



Doon Public School

A New Generation Sr. Sec. School | Affiliated to CBSE
Sector 21, Panchkula - 134 112 (Haryana)

Class- XII (Science) Syllabus for the Session 2025-26 English

Book Prescribed: NCERT

	Months	Content	Learning Outcomes
Term-I	March - April & May	Chapter No. 1: The Last Lesson (prose), Flamingo	Students will be able to: Remember: The theme and message and traits of Franz and M.Hamel Understand: The importance of one's own language, emotional state of M. Hamel Apply: Linguistic chauvinism and love for one's language in real life situation Analyze: The importance of a teacher in the life of a student
		Chapter No.2 : The Lost Spring(prose), Flamingo	Students will be able to: Remember: Traits of Sahib and Mukesh, theme and message of the chapter Understand: Harsh realities of slum children, importance of childhood and those traditions that condemn slum children to a life of exploitation Apply: The gained knowledge and understanding of character's situation into real life situation and be empathetic Analyze: The circumstances and situation of both the protagonists and that society and political class only add to the sufferings of the slum and poor children
		Chapter No. : My Mother at Sixty Six (Poem) Flamingo	Students will be able to: Remember: Theme, message and central idea of the poem Understand: Poetic devices used in the poem and that aging and death is inevitable Apply: The gained knowledge in cherishing the moments spent with loved ones and importance of living in present Analyze: The emotions and fear of losing the mother, bonding between mother- daughter, nostalgic childhood memories
		Chapter No. : Keeping Quit (Poem)Flamingo	Students will be able to: Remember: Theme, message and central idea of the poem Understand: Poetic devices used, interpretation, importance of introspection Apply: Introspection, brotherhood, process of healing and nature being the supreme teacher in real life Analyze: The power of introspection and global brotherhood
		Chapter No 1 : The Third Level (Prose) Vistas	Students will be able to: Remember: The setting of the chapter, the chronological events of the story Understand: Psychological impact of world wars on people and concept of escapism through Charlie Apply: The gained knowledge through Charlie and Sam's character in understanding people's mental situation

		Analyze: Charlie's personality and impact of grandfather, pre and post world war situations, in shaping his personality
Chapter No.2 :	The Tiger King (Prose) Vistas	Students will be able to: Remember: Pre independence era of royal families, theme and message of the chapter Understand: The character traits of the King, his motto of life and impact of prophecy in king's life Apply: The gained knowledge in real life situation and how the king lived and died just to challenge priest's prophecy Analyze: The character sketch of the king and his minister
Chapter No.3:	Deep Water (Prose), Flamingo	Students will be able to: Remember: Autobiographical element of the author, theme, message and the chronological events of the chapter in detail Understand: That childhood fears must never be treated lightly, if not tackled properly they make deep inroads in one's psychology Apply: The instances in real life and overcome any hesitation or fear and success can be achieved at point of time in the life (Douglas) Analyze: The situation of Douglas underwater and his attempts to come on the surface
Chapter No.	A Thing of Beauty (poem) Flamingo	Students will be able to: Remember: The theme and message of the poem Understand: The healing power of Nature and that it always give solace Apply: The contextual knowledge of the poem in the real life situation and living a worthy life Analyze: The importance of Nature and the bounties we have
Chapter No.3 :	Journey to the End of the Earth(Prose) Vistas	Students will be able to: Remember: The geological events during Gondwana land, flora and fauna of that time Understand: The importance of Antarctica region for the existence of human beings Apply: The information of the chapter in preserving and conserving polar regions to ultimately preserving Earth Analyze: The grave situation of climate impact and immediate steps to be taken by us
Writing Skills:	Notice and Job Application with resume and Letter to the Editor	Students will be able to: Remember: The format and structure Understand: The question to get the sender, receiver, and identify effective and non effective elements Apply: Writing skills in real life scenario for effective communication Analyze: The appropriate use of language
June	PERIODIC TEST-I	
	Chapter No. 4: The Rattrap (Prose) Flamingo	Students will be able to: Remember: The chronological events of the fairytale story and traits of all the characters Understand: The metaphorical representation of rattrap Apply: The message and the moral of the story in real life ; convincing power Analyze: The fact that every human being has an essential goodness that can be awakened through understanding and love
	Chapter No. 5 : Indigo (prose) Flamingo	Students will be able to: Remember: political and social scenario(British,

	July & August		sharecroppers),chronological events Understand: Gandhian philosophy, nonviolence, justice for oppressed Apply: that every movement can be made people's movement if there is unbreakable trust and faith. Analyze: valuing the contribution of ordinary people in the freedom struggle
		Chapter No.6 : Poets and Pancakes (prose) Flamingo	Students will be able to: Remember: the theme message and traits of the Subbu Understand: the structure of the chapter, and that the course of the events is not in a storyline Apply: To get the glimpses of office politics prevailing at every work place and learn to avoid it do your work sincerely Analyze: The various personalities in the chapter and that it's a small world
		Chapter No.4 : The Enemy (Prose) Vistas	Students will be able to: Remember: The theme message and traits of the Dr. Sadao Understand: The difference between a responsible citizen , true patriot and an ethical professionalist Apply: Personal and professional ethics are different but sometimes you have to rise above all as a human being Analyze: That choices shape us as an individual
		Chapter No 5. : On the Face of It (Prose) Vistas	Students will be able to: Remember: The characteristics of Derry and Lamb Understand: The pain of physical handicapped is far less than the sense of of alienation they feel and society can help Apply: Being mindful and give space, opportunities , love, care to disabled people to help in their inclusion Analyze: The pain, agony and challenges faced by disabled people
		Chapter No. : A Roadside Stand (poem) Flamingo	Students will be able to: Remember: Idea, theme and message of the poem Understand: The social division- poor and rich people Apply: the empathetic behavior with others but not to involve to the extent wherein you suffer at the end Analyze: The easy lives of city dwellers and hardships in the lives of rural people
	August	PERIODIC TEST-2	
		Chapter No. 7 : The Interview (Prose) Flamingo	Students will be able to: Remember: The various definitions of Interviews given by different poets Understand: The conversation and interview pattern Apply: The art of framing good questions to get the desirable answer and make people comfortable with your communication skills Analyze: The challenges faced by reporters or media people
	September	REVISION & TERM-I EXAMINATION	
Term -II	October	Writing Skills: Invitation (formal, informal and reply also), Report writing , Article Writing	Students will be able to: Remember: The various formats of formal and informal invitation writing and report writing Understand: The importance of crisp clear invitations and report writing Apply: The art of framing impressive invitations and reports Analyze: The challenges faced by reporters or media people

		Chapter No. 7 : The Interview (Prose) Flamingo	Students will be able to: Remember: The various definitions of Interviews given by different poets Understand: The conversation and interview pattern Apply: The art of framing good questions to get the desirable answer and make people comfortable with your communication skills Analyze: The challenges faced by reporters or media people
		Chapter No. 8: Going Places (Prose) Flamingo	Students will be able to: Remember: The theme, message and the incidents of the chapter in detail Understand: The strength of family bond, relationship and financial problems in a family Apply: The gained knowledge in differentiating between realistic and unrealistic dreams Analyze: The advantages and disadvantages of escapism, fantasy and hero worshipping
		Chapter No. 6 : Memories of Childhood (Prose) Vistas	Students will be able to: Remember: The setting of both the parts, social structure of the region and author's autobiographical elements Understand: The values like love, respect, honesty, patience, self-reliance are noticed by all Apply: To rise above prejudice and take initiative for yourself Analyze: The fact that injustice in any form cannot go unnoticed
		Chapter No. : Aunt Jennifer's Tigers (poem) Flamingo	Students will be able to: Remember: The theme, message and the incidents quoted by Aunt Jennifer Understand: The patriarchal society and emotional turmoil of a woman Apply: To provide equal opportunities and give emotional support to your partner at every thick and thin Analyze: Aunt Jennifer's desire to be strong, free, not to be afraid of anyone
	November	Revision of Syllabus for Pre-Board Examination	
	December	Pre-Board Examination	
	January	CBSE Practical and Internal Assessment	
	February & March	CBSE Board Examination	

Physics

Book Prescribed: NCERT			
	Months	Content	Learning Outcomes
Term -I		Chapter 1: Electric Charges and Fields	Students will be able to: Remember: Electric charge, Coulomb's law, conservation of charge Understand: The principle of superposition, concept of electric field, field lines, and continuous charge distribution Apply: Gauss's theorem to calculate the electric field due to various symmetrical charge distributions Analyze: The behaviour of electric field lines in different Situations

	March - April & May	Chapter 2: Electrostatic Potential and Capacitance	Students will be able to: Remember: Electric potential, potential difference, and capacitance Understand: Potential due to point charge, dipole, and system of charges; equipotential surfaces Apply: The gained knowledge to solve numerical problems on capacitors with/without dielectric Analyze: Electric potential energy of charge systems
		Chapter 3: Current Electricity	Students will be able to: Remember: Ohm's law, resistivity, conductivity Understand: Drift velocity, mobility, V-I characteristics Apply: Kirchhoff's rules and solve circuit problems, calculate power and energy Analyze: Internal resistance and temperature dependence of Resistors
		Chapter 4: Moving Charges and Magnetism	Remember: Oersted's experiment, Biot-Savart law, Ampere's law. Understand: Magnetic field concepts and force on moving charges. Apply: Concept of magnetic field for solenoids, circular loops, and current-carrying conductors. Analyze: Current loop as a magnetic dipole and torque on loop and functioning of galvanometer and its conversion into ammeter and voltmeter
	June	PERIODIC TEST-I	
	July & August	Chapter 5: Magnetism and Matter	Students will be able to: Remember: Key terms Magnetic dipole and magnetization Understand: The concept of field lines and temperature dependence Apply: Concept of torque on dipole and field due to bar magnet Analyze: Magnetization behaviour of Dia-, para-, ferro-magnetic materials
		Chapter 6: Electromagnetic Induction	Students will be able to: Remember: Define electromagnetic induction, Faraday's and Lenz's Laws Understand: Concepts of induced emf, current, self and mutual induction. Apply: Concepts of induced emf and magnetic flux to solve numerical problems
			Analyze: Variations of induced current in different settings and construct real-life models illustrating electromagnetic induction
		Chapter 7: Alternating Current	Students will be able to: Remember: Key points as alternating current, peak and RMS values Understand: The concept of impedance, reactance, resonance Apply: The gained knowledge to use phasor diagrams and formulas in LCR circuit analysis Analyze: Power factor and wattless current scenarios

Term -II		Chapter No. 8: Electromagnetic Waves	Students will be able to: Remember: The identification of EM spectrum types and uses Understand: The concept of displacement current, transverse wave nature Apply: The gained knowledge to match spectrum with applications in real world Analyze: Properties of EM radiation and assess spectrum ranges for medical and technical uses
	August	PERIODIC TEST-2	
		Chapter No. 12: Atoms	Students will be able to: Remember: Alpha particles, structure of the atom, and energy levels Understand: Rutherford's experiment and Bohr's model Apply: The gained knowledge to use the expressions for radius, velocity, and energy of an electron in the nth orbit Analyze: Hydrogen spectra using Bohr's theory
		Chapter No. 13: Nuclei	Students will be able to: Remember: Nuclear structure, fission, and fusion Understand: Mass-energy relation, mass defect, and binding energy Apply: The concepts of $E = mc^2$, mass defect and binding energy formula to solve problems Analyze: Binding energy curve and its implications and the role of nuclear forces
	September	REVISION & TERM-I EXAMINATION	
	October	Chapter 14: Semiconductor Electronics : Materials , Devices and Simple Circuits	Students will be able to: Remember: Definition of semiconductors, diodes, p-n junction Understand: Concept of energy bands, characteristics of forward and reversed biased condition Apply: The gained knowledge of diodes to use it as rectifiers Analyze: Materials based on conductivity and concept of doping in the formation of semiconductor devices
		Chapter 9: Ray Optics	Students will be able to: Remember: Definition of interference and diffraction Understand: Young's double-slit experiment Apply: Concept of fringe width for the interpretation of interference patterns and perform problem solving Analyze: Concept of wave fronts and characteristics of wave properties
		Chapter 10: Wave Optics	Students will be able to: Remember: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Understand: Proof of laws of reflection and refraction using Huygen's principle. Apply: Concept of Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only) Analyze: Concept of coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only) to solve problems.
		Chapter 11: Dual Nature of Radiation	Remember: Photoelectric effect and electron emission Understand: Properties of photons and de Broglie hypothesis

		and Matter	Apply: Einstein's theory of Photoelectric effect to do problem solving Analyze: Particle nature of light - 'Photon' and determine Planck's constant and work function
	November	Revision of Syllabus for Pre-Board Examination	
	December	Pre-Board Examination	
	January	CBSE Practical and Internal Assessment	
	February & March	CBSE Board Examination	

Chemistry

Book Prescribed: NCERT			
	Months	Content	Learning Outcomes
Term -I	March - April & May	Chapter No. 1 : Solutions	Students will be able to: Remember: The types of solutions and concentration terms Understand: Raoult's law and colligative properties Apply: The knowledge to solve numerical problems on molarity and depression in freezing point Analyse: Deviations from ideal behaviour
		Chapter No. :2: Electrochemistry	Students will be able to: Remember: The concept of oxidation, reduction, and cell terminology Understand: The working of galvanic and electrolytic cells Apply: The knowledge to calculate EMF and use Nernst equation. Analyse: Standard electrode potentials to predict reactions
		Chapter No. 3: Chemical Kinetics	Students will be able to: Remember: The rate of reaction and related terms Understand: Rate laws and order of reactions Apply: The knowledge to solve numerical using integrated rate equations Analyse: Graphs and reaction mechanisms
	June	PERIODIC TEST-I	
		Chapter No. 4 : The d- and f- Block Elements	Students will be able to: Remember: The list of d- and f-block elements and their positions Understand: The properties like variable oxidation states and color Apply: The identification of trends across the series and predict reactions Analyse: The transition and inner transition elements

Term - II	July & August	Chapter No. 5 : Coordination Compounds	Students will be able to: Remember: Define ligands, coordination number, and complex compounds. Understand: Explain IUPAC naming and bonding in complexes. Apply: Write formulas and structures of coordination compounds. Analyze: Differentiate isomers and predict stability.
		Chapter No. 6: Haloalkanes and Haloarenes	Students will be able to: Remember: The definitions haloalkanes, haloarenes, and their types Understand: The physical properties and nature of C–X bond Apply: The prediction of products of nucleophilic substitution reactions Analyze: The reactivity of different halogen compounds
	August	PERIODIC TEST-2	
		Chapter No. 7 : Alcohols, Phenols and Ethers	Students will be able to: Remember: The classification classify alcohols, phenols, and ethers Understand: The preparation and properties of compounds Apply: The prediction products of dehydration and substitution. Analyze: The acidity and reactivity across the group
	September	REVISION & TERM-I EXAMINATION	
	October	Chapter No. : 8 - Aldehydes, Ketones and Carboxylic Acids	Students will be able to: Remember: The identification and definition of carbonyl and carboxyl groups. Understand: The process of preparation and chemical properties Apply: The gained knowledge to predict outcomes of addition and oxidation reactions Analyze: Reactivity and acidity among the three groups
		Chapter No. : 9 - Amines	Students will be able to: Remember: Definition and classification of amines Understand: The structure, preparation, and basicity of amines Apply: The gained knowledge to predict reactions of amines with reagents Analyze: Primary, secondary, and tertiary amines
		Chapter No. : 10 - Biomolecules	Students will be able to: Remember: The types of biomolecules and their monomers Understand: The structure and functions of carbohydrates, proteins, and nucleic acids Apply: The gained knowledge to classify biomolecules based on function and structure Analyze: The difference between types of sugars, amino acids, and enzymes
	November	Revision of Syllabus for Pre-Board Examination	
	December	Pre-Board Examination	
	January	CBSE Practical and Internal Assessment	
	February & March	CBSE Board Examination	

Biology

Book Prescribed: NCERT

	Months	Content	Learning Outcomes
Term - I	March - April & May	Chapter No. 1 ; Sexual reproduction in flowering plants	Students will be able to: Remember: The structure of stamen, pistil .and different types of pollination, : autogamy,geitonogamy, xenogamy Understand: The structure of T.S. anther, anatropous ovule, process of microsporogenesis, megasporogenesis, artificial hybridization, double fertilization, post-fertilization events, apomixis, parthenocarpy and polyembryony Apply: The gained knowledge to prepare temporary slide of pollen germination and to understand plant breeding and crop

			improvement Analyze: The different types of pollination with their advantages and evaluate the role of artificial hybridization in plant breeding
		Chapter No. 2: Human reproduction	Students will be able to: Remember: The male and female reproductive systems, the role of their primary sex organs, accessory glands, accesory ducts and external genitalia Understand: The processes of spermatogenesis, oogenesis, menstrual cycle, fertilization, implantation and parturition Apply: The gained knowledge to identify slides of T.S. testis, T.S. ovaries and T.S. blastula and understand reproductive health and fertility Analyze: The difference between spermatogenesis and oogenesis. and the importance of reproductive health in maintaining overall Health
		Chapter No. 3 : Reproductive health	Students will be able to: Remember: The meaning of reproductive health, problems faced and strategies to solve reproductive health problems Understand: The different methods of contraception, MTP, causes, symptoms, and treatment of STIs, and methods to have children like IVF, ZIFT, GIFT, IUT, ICSI, AI, IUI Apply: The gained knowledge of reproductive health to understand the impact of reproductive health issues on individuals and communities Analyze: The impact of reproductive health issues on individuals and communities and evaluate the importance of reproductive health education and awareness
		Chapter No. 4 : Principles of Inheritance and Variation	Students will be able to: Remember: The definition of inheritance and variation and Mendel's laws of inheritance Understand: The monohybrid and dihybrid crosses, evaluate phenotypic and genotypic ratio in different generations, incomplete dominance, co-dominance, sex- determination, genetic and chromosomal disorders Apply: The gained knowledge to predict the probability of different genotypes and phenotypes and to understand the inheritance of traits in humans Analyze: The different inheritance patterns and the impact of genetic variation on evolution and adaptation

	Chapter No.5 : Molecular Basis of Inheritance	Students will be able to: Remember: The structure and function of DNA and RNA Understand: The molecular mechanisms of DNA replication, Transcription and Translation, Genetic code, mutations, goals and objectives of Human Genome project, Regulation of gene expression- lac operon, DNA fingerprinting Apply: The gained knowledge of DNA structure and replication to understand genetic inheritance Analyze: The impact of genetic mutations on gene expression and protein function
June	PERIODIC TEST-I	
July & August	Chapter No.6 : Evolution	Students will be able to: Remember: The meaning evolution and its significance in biology.

		Understand: The Miller's experiment, homologous and analogous organs, Hardy-Weinberg principle, adaptive radiation, natural selection and human evolution. Apply: The gained knowledge of evolutionary principles to understand the adaptation of organisms to their environments and the evolutionary relationships between organisms. Analyze: Different theories of evolution and evaluate The importance of evolution in understanding the complexity of life on Earth.
	Chapter No.7 : Human Health and diseases	Students will be able to: Remember: The different organisms causing diseases in humans with their symptoms. Understand: The difference between innate, acquired immunity , active, passive immunity, autoimmunity ;the structure and function of antibody;Lymphoid organs, types, causes, diagnosis and treatment for Cancer, AIDS and the effects of different types of drugs on our body in detail. Apply: The gained knowledge to understand the importance of early detection and treatment. Analyze: The impact of lifestyle choices on human health and the importance of immunization in preventing diseases.
	Chapter No.8 : Microbes in Human Welfare	Students will be able to: Remember: The different types of microbes and their roles in human welfare Understand: The use of different microbes in industrial fermentation, household, sewage treatment, biogas production , as biocontrol agents, as fertilizers, as chemicals, enzymes and bioactive molecules.. Apply: The gained knowledge to understand their role in food production and preservation,its applications in various industriesand their importance in environmental management. Analyze: The different types of microbes and their applications and their impact of microbes on human health and the environment.

		Chapter No.9 : Biotechnology-Principles and Variation	Students will be able to: Remember: The definition of key terms related to biotechnology,like Genetic engineering, Bioprocess engineering, Recombinant DNA technology, structure of DNA and its function Understand: The process of recombinant DNA technology, separation by gel electrophoresis, cloning vectors, amplification of gene of interest using PCR , upscaling by the use of Bioreactors and processing of gene products. Apply: The gained knowledge of biotechnology to understand its applications in various industries and evaluate its impact on society and the environment. Analyze: The different biotechnology applications and their potential benefits and risks.
	August		PERIODIC TEST-2
		Chapter No. 10: Biotechnology and its applications	Students will be able to: Remember: The concept of Genetic engineering, Recombinant DNA technology and the applications of biotechnology in various fields like medicine, agriculture, industry. Understand: Explain the applications of biotechnology in production of insulin, gene therapy; genetically modified

			organisms and plants, concept of RNA interference, transgenes, cry genes, biopiracy and biosafety. Apply: The gained knowledge Use knowledge of genetic engineering to understand its potential applications in medicine, agriculture, and industry and develop solutions to real-world problems. Analyze: The impact of biotechnology on society and the environment.and evaluate the ethics of biotechnology applications and their potential consequences.
	September	REVISION & TERM-I EXAMINATION	

Term –II	October	Chapter No. 11: Organisms and Populations	Students will be able to: Remember: The different types of population interactions and the different types of age pyramids Understand: Mutualism, Commensalism, Ammensalism, Predation, Parasitism, Competition and the importance of population interactions in shaping ecosystem dynamics Apply: The gained knowledge of population interactions to develop strategies for conservation and management of ecosystems Analyze: The impact of population interactions on population growth, distribution, and abundance and evaluate the importance of population interactions in maintaining ecosystem balance and stability
		Chapter No. 12: Ecosystem	Students will be able to: Remember: The structure and function of different types of ecosystems Understand: The concept of primary and secondary productivity, steps of decomposition, the pyramids of number, biomass, energy in the ecosystems and the importance of Lindeman's 10% law in understanding energy flow in ecosystems Apply: The gained knowledge of ecosystem structure and function to understand the importance of conservation and management and understand the trophic structure of ecosystem Analyze: The impact of human activities on ecosystem balance and

			stability and evaluate the importance of ecosystem conservation and management.
		Chapter No. 13: Biodiversity and Conservation	Students will be able to: Remember: The importance of biodiversity and the causes of loss of biodiversity Understand: The different types of biodiversity, patterns of biodiversity, the importance of species diversity in maintaining ecosystem health, causes of its loss and means to conserve it Apply: The gained knowledge of species-area relationship graph to predict species richness and design conservation strategies for maintaining biodiversity Analyze: The importance of biodiversity in ecosystem functioning and evaluating the effectiveness of different conservation strategies
	November	Revision of Syllabus for Pre-Board Examination	
	December	Pre-Board Examination	
	January	CBSE Practical and Internal Assessment	
	February & March	CBSE Board Examination	

Mathematics(041)

Book Prescribed: NCERT			
	Months	Content	Learning Outcomes
TERM-I		Chapter No. 3 Matrices	Students will be able to: Remember: The concept of matrices, Operations on matrices and its types : zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices Understand: The properties of addition, multiplication of matrices and scalar multiplication Apply: Addition and multiplication of matrices and scalar multiplication to real life problems Analyze: Non- commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2) ; Invertible matrices and proof of the uniqueness of inverse, if it exists
	March - April & May	Chapter No. 4 Determinants	Students will be able to: Remember: The key terms : Determinant of a square matrix, minors and co-factors Understand: The method of finding the adjoint and inverse of a square matrix and number of solutions of system of linear equations ; Consistency and inconsistency of solutions Apply: The acquired knowledge to solve the system of linear equations in two or three variables (having unique solution) using inverse of a matrix Analyze: Adjoint and inverse of a square matrix.

		Chapter No.1 Relations and Functions	Students will be able to: Remember: Types of relations: reflexive, symmetric, transitive and equivalence relations Understand: Equivalence relations and Bijective mappings Apply: Apply: The gained knowledge to identify Equivalence relations and Bijective mappings Analyze: Different types of relations and functions
		Chapter No.2 Inverse Trigonometric Functions	Students will be able to: Remember: Inverse trigonometric functions , their domain and range Understand: The concept of Inverse Trigonometric Functions and their relationship to trigonometric functions Apply: The gained knowledge to solve problems in trigonometry and geometry

			Analyze: The restrictions on the domain and range of inverse trigonometric functions
	June	PERIODIC TEST-I	
		Chapter No 5. : Continuity and differentiability	Students will be able to: Remember: The concept of continuity and differentiability, chain rule, derivative of composite functions, derivatives of inverse trigonometric functions Understand: Derivative of implicit functions and the concept of exponential and logarithmic functions Apply: Differentiation rules to find derivatives of functions, including Trigonometric functions, Exponential and logarithmic functions, Composite functions Analyze: Functions for continuity and differentiability and identifying points of discontinuity
	July & August	Chapter No:6 Application of derivatives	Students will be able to: Remember: Key terms as rate of change, increasing and decreasing, maxima and minima Understand: The concept of rate of change and its relation to derivatives and the use of derivatives in finding maxima and minima Apply: The gained knowledge of derivatives to find equations of tangent and normal lines, and intervals of increasing and decreasing functions Analyze: Various functions using derivatives to identify- Critical points, Maxima and minima, Intervals of concavity
	August	PERIODIC TEST-2	
		Chapter No:7 Integrals: (Indefinite Integration)	Students will be able to: Remember: Key terms related to integration (indefinite integral, definite integral) Understand: Integration as inverse process of differentiation Apply: The gained knowledge to solve problems of Integration of variety of functions by substitution method, partial fractions and integration by parts Analyze: Different integration techniques and their applications
	September	REVISION & TERM-I EXAMINATION	

TERM-II	October	Chapter No.7: Integrals (Definite Integrals)	Students will be able to: Remember: Properties of definite integrals Understand : Relation between definite and indefinite integrals Apply: The gained knowledge to apply various techniques to evaluate definite integrals Analyze: Techniques for evaluating definite integrals
		Chapter No.8 : Application of Integrals	Students will be able to: Remember: Key concepts related to application of integrals Understand: How integrals are used to solve real-world problems Apply: The gained knowledge in finding the area under simple curves, especially lines, circles/ parabolas/ellipses Analyze: Area under different curves
		Chapter No.9 : Differential Equations	Students will be able to: Remember: Definition, order and degree, general and particular solutions of a differential equation Understand: General and particular solutions of a differential equation Apply: Various techniques to solve differential equations Analyze: Solutions of differential equations in the context of real-world problems
		Chapter No.12: Linear Programming	Students will be able to: Remember: Definition of linear programming, objective function, constraints and feasible region Understand: How to formulate linear programming problems and the graphical method for solving linear programming problems Apply: The gained knowledge to apply various methods to solve linear programming problems Analyze: Feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial Constraints)
		Chapter No:11: Three Dimensional Geometry	Students will be able to: Remember: Direction cosines and direction ratios of a line joining two points Understand: Cartesian equation and vector equation of a line, skew lines Apply: The gained knowledge to find angle between two lines Analyze: Shortest distance between two lines
		Chapter No. 10: Vector Algebra	Students will be able to: Remember: Vectors and scalars, magnitude and direction of a vector Understand: Direction cosines and direction ratios of a vector, Types of vectors, position vector of a point, negative of a vector and components of a vector Apply: The gained knowledge to solve problems related to addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio Analyze: The difference between dot, cross and scalar triple product of the vectors
		Chapter No.13: Probability	Students will be able to: Remember: Key concepts such as independence of events, multiplication rule and Bayes' theorem Understand: The concept of conditional probability Apply: The gained knowledge to calculate the probability of event A when event B has already occurred

		Analyze: The impact of probability of one event on the probability of another event
	November	Revision of Syllabus for Pre-Board Examination
	December	Pre-Board Examination
	January	CBSE Practical and Internal Assessment
	February & March	CBSE Board Examination

Computer Science

Book Prescribed: Computer Science with Python (Sumita Arora - Dhanpat Rai Pub.)

	Months	Content	Learning Outcomes
Term – I	March - April & May	Chapter No. 8 : Computer network- I	Students will be able to: Remember: Fundamentals requirements and application of Networking Understand: Explain how data is transferred in a network. Apply: Demonstrate how to connect computers in a simple network. Analyze: Compare advantages and disadvantages of different network topologies.

		Chapter No. 9: Computer network- II	Students will be able to: Remember: Define networking devices such as router, switch, hub, modem, etc Understand: Illustrate how a basic network setup works. Apply: Apply appropriate protocols for specific network tasks (e.g., using FTP to transfer files).Set up a basic wireless network using a router and wireless devices. Analyze: Evaluate the suitability of various network protocols .
		Chapter No. 1 : Python Revision Tour -I	Students will be able to: Remember: Token, Flow of control and looping statements Understand: Describe the difference between entry-controlled & count-controlled loops, use of break and continue within loops and execution flow of conditional statements. Apply: Solve simple real-life problems using loops. Analyze: Debug and correct logic errors in programs involving loops or conditions. Trace the flow of execution in nested conditional or looping structures.
		Chapter No. 2: Python Revision Tour -II	Students will be able to: Remember: List, Tuple, strings, tuples, and dictionaries in Python and built-in functions. Understand: Explain how dictionaries store data in key-value pairs. Python code that uses loops to access elements in lists, tuples, or dictionaries. Apply: Python programs to perform basic operations (add, delete, modify) on lists, tuples, and dictionaries. Analyze: A given piece of code and predict the output or detect logical errors.
	June		PERIODIC TEST-I

July & August	Chapter No. 3: Working with Function	Students will be able to: Remember: key terms related to functions such as function, parameter, argument, return value, etc. List different types of functions (e.g., built-in vs. user-defined). Recall the syntax for defining and calling a function in a programming language (e.g., Python, Java). Understand: how parameters and arguments work in function calls. Apply: Write simple functions to perform specific tasks (e.g., add two numbers, check even/odd, calculate area) Analyze: Identify errors or issues in function definitions or function calls. Break a complex problem into smaller sub-problems using functions.
	Chapter No. 4: Using Python Libraries	Students will be able to: Remember: What a Python library or module is. Recall common libraries such as math, random, and date time. Understand: Purpose of using libraries in Python programming. Apply: Use specific functions from libraries to solve problems (e.g., generating random numbers, performing mathematical calculations). Write simple programs using multiple library functions together. Analyze: Examine code to determine how library functions are being used.
	Chapter No. 10; Relational Databases	Students will be able to: Remember: key terms such as database, table, record, field, primary key, and foreign key. List common relational database management systems (RDBMS), e.g., MySQL, SQLite, PostgreSQL. Recall SQL commands like SELECT, INSERT, UPDATE, DELETE. Understand: Explain the structure of a relational database and how data is stored in tables. Apply: Create and modify simple relational database tables using

		SQL. Write and execute SQL queries to insert, retrieve, and manipulate data. Use primary keys and foreign keys to define relationships between tables. Analyze: Identify the relationship type (one-to-one, one-to-many, many-to-many) between tables.
	Chapter No. 12; Table Creation and data manipulation Commands	Students will be able to: Remember: SQL and its purpose. List common Data Definition Language (DDL) and Data Manipulation Language (DML) commands. Interpret the syntax of commands like CREATE TABLE, INSERT, UPDATE, DELETE, and SELECT. Understand: the difference between DDL and DML. Apply: Retrieve data using the SELECT command with different clauses (e.g., WHERE, ORDER BY). Analyze: The impact of constraints like PRIMARY KEY, NOT NULL, and UNIQUE on data integrity.
	Chapter No. 11; Simple Queries in SQL	Students will be able to: Remember: List basic SQL commands (e.g., SELECT, FROM, WHERE, ORDER BY, DISTINCT) Understand: Explain how the SELECT statement retrieves data from a database Apply: Write basic SQL queries to retrieve specific data from a table. Analyze: Conditions in WHERE clause to filter results appropriately.

		Chapter No. 13: Grouping Records , Joins in SQL	Students will be able to: Remember: The purpose of GROUP BY, HAVING, and different types of SQL joins (INNER, LEFT, RIGHT, FULL). Understand: Interpret the difference between WHERE and HAVING clauses. Distinguish among the various types of joins and when to use each. Interpret the results of grouped queries and joined tables. Apply: Solve real-life problems involving data summarization and table relationships. Analyze: Meaning of query performance and optimize SQL statements for better results.
	August	PERIODIC TEST-2	
	September	REVISION & TERM-I EXAMINATION	
Term 2	October	Chapter No. :5 File Handling	Students will be able to: Remember: File handling and its importance in programming and different modes of file access (read, write, append, etc.) Understand: How file input and output operations work and describe the differences between text and binary files Apply: The gained knowledge for file handling to store and retrieve data in real-world scenarios (e.g., reading from a data file) Analyze: Programs of binary and text files
		Chapter No. :6 Exception Handling in Python	Students will be able to: Remember: Exceptions and error types in Python Understand: The flow of control in a try-except block Apply: The gained knowledge to write Python code using try-except blocks to handle exceptions Analyze: Error identification in Python code and suggest appropriate exception handling mechanisms
		Chapter No. :7 Data Structure	Students will be able to: Remember: The terms push, pop, peek, and LIFO (Last In, First Out) Understand: The working principle of a stack Apply: The gained knowledge to implement stack operations using Python lists Analyze: Stack-based implementations and trace the order of execution
		Chapter No. :14 Interface Python with MYSQL	Students will be able to: Remember: Key terms such as MySQL, database, table, cursor, connection, and query and identify Python libraries/modules used for MySQL connectivity (e.g., mysql.connector) Understand: The process of connecting Python with a MySQL database Apply: The gained knowledge to establish a connection between Python and MySQL using mysql.connector Analyze: Different methods of executing queries and retrieving results e.g., fetchone(), fetchall()
	November	Revision of Syllabus for Pre-Board Examination	
	December	Pre-Board Examination	
	January	CBSE Practical and Internal Assessment	
	February & March	CBSE Board Examination	

Physical Education

Book Prescribed: S.P Book			
	Months	Content	Learning Outcomes
Term – I	March - April & May	UNIT-1 Management of sporting events	Students will be able to: Remember: Key terms related to event management; Recall different types of sporting events and the stages of event planning Understand: The principles of event management within the context of sports and connection between sport, culture, and community development through events Apply: The gained knowledge to use management principles to design an organizational chart for a sports event ; apply risk management techniques to real-life sports scenarios Analyze: The effectiveness of past sporting events in terms of logistics, audience engagement, and media coverage and identify challenges in managing sporting events and propose solutions
		UNIT-2 Children and Women in Sports	Students will be able to: Remember: Policies and programs that support children and women in sports and define key terms related to gender equity and youth participation in sports Understand: The physical, psychological, and social benefits of sports for children and women and the developmental considerations in training children in sports Apply: Gained knowledge to design a basic training schedule tailored for children or female athletes and apply principles of inclusivity and safety in planning physical activities Analyze: The impact of social, cultural, and economic factors on women’s involvement in sports and evaluate the effectiveness of government policies or school programs promoting sports among children and women
		UNIT-10 Training in sports	Students will be able to: Remember: The concept of term training in the context of sports, different types of training and basic training principles Understand: The objectives and importance of training in enhancing sports performance and the role of warm-up, cool-down, and recovery in training sessions Apply: The gained knowledge to design a basic weekly training plan for an athlete in a specific sport and demonstrate proper techniques for basic strength or endurance exercises Analyze: The common training errors or injuries , the training needs of athletes from different sports and the effectiveness of a given training plan using performance outcomes.
	June	PERIODIC TEST-I	
	July & August	UNIT-4 Physical education and sports for CWSN (Children with special needs -divyang)	Students will be able to: Remember: Meaning of CWSN and Divyang, list types of disabilities, recall organizations like Paralympics and Special Olympics, and name adapted sports for CWSN. Understand: The importance of inclusion in sports for CWSN, describe physical activity benefits, understand adapted education needs, and recognize the roles of schools, teachers, and families. Apply: Inclusive activities for children of all abilities, modify games for accessibility, demonstrate empathy and support, and promote team spirit and acceptance in integrated classes. Analyze: Compare traditional and inclusive physical education, analyze barriers for CWSN, evaluate adapted sports’ role in inclusion, and reflect on successful CWSN athletes and programs.

		UNIT-5 Sports and Nutrition	Students will be able to: Remember: Meaning of nutrition and its role in sports, list essential nutrients and their sources, explain hydration importance, and identify common dietary supplements used by athletes. Understand: How nutrition affects athletic performance, detailing how carbohydrates, proteins, fats, and hydration support energy, muscle repair, endurance, and recovery through a balanced diet. Apply: Tailored nutritional and hydration plans for athletes, adjusting dietary strategies and supplements to support performance goals before, during, and after exercise. Analyze: Compare sports nutrition strategies, evaluate poor nutrition's impact, analyze diet adjustments for training and recovery, and assess risks and benefits of dietary supplements.
		UNIT-6 Test and measurement in sports	Students will be able to: Remember: Meaning of test, measurement, and evaluation in sports, recall testing importance, list common sports tests, and identify basic fitness components like strength, endurance, flexibility, speed, and agility. Understand: The purpose of fitness and skill tests, how results assess strengths and weaknesses, understand test validity and reliability, and interpret scores against standards. Apply: The fitness tests following proper methods and protocols, accurately record and evaluate results. Use test outcomes to design or modify training programs with techniques suited to the sport or goal. Analyze: Compare results of different tests to evaluate overall fitness and analyze their relation to sports performance. Evaluate test suitability for particular sports or groups and identify factors influencing test outcomes.
		UNIT-7 Physiology and injuries in sports	Students will be able to: Remember: Meaning of physiology, sports injuries, and key terms, and list major injury types such as soft tissue, hard tissue, and overuse injuries. Recall body systems involved in physical activity and identify basic first aid principles for common sports injuries. Understand: The physiological responses to exercise and understand the causes and symptoms of different types of injuries. Describe the body's recovery process and the importance of preventive measures such as warm-ups, cool-downs, and proper technique Apply: First aid techniques for minor injuries and demonstrate warm-up and cool-down exercises to prevent injuries. Use knowledge of body systems to manage fatigue and recovery, and recommend safe practices and equipment to minimize injury risk. Analyze: Compare acute versus chronic injuries and their effects on performance. Analyze causes such as improper technique and overtraining, evaluate physiological impacts on body systems, and assess injury-prone areas in sports with risk reduction suggestions.
	August	PERIODIC TEST-2	
Term II	September	REVISION & TERM-I EXAMINATION	
	October	Unit-3 Yoga as preventing measure for lifestyle disease	Students will be able to: Remember: Key terms - Lifestyle diseases, preventive yoga asanas, sedentary lifestyles and yogic practices Understand: How yoga helps in preventing lifestyle-related diseases, physiological and psychological benefits of regular yoga practice Apply: The gained knowledge to demonstrate specific yoga

			asanas and yogic principles that help in managing time, diet, stress levels and prevent common lifestyle disorders Analyze: The effectiveness of yoga with other forms of exercise in preventing diseases and the role of yoga in public health and wellness initiatives
		Unit-8 Biomechanics and sports	Students will be able to: Remember: Basic terms - Motion, force, equilibrium, and friction, biomechanics and its importance in sports, list types of movements (linear, angular, and general motion) and the laws of motion relevant to physical activities Understand: How biomechanics improves athletic performance and how forces act on the human body during movement; the relationship between stability and balance in sports and the role of friction and gravity in different sports scenarios Apply: The gained knowledge to use the concept of center of gravity and base of support in balance-related sports and demonstrate correct body posture and movement using biomechanical principles Analyze: How biomechanical principles reduce the risk of injury and break down complex movements into simpler biomechanical components
		UNIT-9 Psychology and sports	Students will be able to: Remember: Key terms such as motivation, personality, and mental preparation and list types of motivation Understand: The impact of motivation and personality on sports performance and the relationship between psychological state and performance Apply: Motivation techniques to improve individual or team performance and use concentration and relaxation strategies in sports situations Analyze: How personality types affect team dynamics and individual performance and examine the role of psychology in managing stress and pressure during competitions
	November	Revision of Syllabus for Pre-Board Examination	
	December	Pre-Board Examination	
	January	CBSE Practical and Internal Assessment	
	February & March	CBSE Board Examination	

Early Childhood Care and Education

Book Prescribed: NCERT			
	Months	Content	Learning Outcomes
Term – I	March - April & May	Unit I Communication Skills	Students will be able to: Remember: The key components of effective communication Understand: The process and importance of communication skills Apply: Active listening and use appropriate communication techniques in group discussions Analyze: Real-life scenarios to identify communication gaps and suggest improvements
		Unit I Foundations of Child Development	Students will be able to: Remember: Important terms such as growth, maturation, and development Understand: The major factors influencing child development (heredity, environment, nutrition, etc.) Apply: The acquired knowledge to observe and record child behavior to identify developmental milestones Analyze: Case studies to identify delays or advancements in development
		Unit: II Self-Management Skills	Students will be able to: Remember: The meaning of terms like self-discipline, punctuality, self-motivation, and organizational skills. Understand: How good self-management influences a caregiver's efficiency, behavior, and relationships with children, parents, and colleagues Apply: Self-motivation and goal-setting skills while planning a class activity or maintaining a routine Analyze: How poor self-management may affect classroom behavior, children's learning, or teamwork
	June	PERIODIC TEST-I	
	July &	Unit II Educational Thought of Key Theorists and Pioneers	Students will be able to: Remember: key theorists & pioneers educational ideas with the respective pioneers. Understand: The core principles of each theorist's approach to early childhood education. Apply: the teachings of Indian pioneers (like Gandhi or Gijubhai) in organizing culturally relevant learning experiences. Analyze: The relevance of each theorist's philosophy in today's early childhood care system.
		Unit III : Ch- Developmentally Appropriate Activities for Holistic Development	Students will be able to: Remember: the key domains of development (physical, cognitive, social, emotional, and language). Understand: the concept of holistic development and different areas of a child's growth. Apply: a simple activity plan targeting one or more developmental domains. Analyze: different activities based on the developmental needs they fulfill.

	August	Unit IV: Ch- Fostering Socio Emotional Competence in Children	Students will be able to: Remember: the key components of socio-emotional competence (e.g., self-awareness, empathy, emotional regulation, social skills). Understand: the importance of socio-emotional development in early years. Apply: techniques like positive reinforcement, emotion labeling, and active listening in real or simulated classroom settings. Analyze: the effectiveness of different classroom strategies for fostering emotional well-being.
		Unit III : ICT Skills	Students will be able to: Remember: basic ICT tools and terms (e.g., hardware, software, internet, email). Understand: the function of different ICT tools like MS Word, Excel, and presentation software. Apply: basic formatting tools in word processing software. Analyze: the effectiveness of different ICT tools for specific educational purposes.
	August	PERIODIC TEST-2	
	September	REVISION & TERM-I EXAMINATION	
Term -II	October	Unit V. : Creating Conducive Learning Environment	Students will be able to: Remember: Elements of an effective early childhood classroom (e.g., safety, routine, inclusivity, materials). Understand: The importance of physical, emotional, and social aspects of a positive learning environment. Apply: Classroom management techniques and routines that support learning. Analyze: Classroom scenarios and identify barriers to a conducive learning environment.
		Unit IV : Entrepreneurship Skills	Students will be able to: Remember: Entrepreneurship and key terms related to it (e.g., startup, business plan, market research). Understand: The importance of entrepreneurship in economic and social development. Apply: A basic business plan, including goals, target market, and products or services. Analyze: Business opportunities and identify potential risks and rewards.
		Unit V: Green Skills	Students will be able to: Remember: The importance of environmental conservation and eco-friendly practices. Understand: The connection between business practices and environmental impact. Apply: Eco-friendly practices in daily life (e.g., recycling, energy conservation). Analyze: The effectiveness of different green technologies or sustainable practices.
	November	Revision of Syllabus for Pre-Board Examination	
	December	Pre-Board Examination	
	January	CBSE Practical and Internal Assessment	
	February & March	CBSE Board Examination	

Library & Information Science

Book Prescribed: CBSE			
	Months	Content	Learning Outcomes
TERM-I	March - April & May	Chapter No. : 1 Communication Skills IV (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 Management	Students will be able to: Remember: The fundamental facts and concepts related to library operations Understand: The concept of library management and stock verification Apply: The gained knowledge in practical or simulated tasks Analyze: The challenges faced in the management of library such as system break down, stock discrepancy and the ways to resolve those
		Chapter No. : Self-Management Skills-IV	Students will be able to: Remember: The basic facts, definitions, and concepts related to self-management Understand: The importance of self motivation and self management Apply: The techniques of self management in daily life situations Analyze: The complex behavior patterns or problems to understand causes and effects
	June	PERIODIC TEST-I	
	July & August	Chapter No. : Organization of Library Resources: Advanced	Students will be able to: Remember: The key concepts and terminology related to organizing library resources. Understand: The purpose and function of organizing systems in libraries. Apply: The knowledge in real-world or simulated cataloging and classification tasks. Analyze: The understanding to break down complex cataloging/classification processes and evaluate them.
		Chapter No. : Library and Information Services	Students will be able to: Remember: Key definitions "reference services," "current awareness service (CAS)," and "selective dissemination of information (SDI)." Understand: The concepts and interpret the purpose of services. Apply: The knowledge in practical scenarios involving information services Analyze: Break down systems/services and evaluate effectiveness.
		Chapter No. : ICT Skills-IV	Students will be able to: Remember: basic ICT tools and terms (e.g., hardware, software, internet, email). Understand: the function of different ICT tools like MS Word, Excel, and presentation software. Apply: basic formatting tools in word processing software. Analyze: the effectiveness of different ICT tools for specific educational purposes.
	August	PERIODIC TEST-2	
	September	REVISION & TERM-I EXAMINATION	

TERM-II	October	Chapter No. : Entrepreneurial Skills-IV	Students will be able to: Remember: The key concepts, definitions, and terminology related to entrepreneurship Understand: The entrepreneurial principles and strategies Apply: The entrepreneurial knowledge in real-life or simulated business scenarios Analyze: The components of entrepreneurial practices
		Chapter No.: Green Skills-IV	Students will be able to: Remember: Environmental concepts and sustainability practices Understand: The importance and concepts behind green practices Apply: The gained knowledge to use green skills in real-life scenarios or tasks Analyze: Environmental practices and their outcomes
		Chapter No. : Computer Application in Libraries : Advanced	Students will be able to: Remember: Common software applications used in libraries (e.g. Science Koha, DSpace) Understand: Comprehension of ICT concepts and how tools function Apply: ICT tools and skills to perform tasks or solve problems Analyze: ICT-related processes or systems for better understanding and decision-making.
		Chapter No. :: Communication Skills	Students will be able to: Remember: Basic concepts and components of communication Languages Understand: How communication works and the importance of clarity and tone Apply: The gained knowledge to use communication skills in practical, real-world settings Analyze: Communication scenarios and assess effectiveness
	November	Revision of Syllabus for Pre-Board Examination	
	December	Pre-Board Examination	
	January	CBSE Practical and Internal Assessment	
	February & March	CBSE Board Examination	

Marketing

Book Prescribed: CBSE Notes			
	Months	Content	Learning Outcomes
TERM-I	March - April & May	Chapter No. : 1 Communication Skills IV (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
		Unit - Product	Students will be able to: Remember: The definition of product, product mix, and types of products; Features of consumer goods and industrial goods; Stages of the Product Life Cycle (PLC) Understand: The concept and importance of branding, labelling, and packaging; The role of product innovation in marketing success Apply: The acquired knowledge to classify real-world products into consumer and industrial goods and design a basic product portfolio for a new company

			Analyze: The product strategies of two competing brands; Reasons behind the success or failure of products and the impact of packaging and labelling on consumer choice
		Chapter No. : Self-Management Skills-IV	Students will be able to: Remember: The basic facts, definitions, and concepts related to self-management Understand: The importance of self motivation and self management Apply: The techniques of self management in daily life situations Analyze: The complex behavior patterns or problems to understand causes and effects
	June	PERIODIC TEST-I	
	July & August	Unit - Price	Students will be able to: Remember: the definition of price, pricing objectives, and strategies. Recall types of pricing methods (Cost-plus, Competitive pricing). List factors affecting pricing decisions. Understand: how pricing affects market demand and positioning. Differentiation between penetration pricing and skimming pricing. Understand the psychological factors influencing pricing decisions. Apply: the gained knowledge to create a pricing plan for an imaginary product. Calculate the selling price based on cost and desired profit margin. Suggest pricing changes during different stages of product life cycle. Analyze: Compare success stories based on innovative pricing strategies. Evaluate how competition affects pricing flexibility. Analyze the effect of discount pricing on customer loyalty.
		Unit - Place	Students will be able to: Remember: the definition of channels of distribution. The List of types of intermediaries (Wholesaler, Retailer, Agent). Recall functions of distribution channels. Understand: the importance of physical distribution and logistics. Understand direct vs. indirect selling modes. Differentiate between online and offline distribution methods. Apply: the acquired knowledge to plan for a newly launched product. Identify the most suitable channel for different types of goods. Create a flow diagram of a supply chain network. Analyze: Compare distribution efficiency between traditional and digital modes. Evaluate logistics cost impact on pricing and profitability.
		Chapter No. : ICT Skills-IV	Students will be able to: Remember: Common software applications used in libraries (e.g. Koha, DSpace) Understand: Comprehension of ICT concepts and how tools function Apply: ICT tools and skills to perform tasks or solve problems Analyze: ICT-related processes or systems for better understanding and decision-making.
	August	PERIODIC TEST-2	
	September	REVISION & TERM-I EXAMINATION	
TERM-II	October	Unit - 4 Promotion	Students will be able to: Remember: The definition of promotion and elements of promotion mix., features of advertising, sales promotion, public Relation, and personal selling Understand: The difference between various promotional tools and the importance of integrated marketing communication

			(IMC) Apply: The gained knowledge to create an advertisement or promotional poster and develop a promotional mix for a given product Analyze: The effectiveness of different promotional tools for B2B and B2C businesses and how social media changed traditional advertising models
		Unit - 5 Emerging Trends in Marketing	Students will be able to: Remember: The definition of digital marketing, social media marketing, and green marketing and recall key platforms (Google, Facebook, Instagram) used in digital marketing Understand: How technology is reshaping marketing practices, the significance of sustainable marketing initiatives and the role of consumer awareness in green marketing Apply: The gained knowledge to create a sample social media marketing campaign and an action plan for green product promotion Analyze: Traditional marketing with digital marketing based on cost and reach and the shift in consumer preferences towards sustainable brands
		Unit IV : Entrepreneurship Skills	Students will be able to: Remember: Entrepreneurship and key terms related to it (e.g., startup, business plan, market research) Understand: The importance of entrepreneurship in economic and social development Apply: A basic business plan, including goals, target market, and products or services Analyze: Business opportunities and identify potential risks and rewards
		Unit V. : Green Skills	Students will be able to: Remember: The importance of environmental conservation and eco-friendly practices Understand: The connection between business practices and environmental impact Apply: Eco-friendly practices in daily life (e.g., recycling, energy conservation) Analyze: The effectiveness of different green technologies or sustainable practices
	November	Revision of Syllabus for Pre-Board Examination	
	December	Pre-Board Examination	
	January	CBSE Practical and Internal Assessment	
	February & March	CBSE Board Examination	

Psychology

Book Prescribed: NCERT			
	Months	Content	Learning Outcomes
TERM-I		Chapter No. :1 Variations in Psychological attributes	Students will be able to: Remember: Psychological attributes and theories of intelligence Understand: The difference between aptitude ,interest and intelligence and interpret the meaning behind IQ scores and standardized testing Apply: The gained knowledge to describe real-life behaviours and understand their own strengths Analyze: How individual differences are shaped by biological as well as environmental influences and how cultural differences affect psychological testing

	March - April & May	Chapter No. : 2 Self and Personality	Students will be able to: Remember: Concept and definition of self-concept, personality, traits, types Understand: The difference between self and personality ; Components of self (self-esteem, self-efficacy, self-regulation) and the role of cultural and social factors in shaping personality Apply: The acquired knowledge to use psychological tests to assess personality and relate theories to real-life behavior or personal experiences Analyze: The strengths and limitations of personality assessments and how environment and heredity influence personality
		Chapter No. : 3 Meeting life challenges	Students will be able to: Remember: Definitions: stress, coping, resilience; Types of stress: eustress, distress and key concepts: GAS model, stressors, defense mechanisms Understand: Psychological and physiological effects of stress ; Role of perception in stress experience Apply: Stress management techniques (meditation, time management, relaxation) and identify personal stressors and coping styles Analyze: The difference between effective and ineffective coping strategies, and how individual differences (personality, gender, resources) affect stress response
	June	PERIODIC TEST-I	
	July & August	Chapter No. : 4 Psychological Disorders	Students will be able to: Remember: Definitions, symptoms, and types of psychological disorders. List classifications from DSM and ICD. Understand: Causes (biological, psychological, socio-cultural) of disorders. Understand the difference between normal and abnormal behavior. Apply: Symptoms in real-life case examples. Use diagnostic criteria to recognize mental health conditions. Analyze: Compare different models of abnormality (medical, psychological). Examine how culture and stigma affect diagnosis and treatment.
	August	PERIODIC TEST-2	
	September	REVISION & TERM-I EXAMINATION	
TERM-II	October	Chapter No. : 5 Therapeutic Approaches	Students will be able to: Remember: Names, techniques, and goals of various therapies (e.g., CBT, psychoanalysis) and types of professionals involved in therapy Understand: How different therapies work and their core principles; the client-therapist relationship and ethical issues Apply: Therapy principles in everyday problem-solving Analyze: Effectiveness of different therapies and when and why one therapy works better than another
		Chapter No. : 6 Attitude and Social cognition	Students will be able to: Remember: Key terms: attitude, stereotypes, prejudice, attribution and factors influencing attitude formation and change Understand: How attitudes are formed and how they influence behavior Apply: The gained knowledge to identify real-life examples of bias, persuasion, and social influence Analyze: The theories of attitude change (e.g., balance theory, cognitive dissonance) and how individual and group factors affect social judgments

		Chapter No. : 7 Social influences and group processes	Students will be able to: Remember: Concepts like conformity, obedience, compliance, groupthink, and leadership and types of groups and social influence processes Understand: How individuals behave differently in group settings and the impact of roles, norms, and status in groups Apply: The gained knowledge to influence in everyday situations (peer pressure, teamwork) Analyze: Effects of group dynamics on decision-making and examine reasons behind conformity and obedience using classic studies
	November	Revision of Syllabus for Pre-Board Examination	
	December	Pre-Board Examination	
	January	CBSE Practical and Internal Assessment	
	February & March	CBSE Board Examination	

Applied Mathematics (241)

Book Prescribed: NCERT			
	Months	Content	Learning Outcomes
Term -I	March - April & May	Chapter: Matrices	Students will be able to: Remember: The concept of matrices, Operations on matrices and its types : zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices Understand: The properties of addition, multiplication of matrices and scalar multiplication Apply: Addition and multiplication of matrices and scalar multiplication to real life problems Analyze: Non- commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2) ; Invertible matrices and proof of the uniqueness of inverse, if it exists
		Chapter :Determinants	Students will be able to: Remember: The key terms : Determinant of a square matrix , minors and co-factors Understand: The method of finding the adjoint and inverse of a square matrix and number of solutions of system of linear equations ; Consistency and inconsistency of solutions Apply: The acquired knowledge to solve the system of linear equations in two or three variables (having unique solution) using inverse of a matrix Analyze: Adjoint and inverse of a square matrix.

		Ch- Financial Mathematics	Students will be able to: Remember: The concept of perpetuity and sinking fund Understand: The difference between sinking fund and saving account and the concept of EMI Apply: The gained knowledge to calculate EMI using various methods and Compound Annual Growth Rate Analyze: Different investment options and the impact of interest rates on investments and loans
		Chapter No. :Numbers, Quantification and Numerical Applications	Students will be able to: Remember: The key terms modulus of an integer, congruence modulo Understand: The comparison between two statements/situations which can be compared numerically Apply: Modulus and conjugate to simplify complex expressions; the definition in various problems Analyze: The appropriateness of numerical methods for specific problems
	June	PERIODIC TEST-I	
	July & August	Chapter: Differentiation and its Applications	Students will be able to: Remember: Derivatives up to first order Understand: Differentiation of parametric functions and implicit functions up to second order Apply: The gained knowledge to solve simple problems related to increasing and decreasing behaviour of a function in the given interval. and find local maxima and local minima Analyze: The difference between marginal cost and marginal

			revenue
		Chapter : Linear Programming	Students will be able to: Remember: Definition of Decision Variable, Constraints, Objective function, Optimization and Non negative constraints Understand: The problem in terms of in equations Apply: Corner Point Method for the Optimal solution of LPP Analyze: Feasible and infeasible solutions
		Chapter : Time-based data	Students will be able to: Remember: Time series as chronological data Understand: Long-term tendency Apply: The gained knowledge to demonstrate the techniques of finding trend by different methods Analyze: Fitting a Straight-line trend and estimating the value
	August	PERIODIC TEST-2	
	September	REVISION & TERM-I EXAMINATION	
	October	Chapter: Integration and its Applications	Students will be able to: Remember: Integration as a reverse process of differentiation Understand: Simple integrals based on each method (non - trigonometric function) Apply: Evaluation of area under simple algebraic curves up to 2nd degree. Analyze: The region representing consumer surplus and producer surplus graphically
Term -II		Chapter : Differential Equations and	Students will be able to: Remember: Definition, order, degree of a differential equation

	Modelling	Understand: The process of formulating differential equations Apply: The gained knowledge to solve simple differential equation using variable separable method only Analyze: The solutions of differential equations
	Chapter :- Inferential Statistics	Students will be able to: Remember: Definition of Population and Sample Understand: Economic surveys and other contexts of practical life Apply: The gained knowledge to differentiate between a representative and non-representative sample and draw a representative sample using simple random sampling Analyze: Null Hypothesis to make Statistical Inferences for small sample size
	Chapter : Probability Distributions	Students will be able to: Remember: Definition and example of discrete and continuous random variable and their distribution Understand: The concept of Random Variables and its Probability Distributions Apply: The gained knowledge of arithmetic mean of frequency distribution to find the expected value of a random variable. Analyze: Mean, Variance and S.D of a binomial distribution, Poisson distribution and normal distribution
November	Revision of Syllabus for Pre-Board Examination	
December	Pre-Board Examination	
January	CBSE Practical and Internal Assessment	
February & March	CBSE Board Examination	