Class- XI (Science)
Syllabus for the Session 2025-26

English Core

Book Prescribed: NCERT			
	Months	**Content**	**Learning Outcomes**
TERM-I	**April**	Chapter No.1 : The Portrait of a Lady (Prose), Hornbill	**Students will be able to:** **Remember:** The key events , character sketch of grandmother, moral values, and message of the chapter **Understand:** The bonding between grandmother and Khushwant Singh, grandmother's love for animals **Apply:** Grand mothers' values, love for animals and adaptability in real life **Analyze:** The difference in village school education and city school education
		A Photograph (poem), Hornbill	**Students will be able to:** **Remember:** The theme, message and personal experiences of the poet **Understand:** The significance of photograph, poetic devices and the pain of losing mother **Apply:** The poem's theme in real life situation and valuing every moment **Analyze:** The events of mother's past and poet's past and how they create a beautiful bonding between mother and a daughter
	May & June	Note Making	**Students will be able to:** **Remember:** The format of Note Making and key character of note making **Understand:** The importance of note-making in learning and retention **Apply:** Note making technique in various subjects for better understanding **Analyze:** The effectiveness of note making
		Chapter No.1: The Summer of the Beautiful White Horse (prose) Snapshots	**Students will be able to:** **Remember:** The story events, characteristics of Mourad and Aram and setting of the chapter **Understand:** The theme of honesty, family, morality through characters **Apply:** The decision making , overcoming dilemma and chosing the right path qualities in real life **Analyze:** The cultural values of the tribe

		Chapter No. 2: We aren't Afraid to Die... if We can be together (prose) Hornbill	**Students will be able to:** **Remember:** The message , character traits of all the characters and the events of the voyage **Understand:** The importance of family, courage and togetherness **Apply:** The moral values gained from the chapter in real life to create better family bonding **Analyze:** The days of January 3rd to January 5th and analyse the behaviour and support of every character
		Classified Advertisement , Speech Writing	**Students will be able to:** **Remember:** The format of advertisement and speech writing **Understand:** The purpose and structure of a classified advertisement and coherense in speech writing **Apply:** The writing skills in real life situation **Analyze:** The importance of correct format and content
	July	Chapter No. :2 The Address (prose) Snapshots	**Students will be able to:** **Remember:** The events, setting, and characteristics of the main character **Understand:** The effect of war, significance of address in character's life **Apply:** The concept of attachment-detachment, importance of memories over materialism in real life to move ahead **Analyze:** The emotional journey and character development with the course of event
		Integrated Grammar	**Students will be able to:** **Remember:** The key rules to use subject verb and tenses **Understand:** The importance of grammar in using right syntax **Apply:** Correct usage of language in real life situation **Analyze:** The importance of correct use of language
		The Laburnum Top (poem), Hornbill	**Students will be able to:** **Remember**: The theme, message and personal experiences of the poet **Understand**: The significance of Laburnum tree and goldfinch's behaviour; poetic devices **Apply**: The poem's theme in real life situation and work silently and enjoy the activity in phase in life **Analyze**: The poet's use of language and structure
	August	**PERIODIC TEST-I**	
		Chapter No. 3: Discovering Tut (prose) Hornbill	**Students will be able to:** **Remember:** The key facts about King Tut's life and tomb **Understand:** The possible reason of his death and about his family tree **Apply:** The understanding of ancient Egyptian history to contextualize current events **Analyze:** The impact of King Tut's tomb discovery on the understanding of ancient Egyptian history
	September	**REVISION & TERM-I EXAMINATION**	
TERM-II		Chapter No. :3 Mother's Day (Prose, Play) Snapshots	**Students will be able to:** **Remember**: The events, setting, and characteristics of the main character **Understand**: The effect of significant change in mother's behaviour **Apply:** The concept of self-wortho **Analyze**: The emotional journey of a mother with the course of time

	October & November	Chapter no:4 The Adventure (Prose) Hornbill	**Students will be able to:** **Remember**: The concept of parallel worlds **Understand**: The importance of a historical event **Apply**: The understanding of reality and science and fiction in real life **Analyze**: The impact of small incidents on history
		Chapter No. :4 Birth (Prose) Snapshots	**Students will be able to:** **Remember:** The events, setting, and characteristics of the main character **Understand:** The struggle of a mother and unborn child **Apply:** The concept of professional responsibilities and ethical complexities **Analyze**: The triumph of perseverance and compassion over defeat
		The Voice of the Rain (Poem) Hornbill	**Students will be able to:** **Remember:** The theme, message and personal experiences of the poet **Understand**: The significance of Rain **Apply**: The poem's theme in real life situation and work silently and enjoy the activity in phase in life **Analyze:** The poet's use of language and structure
		Poster Making & Debate Writing	**Students will be able to:** **Remember:** The format of Poster making and Debate writing **Understand:** The purpose and structure of Poster making and debate writing **Apply:** The writing skills in real life situations **Analyze:** The importance of correct format and content
		Childhood (Poem) Hornbill	**Students will be able to:** **Remember:** The theme, message and personal experiences of the poet's childhood **Understand:** The significance of innocence of childhood and poetic devices **Apply:** The poem's theme in real life situations **Analyze:** The poet's use of language and structure
		Father to Son (Poem) Hornbill	**Students will be able to:** **Remember:** The universal parent -child conflict **Understand:** The speaker's emotions and perspective on their relationship with their son **Apply:** The poem's themes to personal experience or observations about family relationships **Analyze:** The poem's use of language, imagery, and symbolism to convey the speaker's emotions
	December	**PERIODIC TEST-II**	
		Chapter 5: Silk Road (Prose-Travelogue) Hornbill	Students will be able to: **Remembe**r: The theme of adventure exploration **Understand**: The cultural encounter of the Tibetan lifestyle and beliefs **Apply**: The various facts related to Mount. Kailash in real life **Analyze**: The writer's approach to man vs. Nature
		Chapter 5 : The Tale of the Melon City (Prose) Snapshots	**Students will be able to**: **Remember:** The story's plot, characters and setting **Understand:** The story's satire on bureaucracy and societal norms **Apply:** The story's themes to real-life situations or observations about bureaucracy and conformity

			Analyze: The author's commentary on human nature, power, and societal expectations
	January	**Revision of Final Examination**	
	February & March	**Annual Practical and Annual Examination**	

Physics

Book Prescribed: NCERT			
	Months	**Content**	**Learning Outcomes**
TERM-I	**April**	Chapter 1: Units and Measurements	**Students will be able to:** **Remember** : Fundamental and derived units, SI system of units **Understand**: The needs for measurement and various unit systems (SI, CGS, FPS) **Apply**: Physical quantities and list the seven base SI units **Analyze**: Rules of significant figures and calculate errors and interpret measurement uncertainty
	May & June	Chapter 2: Motion in a Straight Line	**Students will be able to:** **Remember:** Key terms- displacement, velocity, acceleration, distance, and speed ; Recall equations of motion **Understand:** Frame of reference and describe one-dimensional motion using position-time and velocity-time graphs. **Apply:** Concept of average speed, average velocity, and instantaneous velocity to solve numerical problems **Analyze** : Graphical representation of motion.
	July	Chapter 3: Motion in a Plane	**Students will be able to:** **Remember** : Key terms- projectile motion, trajectory, range, and maximum height **Understand** : Scalar and vector quantities with examples and identify vector notations **Apply:** Vector operations and resolve vectors into components using graphical and analytical methods **Analyze**: Equations of motion for projectile and circular motion analysis.
		Chapter 4: Laws of Motion	**Students will be able to:** **Remember** : Newton's three laws of motion and key terms - inertia, momentum, force, and impulse **Understanding**: Newton's laws of motion and related concepts like force, inertia, and momentum with examples **Apply**: Laws of motion to real-life scenarios such as vehicles on curved roads **Analyze**: Types of friction and uniform circular motion in terms of centripetal force
	PERIODIC TEST-I		

	August	Chapter 5: Work, Energy and Power	**Students will be able to:** **Remember** : Definition of work, energy and power and formulas of work, kinetic energy and potential energy **Understand**: Work and energy concept; differentiate conservative and non-conservative forces. **Apply:** Work-energy theorem and calculate energy in systems including springs and circular motion. **Analyze**: Concept of power in mechanical systems using real-life contexts.
	September	**REVISION & TERM-I EXAMINATION**	
TERM-II	**October & November**	Chapter 6: System of Particles and Rotational Motion	**Students will be able to:** **Remember**: Concept of torque, angular momentum, and moment of inertia **Understand:** Conservation of momentum to translational and rotational systems **Apply:** Equilibrium in rigid bodies to compare linear and rotational motion. **Analyze:** Concept of Moment of inertia and radius of gyration to solve problems in rotational dynamics
		Chapter 7: Gravitation	**Students will be able to:** **Remember:** Kepler's laws of planetary motion, universal law of gravitation **Understand:** Acceleration due to gravity and its variation with altitude and depth **Apply:** Gravitational potential energy and gravitational potential in real world situations**.** **Analyze:** Concept of escape speed, orbital velocity and energy of an orbiting satellite to geostationary and polar satellite.
		Chapter–8: Mechanical Properties of Solids	**Students will be able to:** **Remember**: Definition of elasticity, stress and strain, Poisson's ratio and elastic energy. **Understand:** Hooke's law , elastic constants like Young's, bulk, and shear modulus **Apply**: The gained knowledge of elasticity in real-life applications. **Analyze**: Stress-strain curves to identify elastic and plastic behavior in materials
		Chapter 9: Mechanical Properties of Fluid	**Students will be able to:** **Remember:** Fluid pressure, surface tension, capillarity, and types of fluid flow **Understand:** Pascal's law, Bernoulli's theorem, and Stokes' law in practical and numerical contexts **Apply:** The gained knowledge to solve problems on excess pressure, terminal velocity, and fluid dynamics in real-life situations. **Analyze**: Dependence of depth, density, and viscosity and its effect on fluid behaviour and motion
		Chapter 10: Thermal Properties of Matter	**Students will be able to:** **Remember**: Concept of heat and temperature ,thermal expansion and modes of heat transfer **Understand:** The concept of blackbody radiation, Wien's displacement law and Stefan's law with relevance **Apply:** Principles of calorimetry, specific and latent heat to calculate heat exchange **Analyze:** Phase changes, anomalous expansion of water and thermal conductivity in materials
	December	**PERIODIC TEST-II**	
		Chapter 11: Thermodynamics	**Students will be able to**: **Remember:** Thermal equilibrium, internal energy and thermodynamic variables, statement of zeroth and second laws **Understand**: The mechanisms of heat transfer

			Apply: First law of thermodynamics and ideal gas equation to physical processes **Analyze:** Different thermodynamic processes and interpret them using P–V diagrams
		Chapter 12: Kinetic Theory	**Students will be able to:** **Remember:** Key concepts in kinetic theory, properties of gases and gas laws **Understand:** Derivation of the ideal gas equation and specific heat capacities **Apply:** The gained knowledge to calculate work done during compression, rms speed, and correlations between temperature and kinetic energy **Analyze:** Molecular collisions, mean free path, and the law of equipartition of energy in gas systems
		Chapter13: Oscillations	**Students will be able to:** **Remember:** Periodic motion, time period, frequency, and simple harmonic motion (S.H.M) **Understand:** The concept of S.H.M. and the energy transformations in oscillations **Apply:** The gained knowledge to derive equations of motion for S.H.M **Analyze:** Uniform circular motion and the concept of phase difference
		Chapter14: Waves	**Students will be able to:** **Remember**: Different types of waves and wave properties **Understand** : Transverse and longitudinal waves ,standing waves and beats **Apply:** The gained knowledge to derive wave speed equation and equation for the displacement of progressive waves **Analyze:** Wave interactions using principle of superposition and standing waves in strings and pipes
	January	**Revision of Final Examination**	
	February & March	**Annual Practical and Annual Examination**	

Chemistry

Book Prescribed: NCERT			
	Months	**Content**	**Learning Outcomes**
Term -I	**April**	Chapter No. 1: Some Basic Concepts of Chemistry	**Students will be able to:** **Remember:** The concept of mole, molar mass, and significant figures **Understand:** The laws of chemical combination and mole concept **Apply:** The concept in solving numerical problems on mass, mole, and volume **Analyze:** The limiting reagent and percentage yield in reactions
	May &	Chapter No. 2: Structure of Atom	**Students will be able to:** **Remember:** The atomic models and subatomic particles **Understand**: The Bohr's model and quantum numbers **Apply**: The knowledge to write electronic configurations using rules **Analyze**: The different atomic models and their limitations

	June	Chapter No. 3: Classification of Elements and Periodicity in Properties	**Students will be able to:** **Remember:** The modern periodic law and periodic table structure **Understand:** The periodic trends in properties **Apply:** The knowledge to predict element properties based on position **Analyze**: The trends and justify periodic behaviour
	June	**SUMMER BREAK**	
	July	Chapter No. 4 : Chemical Bonding and Molecular Structure	**Students will be able to:** **Remember:** The types of bonds and octet rule **Understand:** The VSEPR theory and hybridization **Apply:** Lewis structures and predict molecular shape **Analyze:** The bond types and explain molecular geometry
	August	**PERIODIC TEST-I**	
	August	Chapter No. 5 : Chemical Thermodynamics	**Students will be able to:** **Remember:** The key thermodynamic terms and define system, surroundings **Understand:** The laws of thermodynamics and enthalpy changes **Apply:** The acquired knowledge to solve problems on heat, work, and internal energy. **Analyze**: The various thermodynamic processes and differentiate between them
	September	**REVISION & TERM-I EXAMINATION**	
Term –II	**October & November**	Chapter No. : 6 Equilibrium	**Students will be able to:** **Remember:** Definition of dynamic equilibrium and related terms **Understand**: Le Chatelier's Principle and equilibrium constants **Apply:** The gained knowledge to calculate Kc and Kp; predict shift in equilibrium **Analyze:** Physical and chemical equilibria with examples.
		Chapter No. : 7 Redox Reactions	**Students will be able to:** **Remember:** Definition of oxidation, reduction, and redox reactions **Understand:** Oxidation number and redox concepts **Apply**: The gained knowledge to identify redox changes and balance redox equations **Analyze:** Redox reactions in different chemical systems
		Chapter No. : 8 - Organic Chemistry: Basic Principles and Techniques	**Students will be able to:** **Remember:** Basic terms like homologous series, functional groups **Understand:** IUPAC naming, isomerism, and reaction mechanisms **Apply:** The gained knowledge to write structural formulas and name organic compounds **Analyze:** The difference between different types of isomerism and reactions
	December	**PERIODIC TEST-II**	
		Chapter No. : 9 Hydrocarbons	**Students will be able to:** **Remember:** Different types of hydrocarbons – alkanes, alkenes, alkynes, and aromatics **Understand:** Physical properties and general reactions **Apply:** The gained knowledge to write and balance reactions of

			hydrocarbons **Analyze:** The structures, reactivity, and uses of different hydrocarbons
	January	**Revision of Final Examination**	
	February & March	**Annual Practical and Annual Examination**	

Biology

Books prescribed- NCE`RT			
	Months	**Content**	**Learning Outcomes**
Term -I	**April**	Chapter No. 1: The Living World	**Students will be able to:** **Remember:** The process of identification, naming and classification of organisms **Understand:** The concept of taxonomy, systematics, classification, universal rules of Bionomial nomenclature and taxonomical hierachy **Apply:** The gained knowledge to classify organisms based on their characteristics **Analyze:**The importance of classification in understanding evolutionary Relationships
		Chapter No. 2 : Biological Classification	**Students will be able to:** **Remember:** The differences between prokaryotic and eukaryotic cells **Understand:** The classification of each kingdom -Monera, Protista, Fungi, Animalia, Plantae and difference between Virus, viroids, prions and lichens **Apply:** The gained knowledge to classify organisms based on their characteristics **Analyze:** The characteristics of the kingdoms and evaluate the role of classification in conservation biology and research.
	May	Chapter No.3: Plant kingdom	**Students will be able to:** **Remember:** The characteristics of different plant groups (algae, bryophytes, pteridophytes, gymnosperms, angiosperms) **Understand:** The classification of plant kingdom into algae, pteridophytes, bryophytes, gymnosperms and angiosperms on the basis of their characteristics and the process of asexual, sexual reproduction in the above groups **Apply:** The gained knowledge to identify the specimens, slides of plants and classify them based on their characteristics **Analyze:** The adaptations of plants to different environments and evaluate the role of plants in ecosystems

	& June	Chapter No.4 : Animal kingdom	**Students will be able to:** **Remember:** The characteristics of different animals of different phyllum and classes **Understand:** The classification of different groups of animals of Animal kingdom into their respective phyllums and classes on the basis of their characteristics and peculiar features **Apply:** The gained knowledge to identfy the animals and classify them based on their characteristics and understand their ecological and economic importance **Analyze:** The adaptations of animals to different environments and evaluate their role in ecosystems.
		Chapter No.5: Morphology of Flowering plants	**Students will be able to:** **Remember:** The terms related to morphology of flowering plants and the different parts of a flower and their functions. **Understand:** The different types of venation, inflorescences, phyllotaxy, aestivation, placentation in flowering plants and the floral formula of plants**.** **Apply:**The gained knowledge to identify and classify plants based on their morphological characteristics and write the semi-technical description of a flower. **Analyze:** The adaptations of plants to different environments based on their morphological features
	June	**SUMMER BREAK**	
	July	Chapter No.6: Anatomy of Flowering Plants	**Students will be able to:** **Remember:** The difference between dicot and monocots. **Understand:** The structure and function of vascular tissues (xylem and phloem) , detailed anatomical structure of T.S. Dicot and Monocot roots, stem and leaves. **Apply:** The gained knowledge in identifying and preparing temporary transverse sections of monocot, dicot roots and stems. **Analyze:** The difference between dicots and monocots based on their the anatomy.
		Chapter No.7 : Structural Organisation in Animals	**Students will be able to:** **Remember:** The terms related to morphology and anatomy of frogs. **Understand:** Explain the morphology and anatomy of frogs- Digestive system, respiratory system, circulatory system, excretory and reproductive system of frog. **Apply:** The knowledge of frog anatomy to understand animal physiology and ecology. **Analyze:** The adaptations of frogs to different environments based on their anatomical features and evaluate the importance of studying frog anatomy in understanding animal biology.

		Chapter No. 8: Cell: The Unit of Life	**Students will be able to:** **Remember:** The differences between prokaryotic- eukaryotic cells and plant cell- animal cells **Understand:** The structure and function of cell wall, cell membranes and organelles, structure and types of chromosomes on the basis of position of centromere. **Apply:** The knowledge of cell biology to understand cellular processes and functions.. **Analyze**: The relationships between cell structure and function and evaluate the importance of cell biology in understanding life processes and disease mechanisms.
	August	**PERIODIC TEST I**	
		Chapter No .9: Biomolecules	**Students will be able to:** **Remember:** The function of biomolecules (proteins, enzymes, lipids, carbohydrates). **Understand:** The structure and function of proteins, enzymes, and classification of enzymes, effects of temperature, pH, substrate on the role of enzymes ;Co-factors and its types. **Apply:** The gained knowledge to identify and describe the different types of biomolecules and their structures and use biomolecule structure and function to understand disease mechanisms. **Analyze:** The relationships between biomolecule structure and function and evaluate the importance of biomolecules in understanding life processes and disease mechanisms.
		Chapter No.10: Cell cycle and Cell divisions	**Students will be able to:** **Remember:** The cell cycle and the difference between mitosis and meiosis **Understand:** All the stages of mitosis and meiosis cell cycle and the significance of cell division in living organisms **Apply:** The gained knowledge to identify the different stages of the meiosis and to prepare slides of onion root tip showing different phases of mitosis **Analyze:** The difference between mitosis and meiosis and evaluate the role of cell division in development, growth, and disease.
	September	**REVISION & TERM-I EXAMINATION**	
Term –II		Chapter No: 11 Photosynthesis in higher plants	**Students will be able to:** **Remember**:The process of photosynthesis, its importance and the light-dependent and light-independent reactions **Understand:** The mechanisms of cyclic and non-cyclic photophosphorylation, the C3 and C4 pathways of carbon fixation, process of photorespiration and the different factors affecting photosynthesis **Apply:** The knowledge of photosynthesis to understand plant growth and productivity and use photosynthesis to understand ecological and environmental processes **Analyze:** The advantages and disadvantages of different photosynthetic pathways and compare the C3 and C4 pathways
		Chapter No. :12 Respiration in Plants	**Students will be able to:** **Remember:** The process of cellular respiration and its importance and the differences between aerobic and anaerobic respiration **Understand:** The mechanisms of glycolysis, Krebs cycle, and ETS pathway, fermentation and the amphibolic nature of cellular respiration **Apply**: The gained knowledge to describe the different stages of

	October & November		cellular respiration and use cellular respiration to understand plant growth and productivity **Analyze**: The difference between aerobic and anaerobic respiration and evaluate the importance of cellular respiration in plant metabolism
		Chapter No. :13 Plant growth and Regulators	**Students will be able to**: **Remember**: Define plant growth regulators (PGRs) and their role in plant development. **Understand:** The different types of PGRs, -Auxins, Gibberellins, Cytokinins , Abscisic acid (ABA), Ethylene gas and their functions and effects of each type of PGR **Apply**: The gained knowledge to identify and describe the different types of PGRs and their applications in agriculture and horticulture **Analyze**: The role of PGRs in plant stress responses and evaluate the the effects of different PGRs on plant growth and development and importance of PGRs in agriculture and horticulture.
		Chapter No:14 Breathing and Exchange of gases	Students will be able to: **Remember**: The structure and function of the human respiratory system and the mechanism of breathing **Understand**: The mechanism of breathing, different lung volumes and capacities, process of gas exchange in the lungs, the oxygen dissociation curve and the regulation of breathing **Apply**: The gained knowledge of breathing and gas exchange to understand respiratory disorders and to understand the importance of lung health **Analyze**: The effects of environmental factors on breathing and gas exchange
		Chapter No:15: Body fluids and Circulation	**Students will be able to:** **Remember:** The composition and function of blood, including: Red blood cells, White blood cells, Platelets **Understand:** The ABO blood grouping, Rh blood grouping, blood coagulation. structure and function of the heart and the importance of ECG in diagnosing heart disorders **Apply:** The gained knowledge to understand heart disorders and determining the Blood groups **Analyze:** The different heart disorders and effects of lifestyle factors on cardiovascular health
		Chapter No.:16 Excretory Products and their Elimination	**Students will be able to:** **Remember:** The different parts of the kidney and nephron and their functions **Understand**: The structure of nephron, the process of micturition and its regulation, mechanisms of ultrafiltration and selective reabsorption, Renin-Angiotensin-Aldosterone mechanism, the process of dialysis **Apply:.**The knowledge of ultrafiltration and kidney function to study disorders of excretory system and perform practicals related to presence of albimin, urea, sugar, proteins in the urine **Analyze:**The importance of kidneys in maintaining homeostasis and removing waste products from the blood
	December	**PERIODIC TEST- II**	
		Chapter No. :17 Locomotion and Movement	**Students will be able to:** **Remember:** The structure and function of Types of skeletal, smooth, cardiac muscles **Understand:** The structure of a sarcomere, phenomenon of muscle contraction-sliding filament theory, role of contractile

			proteins in muscle contraction, the skeletal system and its joints **Apply:** The gained knowledge to identify the different bones of our skeletal system and the importance of bone health and different muscle disorders **Analyze:** The different types of muscles and their functions and evaluate the effects of exercise and physical activity on muscle and bone health
		Chapter No. - 18 Neural Control and Coordination	**Students will be able to:** **Remember:** The structure and function of neuron and neural system -Central Nervous System (CNS) and Peripheral Nervous System (PNS) and the structure of the brain- Forebrain, Midbrain and Hindbrain **Understand:**The conduction of nerve impulses,the transmission of impulses between neurons, structure and functions of different parts of the human brain **Apply:** The gained knowledge to identify and describe the different types of neurons and to understand neurological disorders **Analyze:** The effects of neurological disorders on behavior and cognition and evaluate the importance of the neural system in maintaining overall health
		Chapter No. :19 Chemical Control and Co-ordination	**Students will be able to:** **Remember:** The different endocrine glands and the hormones secreted by them **Understand:** The mechanism of hormone action, the effects of hypo-secretion and hypersecretion of hormones on the body **Apply:** The gained knowledge to identify and describe the different endocrine disorders and to understand the diagnosis and treatment of endocrine disorders **Analyze:** The comparison of different endocrine glands and their functions and the effects of endocrine disorders on overall health
	January	**REVISION OF FINAL EXAMINATION**	
	February & March	**ANNUAL PRACTICAL AND ANNUAL EXAMINATION**	

Mathematics (041)

Book Prescribed: NCERT			
	Months	**Content**	
Term -I	**April**	Chapter No. 1: Sets	**Students will be able to:** **Remember:** The definition and notation of sets and different types of sets such as subsets, super sets and disjoint sets **Understand:** The concept of sets and comprehend set operations as union, intesection and difference **Apply:** Set operations to solve problems involving sets and use Venn diagrams to represent sets and solve problems **Analyze:** Sets to determine relationships between them

	May & June	Chapter No. 4: Complex Numbers and Quadratic equations	**Students will be able to:** **Remember:** The definition and properties of complex numbers, standard form of complex numbers and the concept of conjugates **Understand:** The concept of Complex numbers as an extension of real numbers, including their representation and operations **Apply:** The knowledge of Complex numbers to solve quadratic equations with no real roots **Analyze:** The nature of roots of a quadratic equation - real, complex, equal or distinct
		Chapter No. 8: Sequence and Series	**Students will be able to:** **Remember:** The formulas for the nth term and sum of arihmetic and geometric sequence/series **Understand:** **Apply:** The formulas of arithmetic and geometric series to model real- world solutions **Analyze:** The relationship between the terms in a sequence , AM and GM
		Chapter No. 5: Linear Inequalities	**Students will be able to:** **Remember:** The definition and properties of linear inequalities **Understand:** The concept of linear inequalities and how these differ from linear equations **Apply:** The gained knowledge to solve word problems **Analyze:** The solution sets of linear inequalities and represent them graphically.
	June	**SUMMER BREAK**	
	July	Chapter No. 3: Trigonometric Functions	**Students will be able to:** **Remember:** Basic trigonometric identities and formulas **Understand:** Domain and range of trigonimetric functions and their graphs **Apply:** Trigonometric identities and formulas to simplify and solve equations **Analyze:** The relationships among trigonometric functions
		Chapter No. 9: Straight Lines	**Students will be able to:** **Remember:** The different forms of the equation of a straight line and the formulas for slope and distance **Understand:** The concept of slope and its relation to the angle of inclination **Apply:** The formulas and equations to find slope and distance betwen the lines **Analyze:** The relationship between two lines- parallel, perpendicular and Intersecting
	August	**PERIODIC TEST-I**	
		Chapter No. 13: Statistics	**Students will be able to:** **Remember:** The measures of central tendency - mean, median and mode and dispersion - variance and standard deviation **Understand:** The relation between measures of central tendency and dispersion **Apply:** Statistical measures to interpret data and solve problems **Analyze:** The use of statistical measures and data representation in real- world contexts
	September	**REVISION & TERM-I EXAMINATION**	

Term -II	**October & November**	Chapter No. : 6 Permutation and Combinations	**Students will be able to:** **Remember:** The formula for permutations of n objects taken r at a time (nPr) and the formula for combinations of n objects taken r at a time (nCr) **Understand:** The concept of factorial notation (n!) and the basic principle of counting **Apply:** The gained knowledge to calculate the number of possible arrangements and selections in various given scenarios **Analyze**: The difference between permutations and combinations and their use in various real world situations
		Chapter No. : 7 Binomial theorem	**Students will be able to:** **Remember**: Binomial theorem, binomial coefficients and Pascal"s Triangle **Understand:** The process of expanding binomial expressions, general term and middle term in a binomial expansion **Apply**: Binomial theorem to expand binomial expressions upto nth power and alos find specific terms in a expansion without expanding the entire expansion **Analyze**: Patterns in binomial expansions
		Chapter No. : 2 Relations and Functions	**Students will be able to:** **Remember:** Key definitions - cartesian product, relation, functions, domain, codomain, and range **Understand:** All functions are relations but not all relations are functions **Apply:** The gained knowledge of relations to write the ordered pair and hence find the domain, codomain and rage of the function **Analyze:** The difference between a relation and a function
		Chapter No. : 14 Probability	**Students will be able to:** **Remember:** Definitions of probability, experiment, outcome, and event ; axioms of probability (non-negativity, normalization, additivity) and key terms - sample space, event, probability measure **Understand:** The concept of probability (theoretical, experimental) and the relationships between events (mutually exclusive, independent) **Apply:** The gained knowledge to calculate probabilities of events and solve problems involving probability. Also, apply probability rules to real-world scenarios **Analyze:** Real-world applications of probability
	December	**PERIODIC TEST-II**	
		Chapter No. : 12 Limits and Derivatives	**Students will be able to:** **Remember:** The concept of limits and formulas for derivatives of basic functions **Understand:** The role of limits in defining derivatives **Apply:** Properties and formulas to evaluate limits and apply the rules of derivatives **Analyze**: The behaviour of functions using limits and derivatives
		Chapter No. : 10 Conic sections	**Students will be able to:** **Remember:** Definitions of conic sections (circle, ellipse, parabola, hyperbola), key terms (focus, directrix, vertex, axis) and standard equations of conic sections **Understand:** Properties and graphical interpretation of different conics **Apply:** The gained knowledge to identify the conics from their

			equations and solve problems involving those **Analyze:** The difference in properties of different conics
		Chapter No. : 11 Introduction to Three Dimensional Geometry	**Students will be able to:** **Remember:** The three-dimensional coordinate system (x, y, z axes) and identify key terms (octants, coordinates, distance formula) **Understand:** Coordinate geometry in three dimensions, distance and section formulas and octants and coordinate signs **Apply:** The gained knowledge to find distances between points in 3D space and to find coordinates of points dividing a line segment **Analyze**: The difference between 2D and 3D geometry and real-world applications of 3D geometry
	January	**Revision of Final Examination**	
	February & March	**Annual Practical and Annual Examination**	

Computer Science

Book Prescribed: Computer Science with Python (Sumita Arora by Dhanpat Rai Publication)			
	Months	**Content**	**Learning Outcomes**
	April	Chapter No. 1: Computer System Organization	**Students will be able to:** **Remember:** Key components of a computer system and recall basic terminology related to computer architecture **Understand:** The function of each component in a computer system Apply: The acquired knowledge to demonstrate how different units (input, processing, output, storage) work together in real-life scenarios **Analyze**: The difference between primary and secondary memory in terms of speed and use
		Chapter No. 2: Data Representation	**Students will be able to:** **Remember**: Number systems such as binary, decimal, octal, and hexadecimal and their inter conversion **Understand**: The conversion process between number systems and interpret binary codes and ASCII values for characters **Apply:** The gained knowledge to convert numbers between binary, decimal, octal, and hexadecimal systems **Analyze**: Different number systems in terms of usage and efficiency
Term-1	**May & June**	Chapter No. 3 : Boolean Logic	**Students will be able to:** **Remember:** Definition of Boolean logic and its basic operations (AND, OR, NOT) ; Recall truth tables for basic Boolean operations and list Boolean laws and identities (e.g., De Morgan's Theorems) **Understand**: The function of each Boolean operator and interpret truth tables and Boolean expressions **Apply:** Boolean logic in real-world scenarios such as conditional programming and logic gates **Analyze**: Digital circuits or logical conditions using Boolean expressions

		Chapter No. 9: flow of Control (up to control statements)	**Students will be able to:** **Remember:** Recall the three types of control structures in Python. **Understand:** Explain how conditional constructs change the flow of a Python program. **Apply:** Solve real-world problems using control flow statements (e.g., check for even/odd, number guessing game, grade calculator). **Analyze:** Trace the execution of Python programs with multiple control statements and predict the output
	June	**SUMMER VACATION**	
	July	Chapter No 4: Introduction to problem Solving	**Students will be able to:** **Remember**: steps of the problem-solving process (e.g., understanding the problem, planning the solution, executing the plan, reviewing the results). **Understand**: Explain the importance of problem-solving in computer science and daily life. **Apply**: flowchart or pseudocode to represent the steps of a simple problem. **Analyze**: Evaluate the effectiveness of a problem-solving approach based on time, accuracy, and complexity.
		Chapter No. 5: Getting Started with Python.	**Students will be able to:** **Remember**: Define Python and identify it as a high-level, interpreted programming language. **Understand**: Explain how Python differs from other programming languages (e.g., its simplicity, readability). **Apply**: Execute Python code and correct basic syntax errors. **Analyze**: Break a problem into smaller steps and write a Python program to solve it using appropriate syntax and logic.
	August	Chapter No. 6: Python Fundamentals	**Students will be able to:** **Remember**: Python concepts: variables, data types, operators, and expressions. **Understand**: Explain how Python handles different data types during operations. **Apply**: Accept input from users and process it using expressions and operators. **Analyze**: Debug Python code involving variables, data types and operators.
		PERIODIC TEST-I	
		Chapter No. 7: Data Handling	**Students will be able to:** **Remember**: Recall basic data structures used in Python (lists, tuples). **Understand**: Explain the need for organizing and handling data in programs. **Apply**: Perform data operations such as sorting, filtering, and aggregating **Analyze**: Debug and improve programs that involve incorrect data handling or inefficient data processing.
	September	**REVISION & TERM-I EXAMINATION**	

Term-II	**October & November**	Chapter No. :14 Cyber Safety	**Students will be able to:** **Remember:** Terms such as cyber safety, cyberbullying, phishing, malware, and identity theft **Understand:** The importance of cyber safety in day-to-day digital life **Apply:** Safety measures while using social media, emails, and online shopping **Analyze:** Real-life scenarios where cyber safety is compromised and suggest preventive measures
		Chapter No. 9: flow of Control (Iteration Statements)	**Students will be able to:** **Remember**: Recall the three types of control structures in Python. **Understand**: Explain how looping constructs change the flow of a Python program. **Apply**: Solve real-world problems using iteration flow statements **Analyze**: Trace the execution of Python programs with multiple loops statements and predict the output.
		Chapter No. 15 Society , Law and Ethics	**Students will be able to:** **Remember:** Key terms such as intellectual property rights (IPR), plagiarism, cyber law, data protection, and digital footprint, major cyber laws applicable in India (e.g., IT Act 2000) and different types of unethical practices in digital environments (e.g., software piracy, copyright violation) **Understand:** The importance of ethical behavior in the use of technology **Apply:** Basic legal and ethical concepts in real-life scenarios (e.g., respecting privacy, intellectual property) **Analyze:** Case studies involving misuse of technology and their societal impact
		Chapter No. :8 Introduction to Python Module	**Students will be able to:** **Remember:** Different types of modules (built-in and user-defined) **Understand:** The need for using modules in Python programming **Apply:** The gained knowledge of functions from standard modules to solve real-life problems (e.g., generating random numbers, date/time handling) **Analyze:** A program to determine how modular design improves maintainability and reusability
	December	**PERIODIC TEST-II**	
		Chapter No. :10 String Manipulation	**Students will be able to:** **Remember:** String declaration, indexing, and slicing ; commonly used string functions and methods e.g., len(), upper(), lower(), find(), replace() **Understand:** How string indexing and slicing work Apply: The gained knowledge to perform string operations such as concatenation, repetition, comparison, and slicing **Analyze:** The difference between mutable and immutable data types using strings as an example
		Chapter No.: 11 List Manipulation	**Students will be able to:** **Remember**: The syntax for creating a list and accessing elements using indexing and list of commonly used list functions and methods e.g., append(), insert(), remove(), pop(), sort(), reverse() **Understand:** How indexing and slicing work in lists **Apply:** The gained knowledge to use list methods in Python

			programs to manipulate and process data **Analyze:** The appropriate list methods or techniques for specific problem-solving scenarios
		Chapter No.: 12 Tuple Manipulation	**Students will be able to:** **Remember:** The syntax for creating tuples and accessing elements using indexing **Understand:** The significance of immutability in tuples Apply: The gained knowledge to perform operations such as slicing, concatenation, repetition, and membership tests on tuples **Analyze:** Various scenarios where using tuples is more appropriate than lists
		Chapter No.: 13 Dictionaries	**Students will be able to:** **Remember:** The syntax for creating dictionaries using key-value pairs **Understand:** The differences between lists, tuples, and dictionaries **Apply**: The gained knowledge to perform operations such as adding, updating, retrieving, and deleting key-value pairs **Analyze:** Program logic to determine the correct usage of dictionary methods
	January	**REVISION OF FINAL EXAMINATION**	
	February & March	**ANNUAL PRACTICAL AND ANNUAL EXAMINATION**	

Physical Education

Book Prescribed: SP Book			
	Months	**Content**	**Learning Outcomes**
TERM-I	**April**	UNIT-1 Changing Trends and Career in Physical Education	**Students will be able to:** **Remember:** Define physical education and its importance and Identify different careers in physical education **Understand:** How physical education has evolved over the years and the qualifications and skills required for various careers **Apply:** The gained knowledge of fitness trends to create a basic fitness routine and demonstrate the use of technology in physical training and match personality traits and interests with potential careers in physical education. **Analyze:** Traditional and modern approaches to physical education and how global trends are shaping career opportunities in choosing physical education as a profession
	May & June	UNIT-2 Olympic Value Education	**Students will be able to:** **Remember:** The history and origin of the Olympic Games and the important Olympic movements and personalities and symbols of the olympic **Understand:**The meaning and importance of each Olympic value and understand the role of sports in character and moral development **Apply:** Olympic values in school or sports activities and organize small games or events that reflect Olympic spirit and values **Analyze:** Real-life examples where sports helped overcome conflict or brought social change and evaluate how effectively Olympic values are practiced in modern sports
	June	**SUMMER BREAK**	

	July	UNIT-3 Yoga	**Students will be able to:** **Remember:** Definition of yoga and its origin and list different types of yoga ; Recall basic yoga postures (Asanas), breathing techniques (Pranayama), and meditation practices **Understand:** The purpose of yoga for physical, mental, and spiritual well-being and understand how yoga helps in stress management, concentration, and emotional balance **Apply:** The gained knowledge to perform simple yoga asanas and breathing exercises with correct technique, design a short yoga session for relaxation or physical fitness and practice mindfulness and meditation regularly as a lifestyle habit **Analyze:** The impact of yoga on health conditions like anxiety, obesity, or back pain and its reflection on personal changes through regular practice
		UNIT-4 Physical Education and Sports for Children with Special Needs	**Students will be able to:** **Remember:** The different types of disabilities and definition of Children with Special Needs (CWSN) ; Key concepts : Adapted physical education programs and inclusive sports activities **Understand:** The importance of physical activity for children with special needs and how to modify activities and equipment to suit individual needs. Describe how inclusive physical education promotes confidence, teamwork, and health **Apply:** The gained knowledge to create or modify a basic physical activity to suit children with different abilities by using inclusive strategies in games or group activities. Demonstrate supportive behavior and empathy toward CWSN during sports or classroom sessions **Analyze:** Traditional and inclusive physical education approaches , challenges faced by CWSN in accessing sports opportunities and evaluating the role of inclusive education in promoting equality and reducing stigma
	August	**PERIODIC TEST-I**	
		UNIT-5 Physical Fitness, Wellness and Lifestyle	**Students will be able to:** **Remember**: Key terms -Define physical fitness, wellness, and a healthy lifestyle and the components of physical fitness, types of wellness , healthy habits and lifestyle factors **Understand**: The relationship between physical activity, wellness, and quality of life and understand how wellness is a lifelong process that includes physical and mental balance **Apply**: The gained knowledge to create and follow a daily fitness routine and set realistic goals for improving personal fitness , also use tools to track progress **Analyze** : Different types of fitness routines and their long-term impacts and how lifestyle choices affect academic performance, mood, and physical health
	September	**REVISION & TERM-I EXAMINATION**	

Term -II	**October & November**	UNIT-6 Test, Measurement and Evaluation	**Students will be able to:** **Remember**: Key terms: test, measurement, evaluation, and assessment and types of tests used in physical education **Understand:** The difference between testing, measurement, and evaluation and importance of assessments in physical education **Apply**: The gained knowledge to conduct, record and analyze test results to evaluate personal fitness levels and apply various assessment tools to track progress in physical education activities. **Analyze**: Different testing methods and their reliability and validity in assessing fitness and evaluate how different factors influence test outcomes and performance
		UNIT-7 Fundamental of Anatomy and Physiology in Sports	**Students will be able to:** **Remember**: Major systems of the human body - muscles, bones, joints, and organs involved in sports activities and the basic functions of each system related to movement and performance **Understand**: How different systems of the body work together during physical activity, role of muscles and joints in movement, flexibility, and strength **Apply**: The acquired knowledge of muscles and joints to perform safe warm-ups and cool-downs and improve performance in sports; Create basic fitness routines considering anatomical and physiological principles **Analyze:** The role of different muscle groups in various sports movements and how the body responds to training
		UNIT-8 Fundamental of Kinesiology and Biomechanics in Sports	**Students will be able to:** **Remember**: Meaning of kinesiology and biomechanics, basic principles of motion and key laws of motion **Understand:** How muscles, bones, and joints work together to create movement and the role of gravity, balance, and coordination **Apply**: Principles of biomechanics to improve technique in a specific sport **Analyze**: Different movement techniques and their effectiveness in performance and how improper biomechanics may lead to injury
	December	**PERIODIC TEST-II**	
		UNIT-9 Psychology and Sports	**Students will be able to:** **Remember**: Meaning of sports psychology and its role in physical education and sports performance **Understand:** The importance of psychological readiness in sports, the role of goal-setting, visualization, and focus in improving performance and the impact of personality traits on an athlete's behavior and team dynamics **Apply**: Psychological techniques like deep breathing, positive self-talk, or visualization during practice or competition to develop strategies to improve focus and reduce performance anxiety **Analyze**: The mental strengths and weaknesses of athletes based on behavior or performance in sport and how different psychological states affect individual and team performance
		UNIT-10 Training and Doping in Sports	**Students will be able to:** **Remember**: The term training and doping in the context of sports, types of physical training, identification of banned substances and agencies like WADA **Understand:** The principles of sports training, physical and psychological effects of doping on athletes and the ethical, legal, and health-related consequences of doping **Apply**: Safe training techniques to enhance endurance, strength,

			and flexibility and promote awareness about the risks of doping among peer values **Analyze**: Real-world doping cases and their impact on athletes' careers and reputations and the effects of legal training methods vs. illegal performance-enhancing methods
	January	**REVISION OF FINAL EXAMINATION**	
	February & March	**ANNUAL PRACTICAL AND ANNUAL EXAMINATION**	

Painting

Book Prescribed: An Introduction of Indian Art Part -1 +Panoramic Indian Painting + A2 Size Practical Files-2			
	Months	**Content**	**Learning Outcomes**
TERM-I	**April**	Chapter No. : Fundamentals of Art	Students will be able to: **Remember**: The key elements and principles of art, including line, shape, form, space, texture, value, and colour **Understand**: How artists use these fundamentals to communicate meaning and explain the significance and function of various elements in artistic composition **Apply**: The acquired knowledge to demonstrate the use of basic elements and principles in creating simple art compositions **Analyze**: How the fundamentals are employed across various styles and periods of art.
	May & June	Chapter No. : The Pre-Historic rock Paintings	**Students will be able to:** **Remember:** The major prehistoric sites and examples of rock art in India and globally and recall the historical timeline and cultural context of prehistoric paintings **Understand:** The materials, tools, and techniques used by prehistoric artists **Apply:** The acquired knowledge to recreate a composition inspired by Pre-Historic rock painting techniques using natural or traditional materials **Analyze:** The cultural and historical significance of rock art in early human civilizations
	June	**SUMMER BREAK**	
	August	**PERIODIC TEST-I**	
		Chapter No. : Arts of Indus Valley Civilization	**Students will be able to:** **Remember:** The key features and archaeological findings from the Indus Valley Civilization Identify prominent sites such as Mohenjo-daro, Harappa, and Lothal. **Understand:** The significance of seals, terracotta figurines, sculptures, and pottery in the Indus Valley.The artistic and technical excellence achieved in this civilization. **Apply:** The stylistic features and cultural influences in Indus Valley artifacts. The motifs and forms of the Indus Valley to later Indian art traditions. **Analyze:** The role of art in the socio-economic and religious practices of the Indus people. The contribution of the Indus Valley to the evolution of Indian art.

		Chapter No. : Buddhist, Jain and Hindu Art	**Students will be able to:** **Remember:** The important monuments, sculptures, and architectural styles from Buddhist, Jain, and Hindu traditions.The significant sites such as Sanchi, Ajanta, Ellora, and Khajuraho. **Understand:** The iconography, symbolism, and stylistic developments of each religious tradition.The evolution of temple architecture and narrative sculpture. **Apply:** The differences and similarities in motifs and structures across the three traditions.The knowledge of symbolic representation to analyze artwork. **Analyze**: The role of religion and patronage in the growth of Indian art.
	September	**REVISION & TERM-I EXAMINATION**	
TERM-II	**October & November**	Temple Sculpture, Bronze and Aspects of Indo-Islamic Architecture	**Students will be able to**: **Remember:** The origin and development of temple sculpture and bronze art in India and identification of important temples and sculptures belonging to different dynasties and regions **Understand**: The significance of temple sculpture and bronze art in Indian cultural and religious traditions and how Islamic principles and Indian traditions merged in Indo-Islamic architecture **Apply:** the gained knowledge to prepare drawings or models showing elements like domes, arches, minarets, and carvings and present case studies of famous monuments such as Brihadeeswara Temple, Nataraja bronze, and Qutub Minar **Analyze:** Temple architecture with Indo-Islamic architectural forms and examine how materials, techniques, and patronage influenced the art and architecture of the period
	December	**PERIODIC TEST-II**	
	January	**REVISION OF FINAL EXAMINATION**	
	February & March	**ANNUAL PRACTICAL AND ANNUAL EXAMINATION**	

Hindustani Music Vocal

Book Prescribed: Sangeet Anand + Sangeet Shelly Practical File (Unique Publications)			
	Months	**Content**	**Learning Outcomes**
TERM-I	**April**	Unit 1: Naad, Shruti, Swar, Saptak, Thaat, Jaati, Laya, Taal, Margi Sangeet Desi Sangeet,	**Students will be able to:** **Remember:** Key terms related to Hindustani Music (e.g., raga, tala, swara, laya) **Understand:** Basic terms of Indian Classical Music **Apply:** The gained understanding of Swaras and Talas to create different types of compositions in Indian classical Music **Analyze:** The structure and composition of Hindustani Music pieces

	May & June	Unit 2: Brief history of Khayal Brief study of Dhrupad and Tarana .	**Students will be able to:** **Remember:** Key features and historical background of Dhrupad Khayal and Tarana **Understand:** The description of role of each form in Hindustani Music **Apply:** The knowledge of these forms in vocal performances **Analyze:** The significance of each form in Hindustani Music's development
	June	**SUMMER BREAK**	
	July	**PERIODIC TEST-I**	
		Unit 4: Description of prescribed Talas (Teentala, Ektala) with Tala Notation in Thah, Dugun, and Chaugun Knowledge of the structure of Tanpura	**Students will be able to:** **Remember:** The prescribed notation system of Ektaal, Teentaal along with their Layakaries ; The structure of Tanpura **Understand:** The concept of Thah, Dugun and Chaugun in Hindustani Music **Apply:** The acquired knowledge of Talas and rhythmic patterns in vocal performances **Analyze:** Different Talas and their applications and the importance of Tanpura in Hundustani Music
	September	**REVISION & TERM-I EXAMINATION**	
Term-II	**October & November**	Unit 5 Critical study of Prescribed Ragas along with Recognizing Ragas from phrases of Swaras and elaboration them. Writing in notation the compositions of Raag Bihag and Bhimplasi, Raag Bhairvi	**Students will be able to:** **Remember**: Thaat, time of singing, and important swaras (Vadi–Samvadi) and identify aroha–avaroha, pakad, and chalan of each raga **Understand**: How theoretical rules are reflected in practical rendition **Apply**: The acquired knowledge to demonstrate raga compositions (bandish, chota khayal) in appropriate taal **Analyze**: A performance and its break down into theoretical components—aroha, avaroha, nyas swar, chalan, and taan structure
		Unit 3 Brief study of Musical Elements in Natya Shastra .Life sketch and contribution of Tansen ,V.N.Bhatkhande and V.D.Paluskar	**Students will be able to:** **Remember**: The main musical elements of Natya Shastra, important facts from the life and works of Tansen, V.N. Bhatkhande, and V.D. Paluskar **Understand**: The importance of Natya Shastra in shaping Indian music and the contributions of Tansen, Bhatkhande, and Paluskar **Apply:** The gained knowledge to relate Bhatkhande's Thaat system to present-day Raga classification and connect Paluskar's efforts in spreading music education to modern institutions **Analyze**: The contributions of Tansen, Bhatkhande, and Paluskar in the development of Hindustani music and critically examine how the Natya Shastra influenced later music theory and practice
	December	**PERIODIC TEST-II**	
	January	**REVISION OF FINAL EXAMINATION**	
	February & March	**ANNUAL PRACTICAL AND ANNUAL EXAMINATION**	

Web application

Book Prescribed: CBSE Resources			
	Months	**Content**	**Learning Outcomes**
TERM-I	**April**	Chapter No. :1 (Part-A) Communication Skills-III	**Students will be able to:** **Remember:** The definition of communication, types of communication **Understand**: The importance of communication, barriers to communication **Apply**: The gained knowledge to apply communication skills and communication techniques in real-life situations **Analyze**: Different communication styles, analyzing effective and ineffective communication
	May & June	Chapter No. : 2 (Part-B) Website Building Using HTML and CSS	**Students will be able to:** **Remember**: Basic tags and elements of HTML, basic properties and selectors of CSS **Understand**: The structure of a web page **Apply**: The acquired knowledge to create simple web pages using HTML, Style web pages (using CSS) to make them visually appealing **Analyze**: Different errors in HTML and CSS code and the way to fix them
	June	**SUMMER BREAK**	
	July	Chapter No. : 2 (Part- B) Website Building Using HTML and CSS	**Students will be able to**: **Remember**: The definition of HTML (Hyper Text Markup Language) and CSS (Cascading Style Sheets). **Understand:** The relationship between HTML content and its visual presentation through CSS **Apply**: The acquired knowledge to create a simple webpage using basic HTML tags **Analyze**: The break down a webpage layout to understand the role of different HTML and CSS components
		Chapter No. : 2 (Part-A): Self-Management Skills-III	**Students will be able to**: **Remember**: The concept of self-management and its importance in daily life **Understand**: How self-motivation and personal responsibility contribute to self-management **Apply**: How to use Self-discipline and stress management techniques in classroom activities **Analyze**: Interpret Personal habits and identify areas needing improvement for better self-management
	August	**PERIODIC TEST-I**	
		Chapter No. :1 (Part-B) : Basics of Networking	**Students will be able to:** **Remember**: Computer network and types of networks, network devices **Understand**: The purpose and benefits of networking **Apply**: The acquired knowledge to determine the best network type for a given scenario (e.g., school vs. city-wide office) **Analyze:** The advantages and disadvantages of various topologies.

	September	**REVISION & TERM-I EXAMINATION**	
Term- II	**October & November**	Chapter No. : 3 (Part-A) Entrepreneurial Skills-III	**Students will be able to:** **Remember:** The concept of entrepreneurship and entrepreneur. **Understand:** The importance of entrepreneurship in economic development **Apply**: The acquired knowledge to identify opportunities in daily life that could become small business ideas **Analyze**: Different entrepreneurs and analyze what made them successful
		Chapter No. : 3 (Part-A) ICT Skills-III	**Students will be able to:** **Remember**: Define entrepreneur, list qualities, functions, and types **Understand**: The importance, difference from employee, and role of innovation **Apply:** The gained knowledge to use skills to make a business idea, solve problems, lead a team **Analyze**: Different entrepreneurs and their success stories, study risks and rewards
		Chapter No. :1 (Part-B) : Basics of Networking	**Students will be able to:** **Remember:** Computer network and types of networks, network devices **Understand:** The purpose and benefits of networking **Apply:** The acquired knowledge to determine the best network type for a given scenario (e.g., school vs. city-wide office) **Analyze:** The advantages and disadvantages of various topologies.
	December	**PERIODIC TEST-II**	
		Chapter No. : 5 (Part- A) Green Skills-III	**Students will be able to:** **Remember:** 3Rs – Reduce, Reuse, Recycle **Understand:** Why waste management is important Apply: The gained knowledge to segregate and recycle waste properly **Analyze:** Effects of poor waste management on environment
		Chapter No. : 3 (Part- B) : Multimedia Design Using GIMP	**Students will be able to:** **Remember**: GIMP and its tools (paint, text, layers, selection, etc.). **Understand:** How GIMP helps in editing and creating multimedia designs **Apply**: The gained knowledge to use GIMP to edit images, add text, apply filters, and create designs **Analyze**: Different elements of design, image quality, and visuals
		Chapter No. : 4 (Part - B) JavaScript Part 1	**Students will be able to:** **Remember**: What JavaScript is, its syntax, variables, and data types **Understand:** How JavaScript makes web pages interactive and dynamic **Apply:** The gained knowledge to write simple scripts using functions, loops, and events **Analyze:** Errors, compare code outputs, and optimize performance

	January	**REVISION OF FINAL EXAMINATION**
	February & March	**ANNUAL PRACTICAL AND ANNUAL EXAMINATION**

Yoga

Book Prescribed: CBSE			
	Months	**Content**	**Learning Outcomes**
TERM-I	**April**	Introduction to Yoga (Yoga)	**Students will be able to:** **Remember:** Define the term Yoga, its origin, history and development of Yoga in India. **Understand:** The meaning and purpose of Yoga and the importance of Yoga for physical, mental, and spiritual well-being. **Apply:** The gained knowledge to perform selected asanas to develop a personal yoga routine and breathing techniques correctly to reduce stress and improve lifestyle and habits **Analyze:** The impact of Yoga on stress and lifestyle diseases and compare Yoga with other forms of physical exercise.
	May & June	Yogic Practices (Yoga)	**Students will be able to**: **Remember:** Yogic practices including names and types and important texts like Patanjali Yoga Sutras, Bhagavad Gita **Understand**: The importance and role of Yoga in holistic health of regular yogic practices in daily life **Apply**: Demonstrating basic Yoga practices such as:simple asanas, pranayama techniques, meditation and relaxation techniques **Analyze**: The benefits of asanas and pranayama and how Yoga affects the body systems and the role of yogic diet and discipline in improving performance
	June	**SUMMER BREAK**	
		UNIT-1 Communication Skills- III (Employability skill)	**Students will be able to**: **Remember:** The types, the elements of the communication process, the 7 Cs of effective communication and barriers to communication **Understand**: The importance of effective communication in daily life and the workplace, non-verbal communication cues and the difference between formal and informal communication **Apply**: Effective communication in role-plays and presentations using proper tone, pitch, and body language **Analyze:** The difference between effective and ineffective communication styles, real-life or simulated scenarios to identify communication gaps or breakdowns and the impact of communication barriers on relationships or work performance

		UNIT-2 Introduction to Yoga Texts (Yoga)	**Students will be able to:** **Remember**: The number of limbs in Ashtanga Yoga and Patanjali Yoga Sutras **Understand**: The significance of the Patanjali Yoga Sutras in the philosophy and yogic teachings of the Bhagavad Gita. Describe the difference between Hatha Yoga and Raja Yoga." **Apply:** How concepts from yoga texts can be applied in daily life and practice of basic yoga techniques. **Analyze:** Compare and contrast the teachings of Patanjali Yoga Sutras and the Bhagavad Gita and discuss the philosophical foundations of yoga as presented in classical texts.
	August	**PERIODIC TEST-I**	
		UNIT-2 Self Management II Skills (Employability Skill)	**Students will be able to:** **Remember:** The definition of self-management, its key skills such as self-discipline, motivation, organization and recall techniques for managing time, stress, and emotions effectively **Understand:** The importance of self-management in personal and academic life and the consequences of poor self-management, importance of self discipline in forming habits and routines to yield productivity **Apply:** The knowledge of SMART goals for personal or academic growth, time management tool and stress-reducing strategies to organize tasks **Analyze**: Effective vs. ineffective self-management strategies in different scenarios, obstacles to self-management and how self- management impacts academic performance and relationships
	September	**REVISION & TERM-I EXAMINATION**	
Term-II	**October & November**	UNIT- 3 Information & Communication Technology Skills (Employability Skill)	**Students will be able to:** **Remember:** Basic keyboard shortcuts and functions, computer system parts and common ICT tools **Understand:** The importance of ICT in education, work, and daily life and describe key software functions, digital communication tools and basic user interface elements **Apply:** The acquired knowledge to use word processors for document creation and formatting, send and receive emails with attachments, safely search the internet, and create basic slide presentations **Analyze:** ICT's impact on communication, learning, and work and cyber safety issues with prevention strategies
		UNIT-4 Entrepreneurial Skills II (Employability Skill)	**Students will be able to:** **Remember:** Meaning of assessment and evaluation, list assessment types and tools, and recall the objectives of student evaluation in learning **Understand:** Entrepreneurship's role in economic growth and jobs, outline the business startup process, and the innovation and problem-solving involved **Apply:** The gained knowledge to create a simple business plan addressing a problem using tools like SWOT analysis to present ideas **Analyze:** Success stories of successful entrepreneurs to identify traits and strategies and analyze business feasibility, risks and

			rewards, and market needs for relevant ideas
		UNIT-3 Yoga for Health Promotion (Yoga)	**Students will be able to:** **Remember:** The meaning, principles, and importance of Yoga for maintaining physical, mental, and emotional health **Understand:** How regular practice of Yoga contributes to health promotion, stress management, and lifestyle improvement **Apply:** The gained knowledge to demonstrate basic yogic practices (asanas, pranayama, and meditation) that promote holistic health and well-being **Analyze:** The effects of Yoga practices on different dimensions of health (physical, mental, emotional, and social) and identify suitable yogic practices for various health-related needs
	December	**PERIODIC TEST-II**	
		UNIT-5 Green Skills II (Employability Skill)	**Students will be able to:** **Remember:** Meaning of green skills, sustainable development, and eco-friendly practices; list the 5 Rs of sustainability; identify green jobs and industries; and recall the importance of conserving natural resources **Understand:** The need for environmental sustainability, human impacts on the environment ,discuss the role of green skills, and understand the connection between the green economy and job opportunities **Apply:** The gained knowledge to practice eco-friendly habits, engage in green initiatives, apply sustainability in daily tasks, and use digital tools to raise awareness on green living **Analyze:** Traditional and sustainable practices, and examine youth and education's role in promoting a green future
	January	**REVISION OF FINAL EXAMINATION**	
	February & March	**ANNUAL PRACTICAL AND ANNUAL EXAMINATION**	

Library & Information Science

Book Prescribed: CBSE			
	Months	**Content**	**Learning Outcomes**
TERM-I	**April**	Chapter No. : Communication Skills- III (Employability Skills)	**Students will be able to**: **Remember:** The do's and don't of good communication **Understand:** The importance of good communication to enhance personality **Apply:** The skill of communication for impactful conversation **Analyze**: The need of good communication in one's life
		Chapter No. : Library Information and Society - Role and its implications	**Students will be able to:** **Remember:** The key terms like library, information, society, and knowledge economy **Understand:** The role of libraries in social, educational, and cultural development **Apply**: The gained knowledge to demonstrate how libraries support digital literacy and lifelong learning **Analyze:** How societal changes (technology, economy, education) impact libraries

	May & June	Chapter No. : Self - Management Skills – III	**Students will be able to**: **Remember**: The definition of self-management and identify its key components (e.g., goal-setting, time management, emotional regulation) **Understand:** The importance of self-management in personal and academic life through group discussion **Apply:** The gained knowledge to create a daily or weekly self-management plan that includes goals, schedules, and personal reflection points **Analyze:** A scenario or case study involving poor self-management and identify what went wrong and how it could be improved
	June	**SUMMER BREAK**	
	July	Chapter No. : Oranization of Library Resources : Basics	**Students will be able to:** **Remember**: Basic terminology and concepts related to the organization of library resources. Flashcards for terms like classification, cataloguing, Dewey Decimal System, accession register **Understand**: Why organizing library resources is important and how different systems work **Apply:** The knowledge to classify and cataloguing techniques to simple examples **Analyze:** The different classification systems and identify their advantages/disadvantages
	PERIODIC TEST-I		
	August	Chapter No. : Reference and Information Sources	**Students will be able to** **Remember**: The various types of reference sources **Understand**: The purpose and content of various reference sources **Apply**: The gained knowledge to explore reference sources for specific information needs **Analyze:** The effectiveness of different reference sources
	September	**REVISION & TERM-I EXAMINATION**	
Term II	**October & November**	Chapter No. : ICT Skills – III	**Students will be able to:** **Remember:** The basic terms, tools, and functions related to ICT tools and software **Understand:** The concept of different ICT tools which help in managing information effectively **Apply:** The gained knowledge to use ICT tools to create, organize, and share information **Analyze:** Different ICT tools based on purpose, usability, and efficiency.
		Chapter No. : Entrepreneurial Skills - III	**Students will be able to:** **Remember:** Basic concepts and terms related to entrepreneurship **Understand:** The characteristics and importance of entrepreneurship **Apply:** Entrepreneurial thinking to real-life or simulated situations

			Analyze: Challenges and opportunities in entrepreneurial ventures
		Chapter No. : Computer Applications in Libraries : Basics	**Students will be able to: 5 MCQs, Short/** **Understand:** The concept of different ICT tools which help in managing information effectively **Apply:** The gained knowledge to use ICT tools to create, organize, and share information **Analyze:** Different ICT tools based on purpose, usability, and efficiency.
	December	**PERIODIC TEST-II**	
		Chapter No. : Green Skills - III	**Students will be able to:** **Remember:** Terms and concepts related to green skills and sustainability **Understand**: The importance of green skills and sustainable practices in daily life **Apply:** The gained knowledge to practice eco-friendly actions and suggest improvements for their surroundings **Analyze:** Connections among ideas; understanding the structure
	January	**REVISION OF FINAL EXAMINATION**	
	February & March	**ANNUAL PRACTICAL AND ANNUAL EXAMINATION**	

Marketing

Book Prescribed: CBSE Notes			
	Months	**Content**	**Learning Outcomes**
		Chapter No. : Communication Skills- III (Employability Skills)	**Students will be able to**: **Remember:** The do's and don't of good communication **Understand:** The importance of good communication to enhance personality **Apply:** The skill of communication for impactful conversation **Analyze**: The need of good communication in one's life
TERM-I	**April**	Unit 1: Introduction to Marketing	**Students will be able to**: **Remember:** the definition of marketing, market, marketer. List differences between needs, wants, and demands. **Understand:** the importance and scope of marketing. **Apply**: Classify various market types based on examples. Identify marketing activities around them (school events, local ads). **Analyze**: Compare product-centric vs customer-centric marketing approaches.

	May & June	Unit 1: Introduction to Marketing	**Students will be able to**: **Remember:** the characteristics and importance of modern marketing. **Understand:** the evolution of marketing (production, product, selling, marketing concept). The differentiation between traditional and modern marketing approaches. **Apply:** the acquired knowledge to prepare a short case about customer satisfaction and feedback. **Analyze**: Evaluate marketing's role in economic development. Analyse real-life examples of successful and failed marketing approaches.
		Chapter No. : Self - Management Skills - III	**Students will be able to**: **Remember**: The definition of self-management and identify its key components (e.g., goal-setting, time management, emotional regulation) **Understand:** The importance of self-management in personal and academic life through group discussion **Apply:** The gained knowledge to create a daily or weekly self-management plan that includes goals, schedules, and personal reflection points **Analyze:** A scenario or case study involving poor self-management and identify what went wrong and how it could be improved
	June	**SUMMER BREAK**	
	July	Unit 2: Marketing Environment	**Students will be able to:** **Remember:** the definition of marketing environment, micro and macro factors. List factors such as demographic, political, economic, technological, and social. **Understand**: how marketing environment impacts decision-making. the importance of SWOT and PEST analysis. the difference between controllable and uncontrollable factors. **Apply:** Identify environmental factors influencing a product launch. Conduct SWOT analysis for a local brand. Categorize examples into internal/external environment. **Analyze**: Evaluate how competitors affect business strategy. Analyze how legal and political factors influence product pricing. Compare micro and macro environments using real brand examples.
	August	**PERIODIC TEST-I**	
	August	Unit 3 : Market Segmentation, Targeting, and Positioning (STP)	**Students will be able to:** **Remember:** The definition of segmentation, targeting, and positioning and list the bases of segmentation (geographic, demographic, psychographic, behavioral), examples of mass vs niche marketing **Understand**: The importance of positioning in brand perception, the need for market segmentation and the differentiation between undifferentiated, differentiated, and niche targeting strategies **Apply**: The acquired knowledge to create STP for a product like a mobile phone or snack brand an develop a positioning statement for a new product **Analyze:** The effectiveness of segmentation strategies and

			compare brand positioning of two competing brands ; Analyze gaps in market based on STP strategy
	September	**REVISION & TERM-I EXAMINATION**	
Term- II	**October & November**	Unit 4: Marketing Mix	**Students will be able to:** **Remember**: The definition of 4Ps: Product, Price, Place, Promotion and list components under each "P" **Understand:** How the marketing mix contributes to customer satisfaction and the concept of extended marketing mix (7Ps). **Apply:** The gained knowledge to design a basic marketing mix for a new or existing product and modify a mix to suit a new target market **Analyze:** How companies use mix strategies to maintain competitive edge and the effectiveness of marketing mix in a failed product scenario
		Chapter No. : ICT Skills - III	**Students will be able to:** **Remember:** The basic terms, tools, and functions related to ICT tools and software **Understand:** The concept of different ICT tools which help in managing information effectively **Apply:** The gained knowledge to use ICT tools to create, organize, and share information **Analyze**: Different ICT tools based on purpose, usability, and efficiency.
		Chapter No. : Entrepreneurial Skills - III	**Students will be able to:** **Remember**: Basic concepts and terms related to entrepreneurship **Understand:** The characteristics and importance of entrepreneurship **Apply:** Entrepreneurial thinking to real-life or simulated situations **Analyze**: Challenges and opportunities in entrepreneurial Ventures
	December	**PERIODIC TEST-II**	
		Unit 5: Consumer Behaviour	**Students will be able to**: **Remember**: Types of consumers , consumer behaviour and buying motives and identify stages in the consumer decision-making process **Understand**: The factors influencing consumer behaviour (cultural, social, personal, psychological) and the importance of studying consumer behaviour in marketing **Apply**: The acquired knowledge to develop marketing strategies based on consumer behaviour principles **Analyze:** Consumer preferences across different demographics and the influence of reference groups and lifestyle on buying behaviour
	January	**REVISION OF FINAL EXAMINATION**	
	February & March	**ANNUAL PRACTICAL AND ANNUAL EXAMINATION**	