of citizenship in political theory. **CO5**: Evaluate the nature of state and civil society in political theory.
	Human Rights	Generic Elective Course (GEC)	**GECPSC1**	**CO1**: Describe the concept and the institutional frameworks of human rights. **CO2**: Examine the functioning of human rights institutions in the Indian context. **CO3**: Analyse the human rights movements in India.
	Legal Literacy	SEC	**SEC107**	**CO1**: Analyse the legal system and its functioning in India. **CO2**: Describe the criminal procedures and other laws related to different crimes. **CO3**: Apply the knowledge of the legal system in solving socio-political issues.
2nd Semester	**Indian Government and Politics**	Major	**PSCC2**	**CO1**: Describe the structure and features of the Indian Constitution. **CO2**: Examine the institutional design of the Indian constitution. **CO3**: Assess the various dimensions of federalism in India. **CO4**: Analyse the process of decentralisation and local governance in India.
	Introduction to Indian Politics	Minor	**MINPSC2**	**CO1**: Examine the various approaches in the study of Indian Politics. **CO2**: Describe the structure and features of the Indian Constitution. **CO3**: Assess the electoral processes in India. **CO4**: Evaluate the contemporary debates in Indian politics.
	Understanding Gandhi and Ambedkar	GEC	**GECPSC2**	**CO1**: Analyse the ideas of Gandhi and their socio-political relevance. **CO2**: Examine the ideas of Ambedkar and their socio-political relevance.

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				CO3: Compare and contrast the views of Gandhi and Ambedkar.
	Legislative Procedures in India	SEC	**SEC207**	**CO1**: Examine the powers, procedures and functioning of the Indian parliament. **CO2**: Analyse motion and law-making procedures in the Indian Parliament. **CO3**: Apply the fundamentals of mock parliament.

Course Outcome of Pol. Sci.for 3rd, 4th, 5th and 6th semester (CBCS):

Semester	TITLE OF THE COURSE	COURSE NATURE	COURSE CODE	COURSE OUTCOMES
3rd Sem.	**Introduction to Comparative Government and Politics**	Major	**C5**	**CO1**. The Course designed to introduce the students to familiarizing with the concepts and approach to the study of comparative politics.
	Perspective on Public Administration	Major	**C6**	**C01**. The Course designed to introduce the students to familiarizing with the historical context with an emphasis on the various classical and contemporary administrative theories.
	Perspectives on International Relations and World History	Major	**C7**	**C01**. The Course designed to introduce the students to familiarizing with the most important theoretical approaches for studying International Relations and historically contextualizing the evolution of the International State system before discussing the agency structure problem through the levels of analysis approach.
	Governance: Issues and Challenges	Generic	**GE 3B**	**CO1**. The course design to introduce to help the students to understand the Governance: Issues and Challenges with concepts and different dimensions of governance highlighting the major debates in the contemporary times.
4th Sem.	**Political Processes and Institutions in Comparative Perspective**	Major	**C8**	**CO1**. The Course designed to introduce the students to train up in the application of comparative methods to the study of politics.

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	Public Policy and Administration in India	Major	**C9**	**CO1**. The Course designed to introduce the students to the interface between public policies and administration in India.
	Global Politics	Major	**C10**	**CO1**. The Course designed to introduce the students to the key debates on the meaning and nature of globalization by addressing its political, economic, social, cultural and technological dimensions.
	Politics of Globalization	Generic	**GE 4A**	**CO1**. The course design to introduce to help the students to understand the divers background understand the process of globalization from a political perspectives.
5th Semeseter	**Classical Political Philosophy**	Major	**C11**	**CO1**. The Course designed to introduce the students to Greek antiquity and familiarizing the manner in which the political question first posed.
	Indian Political Philosophy	Major	**C12**	**CO1**. The Course designed to introduce the students to the basic focus of study is on individual thinker whose ideas are however framed by specific themes.
	Contemporary Politics in Assam	(Discipline Specific Elective) DSE	**DSE- 1A**	**CO1**. The Course designed to introduce the students with the politics of contemporary Assam.
	Human Rights in a comparative perspective	DSE	**DSE – 2A**	**CO1**. The Course designed to introduce the students with human rights with specific and contemporary issues in a comparative perspectives.
6th Semester	**Modern Political Philosophy**	Major	**C13**	**CO1**. The Course designed to introduce the students to the manner in which the questions of politics have been posed in terms that have implication for larger question of thoughts and existence.
	Indian Political Thought-II	Major	**C14**	**CO1**. The Course designed to introduce the students to modernity of Indian Political Thoughts and varied social and temporal context.
	Public Policy in	DSE	**DSE- 3A**	**CO1**. The Course designed to

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	India			introduce the students with the domestic sources and the structural constrains on the genesis.
	India's Foreign Policy in Globalizing world	DSE	**DSE- 4A**	**CO1**. The Course designed to introduce the students with interesting and insightful way of knowing and thinking world around them

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Department of Zoology

Course Outcome for 1st and 2nd semester (NEP)

FOUR YEARS UNDER GRADUATE PROGRAMME (FYUGP)

Semester	**TITLE OF THE COURSE**	**COURSE NATURE**	**COURSE CODE**	**COURSE OUTCOMES**
1st Semester	**Animal Diversity I**	Major	**ZOO-C-01**	**C01:** Describe different phyla in animal kingdom **C02**: Organize the organisms in different categories based on morphological characteristics **C03**: Analyze the interrelationship among different species and genera within each group of animals.
	Animal Diversity I	Minor	**ZOO-MIN-01**	**C01:** Describe different phyla in animal kingdom. **C02**: Organize the organisms in different categories based on morphological characteristics. **C03**: Analyze the interrelationship among different species and genera within each group of animals.
	Natural Resource Management	Generic Elective Course (GEC)	**ZOO-GEC-01**	**CO1**: Distinguish between renewable and non-renewable resources. **CO2**: Analyse threats to natural and biological resources of NE India **CO3**: Examine management strategies for sustainable utilization of resources.
	Freshwater Aquaculture	Skill Enhancement Course (SEC)	**ZOO-SEC 01 A**	**CO1**: Analyze concept of freshwater aquaculture. Distinguish between renewable and non-renewable resources. **CO2**: Evaluate the technique of fish rearing, transportation and the technique of induced breeding. **CO3**: Discuss the maintenance of fish health.
	APICULTURE	SEC	**ZOO- SEC 01 B**	**C01**: Discuss the concept of apiculture **C02:** Analyze bee rearing process and tools used in bee keeping **C03:** Analyze the bee diseases
	Animal	Major	**ZOO-C-02**	**CO1**: Describe different phyla in animal

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2nd Semester	**Diversity II**			kingdom. **CO2**: Organize the organisms in different categories based on morphological characteristics. **CO3**: Analyze the interrelationship among different species and genera within each group of Animals.
	Animal Diversity II	Minor	**ZOO-MIN-02**	**CO1**: Describe different phyla in animal kingdom. **CO2**: Organize the organisms in different categories based on morphological characteristics. **CO3**: Analyze the interrelationship among different species and genera within each group of Animals.
	Wildlife conservation and management	Generic Elective Course (GEC)	**ZOO-GEC2**	**CO1**: Students learn how to identify animals and plants, and give them scientific names. They also learn about the ecological and historical underpinnings for understanding species distribution and abundance **CO2**: Students learn about implementing habitat management strategies, identifying animal conflicts, and taking part in personal and community leadership development activities and planning.
	Environmental Science	VAC	**VAC 2**	**CO1.** Students can learn to identify the physical, chemical, and biological components of the Earth's systems and how they function. They can also learn to recognize the interconnected nature of environmental problems and the role of humans in them.
	SERICULTURE	Skill Enhancement Course (SEC)	**ZOO-SEC 02 A**	**CO1**: Analyze the concept of sericulture. **CO2**: Evaluate the rearing technique and associated tools. **CO3**: Examine the diseases and learn the control measures.
	AQUARIUM FISH KEEPING	SEC	**ZOO- SEC 02 B**	**CO1**: Analyze the concept of aquarium fish keeping. **CO2**: Discuss ornamental fishes and their importance. **CO3**: Evaluate the technique of fish feed preparation.

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Course Outcome of Zoology for 3rd, 4th, 5th and 6th semester (CBCS):

Semester	TITLE OF THE COURSE	COURSE NATURE	COURSE CODE	COURSE OUTCOMES
3rd Sem.	**Diversity of Chordates**	Major	**ZC305T**	**CO1**: To expose the students to various forms of chordates with their characteristics and classification. **CO2**: To develop an understanding on some of the important structural anatomy and important characters of selected chordates. **CO3**: To expose the students to various theories that explain the distribution of animals based on climate, geography, geological history and evolutionary history.
			ZC 305P	**CO1**: To introduce the students to some selected chordate specimens and develop their understanding by studying their characters and classifying them. **CO2**: To get an understanding on the identification of poisonous and non poisonous snakes. **CO3**: To develop an understanding on the types of beaks and claws of some birds.
	Animal Physiology: Controlling and coordinating systems	Major	**ZC306T**	**CO1**: To provide a foundation for understanding the different tissues of an animal, their types, structure, location and functions. **CO2**: To get an understanding on the Histology and Physiology of reproductive and endocrine glands. **CO3**: To develop an understanding on the different hormones of endocrine glands, their mode of action and regulation.
			ZC306P	**CO1**: To study permanent slides and get an idea on the different types of tissues and endocrine glands based on Histology. **CO2**: To develop an understanding on muscle contraction based on muscle twitch and knee jerk experiments. **CO3**: To get an idea about preparation of permanent slides by process of microtomy .

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	Fundamentals of Biochemistry	Major	**ZC 307T**	**CO1**: To expose the students to the biomolecules of living organisms- carbohydrates, proteins, lipids , nucleic acids, their classification, properties and functions. **CO2**: To develop an understanding on the enzyme activity and effect of certain factors on the action of a selected enzyme.
	Human Physiology	Generic	**GE3**	**CO1:** Students can learn about the structure and function of the body's major organ systems, and how these systems interact. They can also learn how the body changes during development, aging, and disease.
4th Sem.	**Comparative Anatomy of Vertebrates.**	Major	**ZC408T**	**CO1**: To introduce the concepts of the basic organ systems of vertebrates and make a comparison between important vertebrate classes. **CO2**: To develop an understanding on the evolutionary development of some selected organs.
			ZC408P	**CO1**: To get an idea on the scales of some fishes and skeletal system of some selected animals with the help of slides and bone specimens. **CO2**: To get a basic idea on some selected organ systems with the help of videos and dissections.
	Animal Physiology: Life sustaining systems.	Major	**ZC409T**	**CO1**: To give a basic idea on the different physiological functions of organ systems in animal body. **CO2**: To introduce the morphological and histological structures of some selected organ systems.
			ZC409P	**CO1**: To introduce the types of blood groups and blood cell types using different tools. **CO2**: To give basic ideas on the Histology of different organs.
	Biochemistry of Metabolic processes	Major	**ZC410T**	**CO1**: To give a basic idea on the metabolic processes of a cell.

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			ZC410P	**CO1**: To develop an understanding on the activity of some selected enzymes. **CO2**: To give an idea on the amount of protein present in a solution.
	Environment and Public health	Generic	**GE4**	**CO1:** Students can learn about the connection between environmental factors and community health, and how to discuss solutions to environmental health problems.
5th Semeseter	**Molecular Biology**	Major	**ZC511T** **ZC511P**	**CO1**: To develop an understanding on the salient features of DNA and RNA. **CO2**: To get an idea on how the genes and mRNAs are regulated. **CO1**: To get an idea on how DNA and RNA is estimated using different assay methods. **CO2**: To develop an understanding on chromosomes, DNA replication, transcription and genes by studying photographs.
	Principles of Genetics.	Major	**ZC512T** **ZC512P**	**CO1**: To develop an understanding on Mendelian Genetics. **CO2**: To get an idea on linkage and crossing over and mutation. **CO3**: To get an idea on recombination of bacteria and other genetic elements. **CO1**: To get a practical knowledge on Mendelian Genetics, recombination and chromosomal maps. **CO2**: To get an idea on Pedigree Analysis of some inherited traits of human.
	Endocrinology	(Discipline Specific Elective) DSE	**ZD503T** **ZD503P**	**CO1**: To develop an understanding on the endocrine glands, their hormones and related disorders. **CO2**: To get an idea on how hormones are regulated and their mechanism of action. **CO1**: To develop practical knowledge on the structure and Histology of endocrine glands.
	Biology of Insecta	DSE	**ZD504T**	**CO1**: To introduce the classification, morphology and Physiology of insects. **CO2**: To develop an understanding on how plants and insects interact among themselves.

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			ZD504P	**CO1**: To develop practical knowledge on the morphological structures of insects, methods of insect collection and preservation. **CO2**: To get an idea on some important pest and beneficial insects.
6th Semester	**Developmental Biology**	Major	**ZC613T**	**CO1**: To develop basic concepts on development of an embryo.
			ZC613P	**CO1**: To get a practical knowledge on the developmental stages of chick embryo, Drosophila and frog.
	Evolutionary Biology	Major	**ZC614T**	**CO1**: To develop an idea on the concepts related to the origin of life, theories related to evolution and population genetics. **CO2**: To develop an understanding on the evolutionary descent of species from a common ancestor.
			ZC614P	**CO1**: To develop practical knowledge on evolutionary biology by studying fossils and population genetics.
	Immunology	DSE	**ZD608T**	**CO1**: To develop an understanding on the immune system types mechanism pathways and pathway. **C02**: To get an idea on vaccines and its types.
			ZD608P	**C01**: To develop a practical knowledge on different organs involved in immune system. **C02**: To get an idea about the tools and techniques used in immunology.
	Parasitology	DSE	**ZD609T**	**CO1:** To get an idea about the hosts, parasites and vectors of some diseases. **C02**: To develop an understanding about the life cycle and diseases caused by the parasites on human and animals.
			ZD609P	**C01:** To study the life stages of some selected parasites with the help of permanent slides and photographs.

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