

## GENERIC ELECTIVES (GE)

### CHEMISTRY

#### **GE – 1: Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons**

CO-1	Solve the conceptual questions using the knowledge gained by studying the quantum mechanical model of the atom, quantum numbers, electronic configuration, radial and angular distribution curves, shapes of s, p, and d orbitals, and periodicity in atomic radii, ionic radii, ionization energy and electron affinity of elements
CO-2	Draw the plausible structures and geometries of molecules using radius ratio rules, VSEPR theory and MO diagrams (homo- & hetero-nuclear diatomic molecules)
CO-3	Understand and explain the differential behavior of organic compounds based on fundamental concepts learnt
CO-4	Formulate the mechanism of organic reactions by recalling and correlating the fundamental properties of the reactants involved
CO-5	Learn and identify many organic reaction mechanisms including free radical substitution, electrophilic addition and electrophilic aromatic substitution

#### **GE – 2: Chemistry of S and P Block Elements, States of matter and Chemical Kinetics**

CO-1	Understand the chemistry and applications of s- and p-block elements
CO-2	Derive ideal gas law from kinetic theory of gases and explain why the real gases deviate from ideal behaviour
CO-3	Explain Maxwell-Boltzmann distribution, critical constants and viscosity of gases
CO-4	Explain the properties of liquids especially surface tension and viscosity
CO-5	Explain symmetry elements, crystal structure specially NaCl, KCl and CsCl
CO-6	Define rate of reactions and the factors that affect the rates of reaction
CO-7	Define rate of reactions and the factors that affect the rates of reaction
CO-8	Understand the concept of rate laws e.g., order, molecularity, half-life and their determination
CO-9	Learn about various theories of reaction rates and how these account for experimental observations

#### **GE – 3: Chemical Energetic, Equilibria and Functional Group Chemistry-I**

CO-1	Understand the laws of thermodynamics, thermochemistry and equilibria
CO-2	Understand concept of pH and its effect on the various physical and chemical properties of the compounds

CO-3	Use the concepts learnt to predict feasibility of chemical reactions and to study the behaviour of reactions in equilibrium
CO-4	Understand the fundamentals of functional group chemistry through the study of methods of preparation, properties and chemical reactions with underlying mechanism
CO-5	Use concepts learnt to understand stereochemistry of a reaction and predict the reaction outcome
CO-6	Design newer synthetic routes for various organic compounds

#### **GE – 4: Molecules of Life**

CO-1	Learn and demonstrate how the structure of biomolecules determines their chemical properties, reactivity and biological uses
CO-2	Gain an insight into mechanism of enzyme action and inhibition
CO-3	Understand the basic principles of drug-receptor interaction and SAR
CO-4	Understand biological processes like replication, transcription and translation
CO-5	Demonstrate an understanding of metabolic pathways, their inter-relationship, regulation and energy production from biochemical processes

### **COMPUTER SCIENCE**

#### **Programming using Python**

CO-1	Describe the components of a computer and notion of an algorithm
CO-2	Apply suitable programming constructs and built-in data structures to solve a problem
CO-3	Develop, document, and debug modular python programs
CO-4	Use classes and objects in application programs and visualize data

#### **Database Management System**

CO-1	Describe the features of database management systems
CO-2	Differentiate between database systems and file systems
CO-3	Model an application's data requirements using conceptual modelling tools like ER diagrams and design database schemas based on the conceptual model.
CO-4	Write queries in relational algebra / SQL

<b>CO-5</b>	Normalize a given database schema.
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### **Computer Networks**

<b>CO-1</b>	State the use of computer networks and different network topologies
<b>CO-2</b>	Distinguish between LAN, MAN, WAN, and between Intranet, Extranet and Internet
<b>CO-3</b>	Compare OSI and TCP/IP architectures
<b>CO-4</b>	Enumerate different transmission media and describe the use of each of them
<b>CO-5</b>	Design web pages using HTML

### **Information Security and Cyber Laws**

<b>CO-1</b>	Learn, structure, mechanics and evolution of various crime threats
<b>CO-2</b>	Learn to protect information systems from external attacks by developing skills in enterprise security, wireless security and computer forensics.
<b>CO-3</b>	Analyse the risks involved while sharing their information in cyber space and numerous related solutions like sending protected and digitally signed documents
<b>CO-4</b>	Insights of ethical hacking and usage of password cracking tools
<b>CO-5</b>	Get an overview of different ciphers used for encryption and decryption.

## **ELECTRONICS**

### **Artificial Intelligence**

At the end of this course, Students will be able to

<b>CO1</b>	Build intelligent agents for search and games
<b>CO2</b>	Solve AI problems through programming with Python
<b>CO3</b>	Learning optimization and inference algorithms for model learning
<b>CO4</b>	Design and develop programs for an agent to learn and act in a structured environment

## Digital System Design

At the end of this course, Students will be able to

<b>CO1</b>	Understand and represent numbers in powers of base and converting one from the other
<b>CO2</b>	Understand basic logic gates, concepts of Boolean algebra and techniques
<b>CO3</b>	Analyze and design combinatorial as well as sequential circuits
<b>CO4</b>	Familiar with VHDL design flow

At the end of lab course, Students will be able to

<b>CO1</b>	Familiarize with combinational circuit design
<b>CO2</b>	Familiarize with sequential circuit design
<b>CO3</b>	Write programs in VHDL/Verilog
<b>CO4</b>	Prepare the technical report on the experiments carried

## Instrumentation

At the end of this course, Students will be able to

<b>CO1</b>	Familiarize with the working principle of different measuring instruments
<b>CO2</b>	Understand measuring instruments used in the laboratory like oscilloscopes, signal generators
<b>CO3</b>	Understand working principle of transducers
<b>CO4</b>	Familiarize with the working principle of data acquisition devices and biomedical instruments

At the end of lab course, Students will be able

<b>CO1</b>	To measure various electrical parameters
<b>CO2</b>	To measure characteristics of various sensors and transducers
<b>CO3</b>	To Understand ECG pattern

<b>CO4</b>	To Prepare the technical report on the experiments carried
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### Computational Mathematics

At the end of this course, Students will be able to

<b>CO1</b>	Understand the common numerical methods and how they are used to obtain approximate solutions to mathematical problems
<b>CO2</b>	Derive numerical methods for various mathematical operations and tasks, such as interpolation, differentiation, integration, the solution of linear and nonlinear equations, and the solution of differential equations
<b>CO3</b>	Analyze and evaluate the accuracy of common numerical methods

## MATHS

### GE – 1: Calculus

<b>CO-1</b>	Sketch the curves in Cartesian and polar coordinates as well as learn techniques of sketching the conics.
<b>CO-2</b>	Visualize three dimensional figures and calculate their volumes and surface areas.
<b>CO-3</b>	Understand limits, continuity and derivatives of functions of several variable and vector-valued functions.

### GE – 2: Linear Algebra

<b>CO-1</b>	Visualize the space $\mathbb{R}^3$ in terms of vectors and the interrelation of vectors with matrices, and their application to computer graphics.
<b>CO-2</b>	Familiarize with concepts in vector spaces, namely, basis, dimension and minimal spanning sets.
<b>CO-3</b>	Learn about linear transformations, transition matrix and similarity.
<b>CO-4</b>	Learn about orthogonality and to find approximate solution of inconsistent system of linear equations.

### GE – 3: Differential Equations

<b>CO-1</b>	Solve the exact, linear and Bernoulli equations and find orthogonal trajectories.
<b>CO-2</b>	Apply the method of variation of parameters to solve linear differential equations.
<b>CO-3</b>	Formulate and solve various types of first and second order partial differential equations

#### GE – 4: Numerical Methods

CO-1	Find the consequences of finite precision and the inherent limits of numerical methods.
CO-2	Appropriate numerical methods to solve algebraic and transcendental equations.
CO-3	Solve first order initial value problems of ODE's numerically using Euler methods.

### PHYSICS

#### GE – 1: ELECTRICITY AND MAGNETISM

CO-1	Gain the concepts of vector analysis
CO-2	Apply Gauss's law of electrostatics to solve a variety of problems.
CO-3	Articulate knowledge of electric current, resistance and capacitance in terms of electric field and electric potential
CO-4	Calculate the magnetic forces that act on moving charges and the magnetic fields due to currents (Biot- Savart and Ampere laws)
CO-5	Gain brief idea of dia, para and ferro-magnetic materials
CO-6	Understand the concepts of induction and self-induction, to solve problems using Faraday's and Lenz's laws
CO-7	Have an introduction to Maxwell's equations
CO-8	In the laboratory course the student will get an opportunity to verify network theorems and study different circuits such as RC circuit, LCR circuit. Also, different methods to measure low and high resistance, capacitance etc.

#### GE – 2: Mechanics

CO-1	Understand the role of vectors and coordinate systems in Physics
CO-2	Learn to solve Ordinary Differential Equations: First order, Second order Differential Equations with constant coefficients
CO-3	Understand laws of motion and their application to various dynamical situations
CO-4	Learn the concept of inertial reference frames and Galilean transformations. Also, the concept of conservation of energy, momentum, angular momentum and apply them to basic problems
CO-5	Understand translational and rotational dynamics of a system of particles
CO-6	Apply Kepler's laws to describe the motion of planets and satellite in circular orbit
CO-7	Understand concept of Geosynchronous orbits
CO-8	Explain the phenomenon of simple harmonic motion
CO-9	Understand special theory of relativity - special relativistic effects and their effects on the mass and energy of a moving object
CO-10	In the laboratory course, the student shall perform experiments related to mechanics: compound pendulum, rotational dynamics (Flywheel), elastic properties (Young Modulus and Modulus of Rigidity), fluid dynamics, estimation of random errors in the observations etc

### GE – 3: Waves and Optics

CO-1	Understand Simple harmonic oscillation and superposition principle
CO-2	Understand different types of waves and their velocities: Plane, Spherical, Transverse, Longitudinal
CO-3	Understand Concept of normal modes in transverse and longitudinal waves: their frequencies and configurations
CO-4	Understand Interference as superposition of waves from coherent sources derived from same parent source
CO-5	Demonstrate basic concepts of Diffraction: Superposition of wavelets diffracted from aperture, understand Fraunhofer and Fresnel Diffraction
CO-6	In the laboratory course, student will gain hands-on experience of using various optical instruments and making finer measurements of wavelength of light using Newton Rings experiment, Fresnel Biprism etc. Resolving power of optical equipment can be learnt first-hand. The motion of coupled oscillators, study of Lissajous figures and behaviour of transverse, longitudinal waves can be learnt in this laboratory course

### GE – 4: Thermal Physics and Statistical Mechanics

CO-1	Learn the basic concepts of thermodynamics, the first and the second law of thermodynamics, the concept of entropy and the associated theorems, the thermodynamic potentials and their physical interpretations. They are also expected to learn Maxwell's thermodynamic relations
CO-2	Know the fundamentals of the kinetic theory of gases, Maxwell-Boltzmann distribution law, equipartition of energies, mean free path of molecular collisions, viscosity, thermal conductivity, diffusion and Brownian motion
CO-3	Learn about the black body radiations, Stefan-Boltzmann's law, Rayleigh-Jean's law and Planck's law and their significances
CO-4	Learn the quantum statistical distributions, viz., the Bose-Einstein statistics and the Fermi-Dirac statistics
CO-5	In the laboratory course, the students are expected to: Measure of Planck's constant using black body radiation, determine Stefan's Constant, coefficient of thermal conductivity of a bad conductor and a good conductor, determine the temperature coefficient of resistance, study variation of thermo emf across two junctions of a thermocouple with temperature etc

## BOTANY

### Biodiversity (Microbes, Fungi, Algae and Archegoniates) (Theory)(BHGE1)

The course will empower the undergraduate students by helping them to:

CO1	Combination of Theoretical and Practical components will provide comprehensive information and insight into the fascinating world of Microbes and Plants.
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<b>CO2</b>	Investigate some examples of different types of environmental pollution and their impacts.
<b>CO3</b>	Describe existing and emerging technologies that are important in the area of environmental biotechnology.
<b>CO4</b>	Demonstrate an awareness of emerging concerns such as climate change, waste management or reductions in fossil fuels, and new technologies for addressing these.
<b>CO5</b>	Appreciate the scientific, ethical and/or social issues associated with certain applications of biotechnology for alleviating the environmental concerns.
<b>CO6</b>	Explain national and international legislations, policies and role of public participation in Environmental Protection
<b>CO7</b>	Students will have an insight on the causes and consequences of environmental pollution, pollutants. They can think about the prevent of degradation of environment and management of pollutants.

### **Plant Anatomy and Embryology (Theory)**

The course will empower the undergraduate students by helping them to:

<b>CO1</b>	Knowledge regarding anatomy equipped the students to identify different types of tissues and make them able to correlate their physiology in a better away.
<b>CO2</b>	This will also help them to understand how different plant tissue evolve and modify their structure and functions with respect to their environment.
<b>CO3</b>	Knowledge regarding embryology make them understand how reproduction play significant role in defining population structure, natural diversity and sustainability of ecosystem in a better way.

### **Environmental Biotechnology (Theory)**

The course will empower the undergraduate students by helping them to:

<b>CO1</b>	Explain the various global and regional environmental concerns due to natural causes and/or human activities.
<b>CO2</b>	Hands on Training will help students learn use of microscope, mounting, section-cutting and staining techniques for the study of plant materials.
<b>CO3</b>	Making Drawings in Practical Records will enhance understanding morphological and structural details and related functional aspects in diverse plant groups.
<b>CO4</b>	Use of Illustrations, Photographs, Charts, Permanent Slides, Museum and Herbarium Specimens along with ICT Methods will provide an interesting insight into the beautiful world of microbes and plants.

<b>CO5</b>	Scope of Biodiversity includes Medicinal field, Industry, Agriculture, Research and Study, Job Opportunities and Environmental Conservation. This paper is both informative and interesting and will enable students to learn about Biodiversity not only as a plant or nature lover, but also for higher academic pursuits, particularly in the field of Biological Sciences, Environment and Biodiversity Conservation.
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### **Economic Botany and Biotechnology (Theory)**

The course will empower the undergraduate students by helping them to:

<b>CO1</b>	To gain the knowledge on the economically important of plants, their life cycle, processing, plant part used, application of biotechnology for the production of plant resources and production of new varieties
<b>CO2</b>	Understanding of morphology, and processing and economic value of plant sources of cereals, legumes, spices, oil, rubber, timber and medicines

## **ZOOLOGY**

### **Insect vector and disease (Theory)**

The course will empower the undergraduate students by helping them to:

<b>CO1</b>	Upon completion of the course, the students will be able to: Identify different insects and classify them based on their morphology and behavior.
<b>CO2</b>	Describe the host-pathogen relationships and the role of the host reservoir on transmission of parasite
<b>CO3</b>	Explain various modes of transmission of parasite by insect vectors
<b>CO4</b>	Recognize various possible modern tools and methodologies for laboratory diagnosis, surveillance and treatment of diseases
<b>CO5</b>	Define various terms related to insect transmitted diseases such as vectorial capacity, mechanical and biological transmission, host specificity etc.
<b>CO6</b>	Identify the risk groups and characterize them on the basis of exposure risk
<b>CO7</b>	Explain control methods of insect vector diseases including spreading awareness on public health programs and mitigating insect borne diseases

<b>CO8</b>	Employ the use of advanced management strategies in disease control with respect to parasite evolution
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### **Human Physiology (Theory)**

The course will empower the undergraduate students by helping them to:

<b>CO1</b>	Know the principles of normal biological function in human body.
<b>CO2</b>	Outline basic human physiology and correlate with histological structures.
<b>CO3</b>	Understand how animals maintain an internal homeostatic state in response to changes in their external environment.

### **Environment and Public Health (Theory)**

The course will empower the undergraduate students by helping them to:

<b>CO1</b>	Get familiarized with various aspects of environmental risks and hazards.
<b>CO2</b>	Recognize the climate change due to human activities.
<b>CO3</b>	Be aware about the various impacts of environmental degradation on human health through case studies and how it can be prevented.
<b>CO4</b>	Learn about the nuclear and chemical disaster;s and their after effects through cases studies.
<b>CO5</b>	Know various waste management technologies and their utility.
<b>CO6</b>	Understand the diagnostic methods of various diseases and ways to prevent them.
<b>CO7</b>	Realize the importance of nature conservation for betterment of human race and all living beings.

### **Animal Cell Biotechnology (Theory)**

The course will empower the undergraduate students by helping them to:

<b>CO1</b>	Get a clear concept of the basic principles and applications of biotechnology.
<b>CO2</b>	Know the basic techniques used in genetic manipulation helping them continue with higher studies in this field.
<b>CO3</b>	Acquire knowledge of the basic principles, preparations and handling required for animal cell culture.
<b>CO4</b>	Understand principles underlying the design of fermenter and fermentation process and its immense use in the industry.
<b>CO5</b>	Design small experiments for successful implementation of the ideas and develop solutions to solve problems related to biotechnology keeping in mind safety factor for environment and society.
<b>CO6</b>	Apply knowledge and skills gained in the course to develop new diagnostic kits and to innovate new technologies further in their career.
<b>CO7</b>	Enhance their understanding of the various aspects and applications of biotechnology as well as the importance of bio-safety and ethical issues related to it.

### **COMMERCE (HONS)**

#### **GE – 1: Business Organisation and Management**

After completing the course, the student shall be able to:

<b>CO1</b>	Learn business activities to compete in competitive world.
<b>CO2</b>	Understand entrepreneurship from local to international perspective.
<b>CO3</b>	Evaluate the application of functional areas of business activity.
<b>CO4</b>	Analyze decision making and communication.
<b>CO5</b>	Evaluate the impact of legal, social, and economic environment on business.

#### **GE – 2: Entrepreneurship**

After completing the course, the student shall be able to:

<b>CO1</b>	Understand entrepreneurship as volition in context of India.
<b>CO2</b>	Gather knowledge and ideas on the existing support system for entrepreneurial orientation.
<b>CO3</b>	Understand enterprise formation process for gaining ideas as to creation of an enterprise for pursuing a career.
<b>CO4</b>	Understand requirements of post-enterprise creation for effective operation of the business.
<b>CO5</b>	Gain knowledge on available growth strategies for implementing effective suitable strategy for expansion and growth.

#### **GE – 3: Investing in Stock Markets**

After completing the course, the student shall be able to:

<b>CO1</b>	Learn the basics of investing in stock market, the investment environment as well as risk & return
<b>CO2</b>	Analyze Indian securities market including the derivatives market
<b>CO3</b>	Examine EIC framework and conduct fundamental analysis
<b>CO4</b>	Perform technical analysis
<b>CO5</b>	Invest in mutual funds market

#### **GE – 4: Insurance & Risk Management**

After completing the course, the student shall be able to:

<b>CO1</b>	Understand the Concept of Risk, it's types, sources and measurements.
<b>CO2</b>	Learn the Concepts and Principles of Insurance and its operations.
<b>CO3</b>	Develop insights into various types of Insurance
<b>CO4</b>	Examine the Legal aspects of Insurance contract and Actuaries
<b>CO5</b>	Familiarize with the Regulatory Framework of Insurance

## ENGLISH (HONS)

### **PAPER GE: THE INDIVIDUAL AND SOCIETY**

<b>CO-1</b>	Understanding concepts
<b>CO-2</b>	Expressing concepts through writing
<b>CO-3</b>	Demonstrating conceptual and textual understanding in tests and exams

### **PAPER GE: MEDIA AND COMMUNICATION SKILLS**

<b>CO-1</b>	Understanding concepts
<b>CO-2</b>	Expressing concepts through writing
<b>CO-3</b>	Demonstrating conceptual and textual understanding in tests and exams

### **PAPER GE: CONTEMPORARY INDIA: WOMEN AND EMPOWERMENT**

<b>CO-1</b>	Understanding concepts
<b>CO-2</b>	Expressing concepts through writing
<b>CO-3</b>	Demonstrating conceptual and textual understanding in tests and exams

### **PAPER GE : READINGS ON INDIAN DIVERSITIES AND LITERARY MOVEMENTS**

<b>CO-1</b>	Understanding concepts
<b>CO-2</b>	Expressing concepts through writing
<b>CO-3</b>	Demonstrating conceptual and textual understanding in tests and exams

## ECONOMICS (HONS)

### **GE – 1: Introductory Microeconomics**

<b>CO-1</b>	The course introduces the students to the first course in Economics from the perspective of individual decision making as consumers and producers.
<b>CO-2</b>	The students learn some basic principles of microeconomics, interactions of supply and demand and characteristics of perfect and imperfect markets.

### **GE – 2: Introductory Macroeconomics**

<b>CO-1</b>	This course will allow students to understand the basic functioning of the macroeconomy.
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### **GE – 3: Indian Economy I**

<b>CO-1</b>	This course will help students understand the key issues related to the Indian economy.
<b>CO-2</b>	It will broaden their horizons and enable them to analyze current economic policy thus improving their chances of getting employed, and be more effective, in positions of responsibility and decision making.

#### **GE – 4: Indian Economy II**

<b>CO-1</b>	Students will have capability to understand government policies and will enable informed participation in economic decision making, thus improving their employment prospects and career advancement.
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### **HISTORY (HONS)**

#### **Delhi through the Ages: The Making of its Early Modern History**

<b>CO1</b>	Analyse different kinds of sources -- archaeological, architectural and a variety of textual material..
<b>CO2</b>	Use these materials and correlate their sometimes discordant information
<b>CO3</b>	Analyse processes of urbanization and state formation.
<b>CO4</b>	Describe the difficulties in appropriating narratives of the state with the history of particular localities.

#### **The World After 1945**

<b>CO1</b>	Analyse the evolving polities, societies and cultures of an increasingly global world.
<b>CO2</b>	Analyse diverse social movements and cultural trends
<b>CO3</b>	Analyse processes of Decolonisation and politics during the Cold War era.
<b>CO4</b>	Draw inferences to explain the inter-connectedness of various facets of culture; sports, music, cinema, etc.

#### **Making of Post Colonial India**

<b>CO1</b>	Explain the complexities involved in the making of the Constitution.
<b>CO2</b>	Analyse the reasons behind the linguistic reorganisation of states.

CO3	Analyse foreign policy of India during formative stages of independent India.
CO4	.Draw inferences to explain the functioning of different political parties.
CO5	Explain the character of emergency and its consequences.. Discern the nuances of Indian judicial system.

### **Religion and Religiosity**

CO1	Describe the basic chronological, spatial and substantive contours of each of the religious traditions as well as certain intellectual currents that questioned them.
CO2	Analyse and articulate the long-term changes that each religious tradition undergoes in a dynamic relationship with its own past, with non-religious aspects of life, and with other religious traditions.
CO3	Identify and describe the formation of religious boundaries, identities and the scope for the liminal spaces in between.
CO4	Appreciate, examine and relate to the debates on the ways in which modern Indian state and its constitution must deal with the issue of plurality of religious beliefs and practices.

## **POLITICAL SCIENCE (HONS)**

### **GEI: - Nationalism in India**

On successful completion of the course, students would be able to:

CO-1	Gain an understanding of the different theoretical perspectives on the emergence and development of nationalism in India
CO-2	Demonstrate knowledge of the historical trajectory of the development of the nationalist movement in India, with specific focus on its different phases
CO-3	Understand the contribution of various social movements in the anti-colonial struggle
CO-4	Demonstrate awareness of the history of partition and the moment of independence that followed

### **GE II: Women, Power and Politics**

After completing this course the students will be able to: Understand the history of women's movement and why these movements emerged, and hence would be able to connect theory and practice.

<b>CO-1</b>	Understand the concept of patriarchy, feminism, family, community and state
<b>CO-2</b>	Understand the history of women's movement and why these movements emerged, and hence would be able to connect theory and practice.

### **GEIII: Politics of Globalization**

<b>CO-1</b>	The students will learn about the nature, significance and contemporary debates around globalization.
<b>CO-2</b>	The study of various approaches and concepts of globalization and the role of international economic organizations will augment students' knowledge on international political economy.
<b>CO-3</b>	The course will provide an insight into the alternative understanding of globalization and various critical aspects related to it.
<b>CO-4</b>	The paper will equip students with a comprehensive knowledge of the impact of globalization on developing countries in the context of contemporary international issues like civil society, social movements and human migration.

### **GE IV: Understanding Ambedkar**

<b>CO-1</b>	The course is designed to provide students the original writings and ideas of Ambedkar on diverse issues beyond caste and equip them to critically engage with the ideas, interpretations.
<b>CO-2</b>	By engaging with the original sources as well as secondary writings on Ambedkar's ideas that cover, caste, class, gender, religion, state, democracy and constitution the students will be able to understand a thinker in the context and contemporaneity.
<b>CO-3</b>	At the end of the course, students shall be equipped with the method of understanding the ideas, philosophy and relevance of a particular thinker.
<b>CO-4</b>	Students shall also be able to reflect on the method of the thinker's engagement with the then context, issues and concepts
<b>CO-5</b>	Finally the students shall be equipped in understanding the conceptual and philosophical diversity, situatedness and significance of Ambedkar beyond his contribution in the sphere of social justice and drafting the Indian constitution.
<b>CO-6</b>	The course thus provides an opportunity to the students to understand Ambedkar for his several important contributions in the field of religion, state, democracy, gender, economy and history

**BA(HONS) SANSKRIT**

## GE-1 Basic Principles of Indian Medicine System (Ayurveda)

CO -1	The history of Āyurveda through original sources of ancient medicine system enshrined in Sanskrit texts like Charaka Saṁhitā, Śūsruta Saṁhitā, Aṣṭāṅga Hridaya etc. and they will also get the basic knowledge of eight departments of Āyurveda.
CO -2	Second section of this paper is related to ancient physiology. In this section students will get acquainted with the basic concept of Trigūṇa, Pancamahābhūtas , Tridoṣas, Saptadhātus, Trayodosāgni, Trimalas, SvasthaVṛtta etc. which will help students to develop Āyurvedic understanding of lifestyle and concepts of preventive medicine. Āyurveda prescribes different food habits in different seasons. After reading this section students will be able to understand seasonal regimen & social conduct and its effect on health. It will develop their understanding of Health and Disease as explained in Āyurveda, and the way of diagnosing the illness.
CO -3	Third section of this paper is related to the Dietetics, Nutrition and Treatments in Āyurveda. Students will get to know the Āyurvedic point of view on nutrition and metabolism, Classification of Āhāra (compatible foods) according to Āyurveda and Viruddhāhāra (incompatible diet) & role of diet. After reading this section students will get the basic knowledge of Āyurvedic treatments, their method and classification of treatments, like Pancakarma, Therapeutic vomiting (Vamana), Purgation Therapy (Virechana), Enema (Basti), Nasal Administration – Nāśya, Bloodletting (Raktamokṣaṇa) etc.
CO -4	Last section of the paper is related to medicinal plants. Students will get equipped with the knowledge of some extremely important plants which are available in their surroundings like Tulsī, Haridrā, Ghritakumārī, Brāhmī, Āmalā, Aśwagandhā, Neema Plant etc. and will be able to use them in necessity.

## GE-2 Fundamentals of Indian Philosophy

CO -1	Indian Philosophy teaches critical thinking, close reading, clear writing, and logical analysis.
CO -2	It develops the tools of logic and reason to analyze the ways in which the individual experiences the Universe.
CO -3	It guides the student to understand the language we use to describe the world, and our place within it. Different areas of philosophy are distinguished by the questions they ask.

<b>CO -4</b>	The most important reason to study philosophy is that it is of enormous and enduring interest.
<b>CO -5</b>	Philosophy is important, but it is also enormously enjoyable in which students are provided with the tools and the opportunity to develop and express their own philosophical views.

### **GE-3 Individual, Family and Community in Indian Social Thought**

<b>CO -1</b>	Students will learn about important ethical and philosophical issues concerning relations between the individual and society.
<b>CO -2</b>	They will learn about the metaphysical background in which ethical solutions are offered. It will also expose them to controversial social issues and allow them to develop the sensitivity required to handle social tensions.
<b>CO -3</b>	This course will also help learners to develop a positive approach towards nature.

### **GE-4 Nationalism and Indian Literature**

<b>CO -1</b>	After completing this course, students will realize the importance of Nation in their upbringing.
<b>CO -2</b>	They will have admiration for their Nation and will like to know more and more about the National heritage.
<b>CO -3</b>	Socio-Religious Nationalist thoughts of our seers, freedom fighters, and modern thinkers will give them a wider vision to understand Nationalism.
<b>CO -4</b>	The study of important and famous poems of Sanskrit, Hindi, and Urdu poets will create new interest and social harmony in students.

## **HINDI (HONS)**

### **जेनेरिक ऐच्छिक पाठ्यक्रम (GE)-1- हिंदी सिनेमा और उसका अध्ययन (BAHHGEC02)**

1	हिन्दी सिनेमा की जानकारी प्राप्त होगी।
2	सिनेमा के निर्माण, प्रसारण और उपभोग से संबंधित आलोचनात्मक चिंतन की समझ विकसित होगी।
3	हिन्दी सिनेमा, समाज और संस्कृति की समझ विकसित होगी।

4	सिनेमा निर्माण, प्रसार और कैमरे की भूमिका आदि की व्यावहारिक समझ विकसित होगी।
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#### जेनेरिक ऐच्छिक पाठ्यक्रम (GE)-2- पटकथा तथा संवाद लेखन (BAHHGEC04)

1	विद्यार्थीको पटकथा लेखन की तकनीक को समझेंगे।
2	विद्यार्थियों में साहित्यिक विधाओं का पटकथा में रूपांतरण तथा संवाद लेखन की समझ विकसित होगी।
3	पटकथा क्या है समझेंगे।
4	पटकथा और संवाद लेखन में दक्षता हासिल करेंगे।
5	कहानी, उपन्यास आदि साहित्यिक विधाओं को पटकथा में रूपान्तरित करना सीखेंगे।
6	भविष्य में पटकथा लेखन को आजीविका का माध्यम बता सकेंगे।

#### जेनेरिक ऐच्छिक पाठ्यक्रम (GE)-3- भाषा और समाज (BAHHGEC06)

1	भाषा और समाज के अंतरसंबंध की जानकारी प्राप्त होगी।
2	समाज में भाषा के व्यवहार की जानकारी प्राप्त होगी।
3	सफल सम्प्रेषण कर सकेंगे।
4	समाजभाषाविज्ञान का अध्ययन।
5	सम्प्रेषण की सामाजिक समझ, भाषा के समाजशास्त्र का अध्ययन।

#### जेनेरिक ऐच्छिक पाठ्यक्रम (GE)-4- हिंदी का वैश्विक परिदृश्य (BAHHGEC07)

1	हिंदी की अंतर्राष्ट्रीय स्थिति का परिचय
2	विकास के नए क्षेत्र उपलब्धियां और चुनौतियाँ

### **BA (PROG) ENGLISH**

#### **PAPER GE: CONTEMPORARY INDIA: WOMEN AND EMPOWERMENT**

<b>CO-1</b>	Understanding concepts
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<b>CO-2</b>	Expressing concepts through writing
<b>CO-3</b>	Demonstrating conceptual and textual understanding in tests and exams

**PAPER GE: MEDIA AND COMMUNICATION SKILLS**

<b>CO-1</b>	Understanding concepts
<b>CO-2</b>	Expressing concepts through writing
<b>CO-3</b>	Demonstrating conceptual and textual understanding in tests and exams

**BA (PROG) HINDI**

**जेनेरिक ऐच्छिक (GE)-1- जनपदीय साहित्य (BAPHGE02)**

1	लोक संस्कृति की समझ विकसित होगी।
2	जनपदीय जीवन शैली और साहित्य के अध्ययन से मुख्यधारा से जुड़ेंगे।
3	पर्यटन, साहित्य और बोलियों की जानकारी प्राप्त होगी।
4	लोकसाहित्य के अध्ययन विश्लेषण की जानकारी प्राप्त होगी।

**जेनेरिक ऐच्छिक (GE)-2- हिंदी सिनेमा और उसका अध्ययन (BAPHGE04)**

1	सिनेमा की व्यावहारिक और आलोचनात्मक समझ विकसित होगी।
2	सिनेमा के विकास के माध्यम से भारत के मनोरंजन जगत में आ रहे बदलाव को समझ सकेंगे।
3	कुछ प्रमुख फिल्मों के माध्यम से सिनेमा में आ रहे बदलाव को समझना।

**BA(PROG) COMPUTER SCIENCE**

**GE – 1: IT Fundamentals**

<b>CO-1</b>	Develop a vocabulary of key terms related to the computer and to software program menus, identify the components of a personal computer system and use the interface deftly.
<b>CO-2</b>	Organize files and documents on storage devices.
<b>CO-3</b>	Compose, format and edit a word document.
<b>CO-4</b>	Use spreadsheet for storing data and performing preliminary analysis.
<b>CO-5</b>	Acquire fundamental knowledge of networking and distinguish between different types of networks.
<b>CO-6</b>	Acquire knowledge of internet applications and use them.

### **GE – 2: Multimedia and Web Design**

<b>CO-1</b>	Understand fundamental Web design principles and technologies.
<b>CO-2</b>	Understand the detailed design plan required to create a successful Web site that considers audience needs, accessibility features, and various technical issues.
<b>CO-3</b>	Understand the coverage of ownership, permissions, and copyright issues.
<b>CO-4</b>	Incorporate text, images, animation, sound, and video into Web pages.
<b>CO-5</b>	Create a website with popular multimedia authoring tools, such as Macromedia Flash.

## **BA (PROG) HISTORY**

### **GE-III: Culture and Everyday Life in India**

On successful completion of this course, students will be able to:

<b>CO1</b>	Identify the complex nature of relationship between the everyday life and society in urban India.
<b>CO2</b>	Discuss human response to specific historical circumstance.
<b>CO3</b>	Describe the role of Tea, Coffee and betel leave chewing in everyday cultural life and interactions.
<b>CO4</b>	Delineate human interactions with each other in a shrine complex or on the streets.
<b>CO5</b>	Analyze the importance of new avenues of interaction such as Metros, malls or pilgrim centres.
<b>CO6</b>	Discuss the leisurely activities of social groups and resultant spread of ideas.

### **GE-VI: Delhi through the Ages**

On successful completion of this course, students will be able to:

<b>CO1</b>	Analyze the historical contexts of tangible and intangible heritage of Delhi.
<b>CO2</b>	Discuss the Ecology of Delhi and outline changes in it through the ages.
<b>CO3</b>	Describe the archaeological cultures that flourished in and around Delhi.
<b>CO4</b>	Analyze the processes leading to the establishment of urban settlements of Delhi.
<b>CO5</b>	Outline the importance of Shahjahanabad and its importance in the development of the great imperial city of Delhi.
<b>CO6</b>	Trace the role of Delhi College in the political and literary culture of Delhi.
<b>CO7</b>	Discuss various aspects of the Revolt of 1857 and its consequences for the future development of Delhi.
<b>CO8</b>	Delineate the processes leading to the making of the New Imperial Capital under the British.
<b>CO9</b>	Analyze the impact of Partition on the structure and settlement pattern of Delhi.
<b>CO10</b>	Describe Delhi's importance as an economic and cultural center.

### **BA(PORG) POL. SCI.**

#### **PAPER I: Understanding Gandhi**

<b>CO1</b>	This course will help students to understand the fundamental concept of Gandhi philosophy through his words .
<b>CO2</b>	it will help them understand these concepts in a critical and analytical manner.

#### **PAPER II: Human Rights Gender and Environment**

<b>CO-1</b>	The study of the course will equip the students with theoretical and conceptual understanding of caste, gender, ethnicity and class as distinct categories and their interconnections
<b>CO-2</b>	The course will further analyze socio-economic and political problems of marginalized groups in society such as women, Dalits, minorities and adivasis and repercussions of globalization on them
<b>CO-3</b>	The paper will enhance understanding on the meaning of human rights, universalization of human rights and human rights institutions in India.
<b>CO-4</b>	The course will equip students with a conceptual understanding of gender and patriarchy, and issues of women's political participation and rights in India
<b>CO-5</b>	The paper will enhance knowledge on the concept of sustainable development, and national and international programmes and policies on the environment.

## **BA(PROG) ECONOMICS**

### **GE-1: Principles of Microeconomics**

<b>CO-1</b>	The students learn some basic principles of microeconomics and interactions of supply and demand, characteristics of perfect competition, efficiency and welfare.
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### **GE-2: Principles of Macroeconomics**

<b>CO-1</b>	This course is useful for understanding various real economic issues and evaluating policy outcomes.
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## **BA(PROG) SANSKRIT**

### **GE-1: Nationalistic Thoughts in Sanskrit Literature**

<b>CO</b>	This course will enable the students to know about the concepts and basic features of Indian Nationalism i.e. Meaning, Definitions and Elements of Indian Nation 'Rāṣṭra', Indian nationality, National symbols etc. and make realize about the importance of Nation in their upbringing. They will have admiration for the nation and like to know more and more about the National Ethos. After the completion of this course, the learner will be exposed to the contribution of Sanskrit Literature to nationalistic thoughts in wider perspective. This course will make the student acquainting with the broad spectrum of Indian nationalism trends as depicted in the ancient classical and modern Sanskrit literature.
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### **GE-2: Political Thoughts in Sanskrit Literature**

<b>CO</b>	This course will enable the students to appreciate the fundamental concepts Indian political thoughts discussed in ancient Sanskrit texts such as Vedic Samhitas, Mahābhārata, Purāṇas, Kauṭilya's Arthaśāstra and other works known as Nītiśāstra. It is supposed to create an awareness of the various aspects of Indian political thoughts and institutions of polity and at the same time make the people politically conscious from time to time.
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## **B.COM (PROG)**

### **GE – 1: BC 5.4 (a) - Human Resource management**

<b>CO-1</b>	Understand different tools used in forecasting and planning human resource needs.
<b>CO-2</b>	Demonstrate the ability to prepare strategies for acquisition of human resources.
<b>CO-3</b>	Understand the administrative complexities of providing a full array of benefits to employees and the ways and means of delivering these benefits.

<b>CO-4</b>	Appreciate the varied initiatives undertaken to maintain human resources.
<b>CO-5</b>	Understand modern HRM to meet challenges of changing business environments.

**GE – 2: BC 6.4 (a) - Entrepreneurship Development**

<b>CO-1</b>	Understand entrepreneurship as volition in the context of India.
<b>CO-2</b>	Gather knowledge and ideas on the existing support system for entrepreneurial orientation.
<b>CO-3</b>	Understand the enterprise formation process for gaining ideas as to creation of an enterprise for pursuing a career.
<b>CO-4</b>	Understanding of the requirement of post-enterprise creation for effective operation of the business.
<b>CO-5</b>	Gain knowledge on available growth strategies for implementing effective suitable strategies for expansion and growth.