

Class- XI (Science) Syllabus for the Session 2024-25

English Core

Boo	Book Prescribed: NCERT		
	Months	Content	Learning Outcomes
		The Portrait of a Lady (Hornbill)	 To learn new words and phrases enriching vocabulary. To develop respect for the grandparents and strengthen grandchild and grandparent relationship.
		Poem- A Photograph (Poem)	 To encourage the students to appreciate the poetry and students would be able to find out poetic devices used in the poem. They would be able to draw a comparative study between human life and nature.
	May	The Summer of the Beautiful White Horse (Snapshots)	 To facilitate an attitude to become honest and trustworthy in thought and action, responsible cooperative, understanding and tolerance. Students would be able to comprehend the irony hidden in the story.
		Advertisement Writing, Note Making, Integrated Grammar	 To develop skill of note making and finding key words in the given passage. Students will be able to make notes of the given text.
	June	Speech Writing	 To develop writing skills. To enable the students to write speech with a proper format. SUMMER BREAK
TERM-I	July	We are not Afraid to Die (Prose) The Laburnum Top	 The students would be able to enjoy the text and appreciate the style of writing. They would be able to inculcate the values of determination and will power
TEF		(Poem)	 To develop aesthetic sense amongst students and appreciate poetic devices used by the poet. To interpret the poem by relating the theme to the present-day context and respecting Mother Nature.
			PERIODIC TEST-I
		Discovering Tut (Prose)	 To understand, enjoy and appreciate a factual text, understand the meaning and usage of phrases used in the text. To appreciate the rich and mysterious history of the royal kings.
		Poem- Voice of the Rain	 To develop aesthetic sense amongst students and appreciate poetic devices used by the poet. To interpret the poem by relating the theme to the present-day context and respecting Mother Nature.
	August	Poem-The Childhood	 To develop aesthetic sense amongst students and appreciate poetic devices used by the poet. To be able to differentiate between innocence and maturity.
		The Adventure (Hornbill)	 To introduce the students to the genre of science fiction. To facilitate the students in making connections between similar situations in different storylines/life experiences.
		*Integrated Grammar	 To understand correct usage of grammar. To be able to comprehend and use grammatical organization for quantifying and sentence completion.

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		Debate Writing	To be able to frame speech & debate. The description of the debate is a second of the debate.	
			To learn how to defend and put arguments for the given topic.	
	September	REVISION & TERM-I EXAMINATION		
		Mother's Day (Snapshots)	 Imbibe values like care and concern, empathy, compassion, respect for elders, belongingness and tolerance. Understand the struggles and sacrifices of parents and to draw inspiration from them. 	
		Silk Road (Hornbill)	 To develop students' interest in religious places and importance of Mount Kailash & Kora. To identify the important of the Silk Road and how it came into existence. 	
	October & November	Poem- Father to Son (Hornbill)	 To develop students' interest in poetry and find out the poetic devices. To cultivate interest and appreciate poetry and develop the ability of reading with proper stress and intonation. 	
TERM-II		Letter Writing (Business letters)	 To be able to write general letters. To exchange the ideas and opinions. 	
TE		Poster Writing	 To express ideas aesthetically and relevantly with definition in purpose, expressions, grammar usage, format usage, relevant vocabulary. To be able to create effective poster. 	
	December			
	_		WINTER BREAK	
		Birth (Snapshots)	To be able to enjoy literature and know about the various challenges faced in medical profession.	
	January	Poem- The Tale of Melon City (Snapshots)	 To develop students' interest in poetry and find out the poetic devices. To inculcate values like social connection, trust, co-operation, confidence, faith, respect and integrity, ability to fight against all odds. 	
	February & March	REVISION, PRACTICALS & TERM-II EXAMINATION		

Physics

Book Prescribed: NCERT			
	Months	Content	Learning Outcomes
TERM - I	May	Ch- Units and Measurements	 To define fundamental quantities and derived quantities and their units. To understand the use of measuring instruments viz. Vernier callipers, screw gauge. To apply dimensional analysis on checking the accuracy of an equation relating various physical quantities and to derive relation between various physical quantities. To understand the various mathematical operations with regards to significant figures.
II.		Ch- Motion in a Straight Line	 To understand the concept of distance, displacement, velocity and acceleration. To distinguish between average and instantaneous quantities. To plot distance-time and velocity- time graph. To apply equations of motion and to solve the numerical examples.

	June	Ch- Motion in Plane Ch- Laws of Motion Ch- Work, Energy and Power	 To determine the sum of vectors using triangle law of addition and parallelogram law of addition. To define equilibrium of vectors. To define projectile, projectile motion and trajectory of projectile. To derive the relation for time of flight, maximum height and horizontal range of a projectile. To find the difference between banking of road and level road and apply the concept of banking of road to real life situations. To calculate angle of banking in case of banked road. To apply the concept of friction, coefficient of friction in day to day life. SUMMER BREAK To understand the basic concept of work done along with its mathematical analysis and classification of work. To understand the concept of mechanical energy, different forms of energy and its conservation with necessary mathematical analysis. To develop problem solving on the concept of power, energy
		Ch- Gravitation Ch- System of Particles and Rotational Motion	 To develop problem solving on the concept of power, energy and work. To recall the Newton's law of gravitation. To know about variation in gravitational acceleration with height and depth from surface of the earth. To compare and contrast the geostationary and polar orbits of satellites. To know about weightlessness in satellites and to make them understand Keplar's laws of planetary motion. To apply vector product to define and calculate angular momentum and torque. To define moment of inertia and calculate moment of inertia for various rigid bodies by applying theorem of parallel and perpendicular axes. To state and prove law of conservation of angular momentum. To derive expression for rotational kinetic energy of a rigid
	August	Ch- Mechanical Properties of Solids Ch- Mechanical Properties of Fluids	 body and explain rolling motion for a rigid body. PERIODIC TEST-I Learners will be able to understand practicality of different types of Elastic modulli and relation between stress and strain. Learners will be able to understand practicality of fluid dynamics (Pascal's Law, Bernoulli's theorem, Magnus Effect) in real life. Learners will be able to understand concept of surface tension and surface energy and will be able to relate it with a daily life.
	September		REVISION & TERM-I EXAMINATION
П	October &	Ch- Thermal Properties of Matter	 Learners will be able to understand the different methods of heat transfer, concept of thermal expansion and Laws of cooling. To understand about thermal expansion of solids, liquids, and gases and explore about anomalous expansion of water and specific heat capacity.
Term II	November	Ch- Thermodynamics	 To evaluate thermodynamic properties of pure substances with special emphasis on fluids. To use various PVT equations-of-state and heat capacities to evaluate thermodynamic properties. To understand the interrelationships between different thermodynamic properties and become familiar with the calculus that establishes these interrelationships.

	Ch- Kinetic Theory Ch- Oscillations	 To evaluate thermodynamic properties of pure substances with special emphasis on fluids. To be able to calculate heat transfer rates associated with processes involving phase changes and work done by the system or on the system and to calculate standard heats of reaction. To be able to use various sources of thermodynamic data and properties, including graphs and tables and to use graphs of thermodynamic properties to develop an intuition for the variation of these properties during various processes. To explain, interpret and use the terms: oscillation, simple harmonic motion (SHM), amplitude, period, frequency, angular frequency, phase, initial phase, free oscillation, damped oscillation, forced oscillation. To explain free, damped and forced oscillations in terms of forces and energy transfers. To describe the important properties of SHM and explain how
		SHMs can be combined to give more general oscillations.
December		PERIODIC TEST-II
		WINTER BREAK
January	Ch- Waves	 To understand the concept of waves and its types. To know about the different terms related to waves and to differentiate between transverse and longitudinal waves. To derive the relation of displacement in progressive waves and understand the concept of superposition waves.
February & March	REV	ISION, PRACTICALS & TERM-II EXAMINATION

Chemistry

Book Prescribed: NCERT			1 5 1
	Months	Content	Learning Outcomes
Term -I		Ch- Some Basic Concepts of Chemistry	 Student will be able to distinction between qualitative and quantitative chemical analysis How to use the scientific method to create, test, and evaluate Students will gain and understand the fundamental properties of atoms, molecules, and the various states of matter Calculations of chemical equations to determine the quantities of reactants and products.
	May	Ch- Structure Of Atom	 Students will be able to describe fundamental properties of structure of atom Explain the Thomson model, Rutherford model and Bohr model Understand the photoelectric effect, black body radiations, hydrogen spectrum Know about quantum numbers.
		Ch- Classification Of Elements And Periodicity In Properties	 Students will be able to define periodic table and learn different elements of it Understand blocks, shells sub shells of periodic table Cherish with the essentials of Mendeleev and Modern periodic table Classify the elements into different blocks viz s,p,d,f and get detailed Electronegativity, ionic and atomic radii and their variations in periodic table.

			 Students will be able to understand the different approaches to types of chemical bonding
	June	Ch -Chemical	 Explain the rules to write the Lewis structure of simple
		Bonding and Molecular structure	moleculesCalculate the formal charge of atoms present in the Lewis
			structures
			Understand the concept of resonance SUMMER BREAK
		Ch -Chemical	Describe the VSEPR theory and its significance
	July	Bonding and	in predicting the anomalous change in geometry of molecules
	July	Molecular structure	due to different kinds of electronic interaction
			 The students will be able to explain Electronic concept of oxidation and reduction
			Define Basic principles involved in redox reactions
			Know Mechanism of electron transfer involved in redox
			reactions
	August	Ch- Redox reaction	Calculation of oxidation numbers in terms of electron transfer
			Differentiation of reactions in terms of redox reaction Polar sing of redox reactions using
			 Balancing of redox reactions using i) oxidation number method
			ii)half reaction method
			Apply Electrochemistry of redox reactions as a tool for future
			knowledge
	September		REVISION & TERM-I EXAMINATION
			The students will be able Interpret the structure of molecules in different ways
			Classify and give the nomenclature of organic compounds in
		Ch-Organic	trivial and IUPAC system.
		chemistry: some	Explain about different types of isomerism exhibited by organic
		basic principles and techniques	compounds
			Bring out the effect of electronic displacements on structure and
			reactivity of organic compounds • Understand the methods of purification of organic compounds
			Explain in detail the qualitative and quantitative aspects of
			organic
			The students will be able to:
	October		Name the different kind of hydrocarbons according to common Name the different kind of hydrocarbons according to common
	& November		and IUPAC nomenclatureIdentify and write the structures of isomers of aliphatic and
TERM-II	November		aromatic hydrocarbons
ERN		Ch-Hydrocarbon	• Know different form arise due to free rotation of C-C bond in
E		•	alkane(conformers)
			Discuss on Preparations and Properties of alkanes, alkenes,
			alkynes and arenesDefine Geometrical isomers(cis-trans) arising due to the
			restricted rotation about C=C
			Explain resonance and extra stability of benzene
			The students will be able to know he concept of System and
			surroundings in thermodynamics and their types
	December	Ch-Chemical	Explain First law of ThermodynamicsKnow about the thermodynamics in terms of internal energy,
			work and heat.
			Relationship between internal energy and enthalpy
			 Different types of enthalpy changes involved in terms of Hess's law
			PERIODIC TEST-II
1			PERIODIC TEST-II

February & March	REVISION, PRACTICALS & TERM-II EXAMINATION	
	Ch- Equilibrium	 different conditions Classify substances as acids and bases on the basis of different theories Explain different important concepts of equilibrium viz., pH scale, ionic product of water.
		 The students will be able to. Understand the equilibrium existing between different states of matter Explain the characteristics of chemical equilibrium and equilibrium constant Bring out the relationship between equilibrium constants at

Biology

Book	Books prescribed- NCE`RT			
	Months	Content	Learning Outcomes	
		Ch 1- The living world	Students are able to explain the concept of Binomial nomenclature and taxonomical hierarchy.	
	May	Ch 2- Biological Classification	 Students are able to elaborate the salient features of different kingdoms like Monera, Protista, Fungi and difference between Virus, viroid, prions and lichens 	
		Ch 3- Plant kingdom	 Students are able to classify plant kingdom into algae, pteridophytes, bryophytes, gymnosperms and angiosperms. 	
		Ch 4- Animal Kingdom	 Students are able to classify different groups of animals of Animal kingdom into their respective phylum and classes. 	
	June	Ch 5-Morphology of flowering Plants	Students are able to illustrate the morphological features of plants, and explain venation, inflorescence, phyllotaxy, placentation and description of family Solanaceae.	
·		Ch 6 Anotomy of	SUMMER BREAK	
Term -I	July	Ch 6- Anatomy of Flowering Plants	Students are able to differentiate and identify between the transverse section of dicot and monocot roots, stems and leaves.	
		Ch 7- Structural Organisation in Animals	Students are able to explain the morphology, anatomy and different systems of Frog.	
			PERIODIC TEST-I	
		Ch 8- The unit of life	 Students are able to differentiate between Prokaryotic & Eukaryotic cells, animal, plant cell and its cell organelles and its functions in detail. 	
	August	Ch 9- Biomolecules	 Students are able to explain chemical constituents of living cells and working of enzymes and factors affecting enzyme activity. 	
		Ch 10- Cell Cycle and Cell Division	 Students are able to explain the Cell cycle- mitosis, meiosis and their significance. 	
	September		REVISION & TERM-I EXAMINATION	
TERM-II		Ch 11- Photosynthesis in Higher plants	 Students are able to elaborate cyclic and non-cyclic pathways, The Calvin cycle, The Hatch and Slack pathway, factors affecting photosynthesis. 	
	October & November	Ch 12- Respiration in Plants	 Students are able to explain the processes of Glycolysis, TCA cycle, ETS pathway, amphibolic pathways and respiratory quotient in detail. 	
		Ch 13- Plant Growth and Development	 Students are able to explain the phases of plant growth, differentiation, dedifferentiation and re-differentiation and all the plant growth regulators and their functions in detail. 	

	February & March	REVISI	ON, PRACTICALS AND TERM- II EXAMINATION
	January	Ch 19- Chemical Co- ordination and Integration	• Students are able to differentiate between different endocrine glands & explain the function of their hormones, mechanism of hormone action and hypo-activity and hyperactivity and related disorders.
	January	Ch 18- Neural Control & Co- ordination	Students are able to elaborate the structure and types of neurons, conduction and transmission of nerve impulses, central nervous system in detail.
	December		muscular and skeletal system. WINTER BREAK
		Ch 17- Locomotion and Movement	• Students are able to elaborate the types of muscles, mechanism of muscle contraction, skeletal system and disorders of
			PERIODIC TEST-II
		Ch 16- Excretory products and their elimination	 Students are able to explain excretion- urine formation, osmoregulation, regulation of kidney function- renin- angiotensin, ANF, ADH and diabetes insipidus; dialysis and disorders.
		Ch 15- Body Fluids and Circulation	 Students are able to explain the circulation of blood and its formed elements, double circulation, ECG, cardiac cycle and respiratory disorders in detail.
		Ch 14- Breathing & Exchange of Gases	 Students are able to explain the process of exchange of gases, transport of gases, regulation of respiration, respiratory volume and respiratory disorders.

Mathematics (041)

	Months	Content	Learning Outcomes
		Ch-Complex Numbers and Quadratic Equations	 To define need for complex numbers, especially√-1, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane.
	May	Ch- Sequences and Series	• The students will be able to know about Sequence and Series. Arithmetic Mean (A.M.), Geometric Progression (G.P.), general term of a G.P., sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M.
Term -I	June	Ch- Trigonometric Functions	 The students will be able to understand about positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity sin2x + cos2x = 1, for all x. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing sin (x±y) and cos (x±y) in terms of sinx, siny, cosx & cosy and their simple applications. To find domain and range of Trigonometric functions and their graphs. Simple applications. Identities related to sin2x, cos2x,tan2x, sin3x, cos3x and tan3x
	July	Ch- Straight Lines Ch- Statistics	 SUMMER BREAK To learn brief recall of two dimensional geometry from earlier classes. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form. Distance of a point from a line.
		Cn- Statistics	To find Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/grouped data.

			PERIODIC TEST-I
		Ch- Limits &	Derivative introduced as rate of change both as that of distance
		Derivatives	function and geometrically.
			Intuitive idea of limit. Limits of polynomials and rational
			functions trigonometric, exponential and logarithmic functions.
			Definition of derivative relate it to scope of tangent of the curve,
			derivative of sum, difference, product and quotient of functions.
	August		Derivatives of polynomial and trigonometric functions.
		Ch- Sets	To define Sets and their representations, Empty set, Finite and
			Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers
			especially intervals (with notations). Universal set.
			To draw Venn diagrams. Union and Intersection of sets.
			To explain Difference of sets. Complement of a set.
			Properties of Complement.
	September		REVISION & TERM-I EXAMINATION
		Ch- Relations and	To define Ordered pairs. Cartesian product of sets. Number of
		Functions	elements in the Cartesian product of two finite sets. Cartesian
			product of the set of reals with itself (upto R x R x R).
			To define a relation, draw pictorial diagrams, domain, co-domain
			and range of a relation.
			To define a Function as a special type of relation. Pictorial
			representation of a function, domain, co-domain and range of a
			function.
			• Real valued functions, domain and range of these functions,
			constant, identity, polynomial, rational, modulus, signum,
		0	exponential, logarithmic and greatest integer functions, with their
		O	graphs. Sum, difference, product and quotients of functions.
	October	Ch- Permutations	To make them understand Fundamental principle of counting.
	October &	and Combinations	Factorial n. (n!) Permutations and combinations,
	November	10	• Derivation of formulae for nPr and nCr and their connections,
	- 10 1 0	1	simple applications.
TERM-II		Ch- Binomial	To make them understand Historical perspective, statement and
RIV		Theorem	proof of the binomial theorem for positive integral indices.
TE			Pascal's triangle, simple applications.
		Ch- Probability	• To explain Events; occurrence of events, 'not', 'and' and 'or'
			events, exhaustive events, mutually exclusive events, Axiomatic
			(set theoretic) probability, connections with other theories of
			earlier classes. Probability of an event, probability of 'not', 'and'
		Ch- Linear	and 'or' events.
		Inequalities	• To understand Linear inequalities. Algebraic solutions of linear
		mequanties	inequalities in one variable and their representation on the number line.
			 To find Solution of linear inequalties graphically.
	December		PERIODIC TEST-II
	December		WINTER BREAK
			Sections of a cone: circles, ellipse, parabola, hyperbola, a point,
			a straight line and a pair of
	January	Ch- Conic Sections	Intersecting lines as a degenerated case of a conic section.
			Standard equations and simple
			Properties of parabola, ellipse and hyperbola. Standard equation
		Ch- Introduction to	of a circle.
		Three Dimensional	Coordinate axes and coordinate planes in three dimensions.
		Geometry.	Coordinates of a point. Distance between two points.
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	February &	PEVIO	SION, PRACTICALS & TERM-II EXAMINATION
	March	KE VI	ZOTY I MICHOLDS & I BRITISH BARRIMATION

Computer Science

	Book Prescribed Computer Science with Python (Sultan Chand Pub.)			
Com	Months	Content	Learning Outcomes	
	Months	Ch- Computer System	To learn the basic computer organisation.	
	May	Organization	 To learn the basic computer organisation: To know about the types of software: System software, Operating System (OS), functions of the operating system, OS user interface and different types of applications. 	
		Ch - Data Representation and Boolean Logic	 To learn and practices of Boolean logic, truth tables and De Morgan's laws, Logic circuits. To learn about the Number System and conversion between number systems Encoding Schemes: ASCII, ISCII, and Unicode (UTF8, UTF32) 	
n-1		Practical of sequential programming.	Students will do programs of sequential programming and learn evaluation of an expression accepting data as input from the console and displaying output.	
Term-1	June	Ch- Getting Started with Python.	Students will learn the basics of Python programming and problem solving approach, algorithm, Flowcharts etc.	
	June	CI D (I	SUMMER VACATION	
	July	Ch- Python Programming Fundamentals	To learn about the data types, operators, tokens, bugging, debugging the program.	
		Ch- Conditional and Looping Construct	To learn and practices the conditional statements: if, if-else, if-elif-else	
			PERIODIC TEST-I	
	August	Ch- Conditional and Looping Construct	 To learn the Iterative Statement: for loop, while loop, break and continue. Students will do programs of Control statement and Looping Statements. 	
	September		REVISION & TERM-I EXAMINATION	
	Бергенівет	Ch – Strings in Python	• To learn about the strings in python, operations on string, traversing a	
		Cl. Vivi D. d	string using loops, built-in functions	
	October &	Ch – List in Python	To learn about the lists in python, indexing, operations and built-in functions of list.	
	November	Ch –Tuples and Dictionary	• To learn about the tuples on python, operations, built-in functions/methods	
			• To learn about the dictionary, accessing the dictionary using keys, built-in functions of the dictionary.	
[-II	December		PERIODIC TEST-II	
TERM-II			WINTER BREAK	
TE		Ch –Introduction to Python Modules	To learn the creation of modules, functions of python.	
		Ch- Society , law & Ethics	To learn the rules to use the social media, cybercrime and how to deal with the cybercrime.	
	January		 To learn the IPR and related terms, violation of IPR. To learn more about the open source and open data 	
		Ch- Cyber Safety	 To learn about the cyber crime, cyber safety and cyber forensics. To learn about the malware, viruses, Trojans, adware, E-waste management: IT Act for cyber crime, technology and society. 	
	February & March	REVI	SION, PRACTICALS & TERM-II EXAMINATION	
	March			

Physical Education

	Months	Content	Learning Outcomes
		Ch- (Changing Trends & Career in Physical Education)	 Students will come to know about career options in physical education and also about Khelo India & Fit India. Students will able to know about physical development.
	May	Ch- (Olympism Value Education)	 Students will come to know about ancient & modern Olympics and concept of Olympism. Students will come to know about Olympic Symbols, flag and motto.
_	June	SUMMER BREAK	
TERM-I		Ch- (Yoga)	It will help to understand about the importance of Yoga in our life.Students will able to know about different yoga asanas.
	July	Ch- (Physical Education & Sports for CWSN)	 It will help to understand about aim & objective of adaptive physical education. Students will able to know about the role of various professionals for CWSN.
			PERIODIC TEST-I
	August	Ch- (Physical Fitness, Wellness and Lifestyle)	Students will come to know about Health related fitness. Students will able to know about Traditional sports and regional games.
	September		REVISION & TERM-I EXAMINATION
	October &	Ch- (Test, Measurement and Evaluation)	 It will help to learn to about BMI. Students will able to know about the concept of Test, Measurement and Evaluation in physical education and sports.
	November	Ch- (Fundamentals of Anatomy, Physiology in sports)	 It will help to understand about human body systems. Students will able to know about the function and structure of Circulatory system and Respiratory system.
	December		PERIODIC TEST-II
TERM-II		Ch- (Fundamentals of Kinesiology and Biomechanics in sports)	 WINTER BREAK It will help to understand about how kinesiology and biomechanics helps to improve sports techniques. Students will able to know about the different types of body movements
	January	Ch- (Psychology & Sports)	 Students will come to know about the importance of sports. Students will able to know the adolescent problems and their management.
		Ch- (Training & Dopping in Sports)	 It will help to understand about the prohibited substances in sports. Students will able to know about sports training.
	February & March	REVISION, PRACTICALS & TERM-II EXAMINATION	

Painting

Book	Book Prescribed: NCERT			
	Months	Content	Learning Outcomes	
	May	Ch- Pre-Historic rock paintings	 To demonstrate different values such as cooperation, team work, discipline & respect for nature & animal. To understand the various style & moods of art expressions from different parts of India. 	
		Ch- Art of Indus Valley	To explain the beauty of man-made designs of sculptures.	
I-I	June		SUMMER BREAK	
TERM-I	July	Ch- Buddhist, Jain and Hindu Art	 To develop skill of using drawing & painting material (surface tools & equipment etc.) effectively. To develop their skills to draw & paint these observations. 	
		PERIODIC TEST-I		
	August	Ch- Buddhist, Jain and Hindu Art	 To develop skill of using drawing & painting material (surface tools & equipment's etc.) effectively. To develop their skills to draw & paint these observations. 	
	September		REVISION & TERM-I EXAMINATION	
TERM-II	October & November	Ch- Temple sculpture, Bronzes and Artistic aspects of Indo-Islamic architecture	To express them effectively in drawing & painting to express the different feelings & moods of life and nature in lines forms & colours	
	December		PERIODIC TEST-II	
	January	WINTER BREAK REVISION OF WHOLE SYLLABUS		
	February & March	REVISION, PRACTICALS & TERM-II EXAMINATION		

Hindustani Music Vocal

Bool	Book Prescribed: NCERT				
	Months	Content	Learning Outcomes		
1		Ch - Brief study of the following: Nada, Swar Shruti, Saptak, Thaat, Jaati, Laya, Tala.	Students will be able to understand basic terms of classical music.		
TERM-I	May	Ch - Discription of prescribed taal along with taal notation with thah, dugun and chaugun of Teentaal with hand beats.	Students will be able to understand the concept of rhythm.		

		Ch - Writing in notation the composition of prescribed raag Bhairavi (dhrut khayal) Devotional song.	Students will be able to learn sudh komal tivra swaras, according to their ragas.		
		Ch- Brief History of Dhrupad, Khayal & Tarana	Students will be able to know the history of indian classical music.		
		Ch- Lifesketch and contribution of Tansen	Students will be able to understand the roots of indian classical musicians and the importance of their contribution towards classical music.		
	June	Ch - Brief study of musical element in Natyashastra	Students will be learn about the historical aspects of indian classical music.		
			SUMMER BREAK		
		Ch- Writing in notation the composition of prescribed Raag Bhimplasi (Vilambit & Drut Khayal)	Students will be able to learn Shudh and Komal Swaras according to the raga.		
	July	Ch - Discription of prescribed taal along with taal notation with thah, dugun and chaugun of Ektaal with hand beats.	Student will be able to learn the concept of rhythm.		
		PERIODIC TEST-I			
	August	Ch - Knowledge of the structure of Tanpura.	Students will be able to learn the basic knowledge of Tanpura.		
		Ch- Discription of prescribed taal along with taal notation with thah, Dugun,tigun and chaugun of Chartaal with hand beats.	Students will be able to understand the concept of rhythm and how to show rhytm on hands.		
	September	REVISI	ON & TERM-I EXAMINATION		
	0.41	Ch- Critical study of prescribed Raag Bihag along with recognising phrases of swaras and elaborating them & writing in notation the composition of Raag Bihag (Dhrut khayal).	• Students will be able to recognise the raag with the help of swaras.		
	October &	Ch - Tunning of Tanpura	• Student will be learn the basic knowledge of tanpura.		
п	November	Ch - Brief study of the following- Margi-Desi Sangeet, Raga	• Students will be able to understand basic terms of music.		
TERM-II		Ch - Life sketch & contribution of V.N.Bhatkhande & V.D. Paluskar	Students will be able to understand the roots of indian classical musicians and the importance of their contribution towards classical music.		
	December		PERIODIC TEST-II		
	January	Ch- Critical study of prescribed Raag along with recognising Ragas from phrases of swaras & elaborating them(Bhimplasi, Bhairavi)	• Students will be able to recognise the raag with the help of swaras.		

February	&
March	

REVISION, PRACTICALS & TERM-II EXAMINATION

Early Childhood Care and Education

Book	Book Prescribed: ECCE Resource		
	Months	Content	Learning Outcomes
	May	Ch-Communication Skills III Ch- Introduction to	 To understand the various communication models. To develop effective verbal communication skills, including clarity, coherence, and appropriate language use. To understand about the context of the child.
		Early Childhood Care & Education	Recognize the responsibilities and roles of early childhood educators in providing a nurturing learning environment.
	June		SUMMER BREAK
TERM-I	July	Ch- Foundations of Child Development Ch- Self-Management Skills III	 Comprehend major developmental theories. To identify and describe the various domains of child development, including physical, cognitive, social, and emotional development. To learn to set smart (specific, measurable, achievable, relevant, time-bound) goals. To enhance decision-making skills by evaluating options &
			considering consequences.
	August		PERIODIC TEST-I
		Ch- Nutrition & Health Needs of the Child	 To understand the nutritional needs of children at different stages of development. To identify common nutritional deficiencies in children, their causes, symptoms, and preventive measures.
	September	REVISION & TERM-I EXAMINATION	
		Ch- Various Pedagogical Approaches & Holistic Development Activities for ECCE	 To know about care & practices for children from (birth to 6 months) (7 months to 1 year) and (1 year to 3 year) To demonstrate an understanding of key pedagogical approaches.
	October & November	Ch- Inside-Outside Care & Learning Environment	 To learn about the environment for health, safety, stimulation and learning. Identify the key components and characteristics of effective indoor and outdoor learning spaces.
TERM-II		Ch- ICT Skills III	 To develop digital literacy and data management. To understand basic digital concepts.
TE		Ch- Entrepreneurial Skills III	 To understand about business planning and conceptualisation. To learn about research and financial literacy.
	December		PERIODIC TEST-II
			WINTER BREAK
	January	Ch- Engaging With Parents & Community	To know about the ways of reaching out to parents & community through various methods.
	Junuary	Ch- Green Skills III	 To develop an understanding of environmental challenges To understand environmental conservation and sustainable practices.
	February & March	REVISION, PRACTICALS & TERM-II EXAMINATION	

Yoga

	Book Prescribed:		
	Months	Content	Learning Outcomes
	May	Ch- Communication Skills-III Ch – Introduction to	 Students will develop knowledge skills & judgement around human communication that facilitate their ability to work collaboratively with others. Students will come to know about the components and addressing barriers to effective communication. Student will develop knowledge about yoga.
ı.		Yoga and Yogic	Students will able to know how to improve internal organs with the
FERM-I		Practices-III	help of Yogic kirays.
ER	June		SUMMER BREAK
L .	July	Ch- Self Management Skills-III	PERIODIC TEST-I Helps to become a successful learner. It will help to understand about setting goals and efficiently manage time.
	August	Ch- ICT Skills-III	Acknowledging the role of technologies in modern society. It will help to develop digital literacy, data management and understand basic digital concepts.
	September		REVISION & TERM-I EXAMINATION
	October to November	Ch – Introduction to Yoga Texts-I	 Students will develop knowledge about yoga. Students will able to know about different asanas.
		Ch – Yoga for Health Promotion-I	• Students will develop knowledge about yogic diet. Students will able to know about asanas and their benefits.
1-I	December		PERIODIC TEST-II
TERM-II		Ch- Entrepreneuial Skills-III	 It will allow students to identify & create business opportunities. It will help to understand about business planning, conceptualisation, research and financial literacy.
	January	Ch- Green Skills-III	 It will increase knowledge about the need of green skill for efficient society. It will help to develop an understanding of environmental challenges, conservation and sustainable practices.
	February & March	REVISION, PRACTICALS & TERM-II EXAMINATION	

Library & Information Science

Book	Book Prescribed: CBSE			
	Months	Content	Learning Outcomes	
	May	Ch -Communication Skills-III	 To identify the different parts of a sentence. To address barriers to effective communication. 	
TERM-I		Ch - Library, Information and Society – Role and its implications	 To know about the purpose and role of library in the development of modern society To know about types of libraries and their role & organization of library resources: basics 	
		Ch - Self - Management Skills-III	To understand about setting goals and efficiently manage time.	
	June		SUMMER BREAK	

	July	Ch- Organization of Library Resources: Basics	 To understand about library classification. To understand about library cataloguing.
			PERIODIC TEST-I
	August	Ch - Reference and Information Sources	To understand about provide additional facilities for higher learning. The state of the st
C	<u> </u>		To research and dissemination of knowledge. REVISION & TERM-I EXAMINATION
	eptember	Ch- ICT Skills-III	 To develop digital literacy, data management. To understand basic digital concepts.
M-II	October & November	Ch - Computer Applications in Libraries: Basics	 To access to a range of electronic information resources. To manage materials (books, journals, videos, and other media) held in particular collections.
TERM-II		Ch - Entrepreneurial Skills-III	To understand about business, planning, conceptualisation, research and financial literacy.
	December		PERIODIC TEST-II
	January	Ch - Green Skills-III	To develop an understanding of environmental challenges, conservation and sustainable practices.
	February & March	REVISION, PRACTICALS & TERM-II EXAMINATION	

Marketing

Book	x Prescribed:	CBSE Notes	BLIC
	Months	Content	Learning Outcomes
	May	Ch - Introduction to Marketing Ch - Communication Skills	 To understand the concept, scope and objectives of marketing. Explain marketing philosophies and represent what can be marketed. To differentiate between Selling and Marketing. The students will be able to know about the components of communication & addressing barriers to effective
Ξ		Ch- Marketing Environment	 communication. To understand the micro, macro, internal and external factors affecting the business. To describe the meaning of ETOP and environmental scanning.
\mathbb{Z}	June		SUMMER BREAK
TERM-I	July	Ch- Marketing Environment	 To understand the micro, macro, internal and external factors affecting the business. To describe the meaning of ETOP and environmental scanning.
		Ch- Self Management Skills - III	 To understand about setting goals and efficiently manage time. To understand the meaning and importance of Self-management, develop self-confidence and positive thinking.
			PERIODIC TEST-I
	August	Ch- Marketing Segmentation, Targeting and Positioning	The students will be able to understand the concept, basis and importance of segmentation, targeting and positioning.
	September		
	•	Ch- ICT (Information and Communication Technology) - III	 Understand the importance of ICT at workforce and at home. Enable the use of ICT tools.
II	October &	Ch- Fundamentals of marketing mix	 Give introduction and characteristics of marketing mix. Understand the concept of 4Ps & 4Cs and factors governing these decisions.
FERM-II	November	Ch- Consumer Behaviour	Discuss about the meaning importance and stages of consumer behaviour. To understand the factors governing the consumer behaviour.
			To understand the factors governing the consumer behaviour PERIODIC TEST-II
	December		WINTER BREAK

January	Ch- Entrepreneurial Skills - III	To understand the meaning of Entrepreneurship, its role, characteristics of entrepreneur.
	Ch- Green Skills - III	• The students will be able to acquire knowledge about resources, their uses, pollution and importance of green environment.
February & March	REVISION, PRACTICALS & TERM-II EXAMINATION	

Applied Mathematics (241)

Book	R Prescribed:	NCERT	
	Months	Content	Learning Outcomes
	May	Ch- Sets Ch- Relations	 Define set as well-defined collection of objects. Represent set in roster and set builder form. Identify different types of sets on the basis of number of elements in the set. Differentiate between equal set and equivalence set. Subsets Apply the concept of Venn diagram to understand the relationship between sets. Solve problems using Venn diagram. Perform operations on sets to solve practical problems. Explain the significance of specific arrangement of elements in a pair. Cartesian product of two sets. Find the number of elements in a Cartesian product of two sets. Express relation as a subset of Cartesian product. Find domain
TERM-I	June	Ch- Sequence & Series	 and range of a relation. Differentiate between sequence and series, identify arithmetic progression(AP). Establish the formulae of finding nth term and sum of n terms. Solve application problems based on AP .Find arithmetic mean(AM) of two positive numbers .Identify Geometric Progression (GP) .Derive the nth term and sum of n terms of a given GP. Solve problems based on applications of GP . Find geometric mean (GM) of two positive numbers. Solve problems based on relation between AM and GM. Apply appropriate formulas of AP and GP to solve application problems. SUMMER BREAK
	July	Ch-Straight Line Ch-Circle	 Find the slope and equation of line in various form. Find angle between the two lines. Find the perpendicular from a given point on a line. Find the distance between two parallel lines. Define a circle. Find different form of equations of a circle. Solve problems based on applications of circle.
			PERIODIC TEST-I
	August	Ch - Numbers, Quantification and Numerical Applications	 Express decimal numbers in binary system. Express binary numbers in decimal system. Relate indices and logarithm/ antilogarithm, find logarithm and antilogarithms of given numbers. Enlist the laws and properties of logarithms. Apply laws of logarithm. Use logarithm in different applications. determine average for a given data. Evaluate the angular value of a minute. Calculate the angle formed between two hands of a clock at given time. Calculate the time for which hands of clock need. Determine odd days in a

TERM-II	September October & November	Ch- Limits, Continuity & Derivatives of functions Ch- Permutations and Combinations Ch- Parabola Ch- Probability	month/ year/ century. decode the day for given date. Establish the relationship between work and time. Compare the work done by the individual/ group w.r.t. time. calculate the time taken/ distance covered/ work done from the given data. Solve problems based on the surface area and volume of 2D and 3D shapes calculate the volume surface area for solid formed using two or more sheets. • Create suitable seating plan/ draft as per given conditions (linear / circular). • Locate the position of a person in a seating arrangement. REVISION & TERM-I EXAMINATION • Identify dependent and independent variables. Define a function using dependent and independent variable. • Define domain, range and co-domain of a given function. • Define domain, range and co-domain of a given function graphically • Define limit of a function. Solve problems based on the algebra of limits. Define continuity of a function. • Define instantaneous rate of change. • Find the derivative of the functions. Find the derivative of function of a function. • Define factorial of a number. Calculate factorial of a number. Appreciate how to count without counting. Define combination. Apply the concept of • permutation to solve simple problems. Define combination. Apply the formula of combination to solve the related problems. • Define parabola and related terms. Define eccentricity of a parabola. Derive the equation of parabola. • Appreciate the use of probability in daily life. • Define random experiment and sample space with suitable examples. • Define an event. Recognize and differentiate different types of events and find their probabilities. • Define the concept of conditional probability. Apply reasoning skills to solve problems based on conditional probability. • Interpret mathematical information and identify situations when to apply total probability. Solve problems based on application of total probability. • State Bayes' theorem. Solve practical problems based on Bayes' Theorem.		
	December		PERIODIC TEST-II		
		WINTER BREAK			
	January	Ch- Descriptive Statistics	 Understand meaning of dispersion in a data set. Differentiate between range, quartile deviation, mean deviation and standard deviation. Calculate range, quartile deviation, mean deviation and standard deviation for ungrouped and grouped data set. Choose appropriate measure of dispersion to calculate spread of data. Define Skewness and Kurtosis using graphical representation of a data set. Interpret Skewness and Kurtosis of a frequency distribution by plotting the graph. Calculate coefficient of Skewness and interpret the results. Define Percentile rank and Quartile rank. Calculate and interpret Percentile and Quartile rank of scores in a given data set. Define correlation in values of two data sets. Calculate Product moment correlation for ungrouped and grouped data. Calculate Karl Pearson's coefficient of correlation. Calculate Spearman's rank correlation. Interpret the coefficient of correlation. 		

and indirect tax. Define and explain GST. Calculate GST. Explain rules under State Goods and Services Tax (SGST). Central Goods and Services Tax (CGST) and Union Territory Goods and Services Tax (UTGST). Describe the meaning of bil and its various types. Analyze the meaning and rules determining tariff rates. Explain the concept of fixed charge. To interpret and analyse electricity bills, water bills and other supply bills. Evaluate how to calculate units consumed under electricity bills/water bill.	Ch- Mathematical and	Explain rules under State Goods and Services Tax (SGST). Central Goods and Services Tax (CGST) and Union Territory Goods and Services Tax (UTGST). Describe the meaning of bills and its various types. Analyze the meaning and rules determining tariff rates. Explain the concept of fixed charge. To interpret and analyse electricity bills, water bills and other supply bills. Evaluate how to calculate units consumed under electricity
Logical Reasoning relation and coding decoding	Laginal Dansanina	
February REVISION, PRACTICALS & TERM-II EXAMINATION	Logical Reasoning	