



**BCM ARYA SCHOOL (SR. SEC)**

**SINGLA-ENCLAVE, LALTON-DOLON KHURD, LUDHIANA**

**“Nurturing Innovative Thinkers And Compassionate Leaders”**

**E-ACADEMIC ATLAS**

**SESSION – 2025-26**



*“We do not inherit the Earth from our Ancestors,  
We borrow it from our Children”*

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***CLASS - XI***

Month	Topic	Hours	Activity	Learning Outcomes
April	The Portrait of a Lady	2hrs	Draw a Pen Portrait of your Grandmother	Students will be able to maintain emotional balance in their relationship.
	Poster Writing	1.20hrs	Prepare a poster on any SDG	Students will be able to hone imaginative skills.
	A Photograph	1.20hrs	Write a short poem on 'My Mother'	Students will learn about mother daughter relationship which is intense and unique.
	Advertisement (Accommodation, To Let)	1.20hrs	Bring classified advertisement cut outs from newspaper and paste them on your notebook.	It will develop their writing skills.
	Comprehension: Discursive Passage	1.20hrs	Practice of Comprehension Passages	Students will be able to enhance their reading skill and make inferences.
May	The Summer of the Beautiful White Horse	2hrs	Group Discussion on the topic 'Conflict between feelings and reason and importance of character and reputation'	Students will be able to develop their imagination power.
	The Laburnum Top	1.20hrs	Find out the Literary Devices used in the poem with examples and write a couplet using them.	Students will learn to appreciate nature through poetry.
	Advertisements (Situation Vacant, Situation Wanted, Sale, Purchase)	1.40hrs	Bring clippings of Classified Advertisement	It will develop their writing skills.

	Gap filling (Tenses, Clauses)	1.20hrs	from Newspaper and paste in notebook.  Draw a flow chart of Tenses	Practice of tenses will help in enhancing their grammatical skills.
June	Summer Break			
July	We are not afraid to die	2hrs	Share any adventure experience (you had) which reflected your presence of mind or practical knowledge	-understand that presence of mind along with the practical knowledge is important to take instant decisions - know that determination and self confidence can conquer adverse circumstances
	The voice of rain	1.20hrs	<b>Creative Writing</b> Students will write a short poem or narrative from the perspective of another natural element (e.g., a tree, a river, the wind) and describe its role and significance in a similar conversational style.	-inculcate values of sharing, caring and responsible attitude towards others  -inculcate values like care and concern to save environment -develop imaginative and analytical skills
	The address	2hrs	<b>Speech</b> Students will share experience about the significance of articles/memories/people.	- realise the importance of saving natural resources.
	Speech writing	1.20hrs		To enable the students – -to inculcate values like courage, empathy, sensitivity, critical

	Note making Passage	1.20hrs	Practice exercises based on the Different topics.	thinking and maintaining relations. -to learn from past experiences. -to understand to forget the past and move ahead in life.
	Reordering	30 mins	<b>Reading Skill</b> Passages will be given for making notes  Students will do practice from the given assignments	Guide and motivate students to express and write effectively. -Develop knowledge and purpose of writing speech.  Students will grasp the core steps involved in note-making, including skimming, scanning, and identifying main ideas and supporting details. focus on students' ability to form grammatically correct and meaningful sentences from jumbled words or phrases, and to arrange sentences logically within a paragraph.
August	Discovery Tut	2hrs	<b>Flow Chart</b> Draw a flow chart to draw King Tut's Family line and their description	Students will be able to Know about the archaeology and advancement in technologies
	Childhood	1.20hrs	<b>Debate on topic:</b>	

	Mother's Day	2hrs	Is attainment of maturity a sign of loss of innocence?	The students will be able to - Think, analyse and observe -- Differentiate between innocence and maturity
	Debate writing	1.20hrs	<b>Role Play:</b> She too is a human being and needs rest? Share your views about the role of mother in your life	-to strengthen the family bonding with sharing and solving problems
	Practice of Gap Filling	1.20hrs	<b>Debate Writing</b> Current topics will be given to the students for writing debate	-Develop excellent oral and written communication skills.
	Case Based study Passage	1.20hrs	Practice of Integrated grammar	-Develop excellent critical thinking skills. -Develop effective tools for research, organization and presentation.
			Practice of Comprehensive passages	-enhance their grammatical skill  Students will be able to enhance their reading skill and make inferences.
September	Mid-term Examination			
October	The Adventure	2hrs	<b>Diary Entry</b> Students will share their adventure experience in Diary	Students will learn about the importance of courage and resilience, and the value of exploration and discovery in personal growth.
	Father to son	1.20hrs		

	Birth	2hrs	<p><b>Role Play:</b> Dialogue conversation between students playing the role of father and son.</p> <p><b>Speech on the topic</b> “Generation Gap is destroying family life.”</p> <p><b>Class room discussion based on- -</b> Advancements in Medical Science.</p>	<p>understand the consequences of lack of communication and cold indifferences in a family.</p>
	Advertisement	1.20hrs	<p>Bring clippings of Classified Advertisement from Newspaper and paste in notebook.</p>	<p>-understand the sense of duty. -appreciate and accept the selfless service to mankind. - realise and create a balance between the knowledge gained and practical approach. -Able to retain a data and information. -Organize ideas on a particular subject.</p>
November	Silk Road	2hrs	<p><b>Flow Chart</b> Students will make a flowchart of Nick Middleton’s journey to Mount Kailash.</p>	<p>-Understand the difficulties faced while travelling in different situations and places. -understand that positive thinking changes the expected results.</p>
	The Tale of melon City	1.40hrs	<p>Word power and expressions checked in the form of a Quiz.</p>	<p>-understand that law is not only blind but can also spell disaster if it is thoughtlessly</p>

	Practice of Reading Passage	1.20hrs		implemented. -understand the process of fair and important judgement.
December	Revision of Full Syllabus			
January	Revision of Full Syllabus			

**SUBJECT: BIOLOGY**

**BOOK NAME: NCERT**

<b>MONTH</b>	<b>CHAPTER</b>	<b>HOURS</b>	<b>ACTIVITY</b>	<b>LEARNING OUTCOMES</b>
April	Chapter-1: The Living World  Chapter-2: Biological Classification	8-9 hrs.	Framing of hierarchy of different organisms in order as per NCERT  Slides of bacteria, oscillatoria, Rhizopus, lichens, Amoeba, Euglena	Students become aware about types of Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial Nomenclature Students become aware about five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids.
May	Chapter-4: Animal Kingdom	12-14 hrs.	Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn,	Students get acknowledged about the salient features and classification of animals, nonchordates up to phyla level and

			silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.	chordates up to class level (salient features and at a few examples of each category).
July	Chapter - 4: Animal Kingdom Chapter 3 Plant Kingdom	4-5Hrs	Continued....  Specimens of funaria, fern, pinus, grass, wheat	Students will get to know classification of algae into red algae, green algae and brown algae, characteristics of mosses, liverworts , pteridophytes, gymnosperms and angiosperms
	Chapter-7: Structural Organisation in Animals	4-5Hrs	Teacher will show some Charts or models on the basic structure of Frog	Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog.
August	Chapter-5: Morphology of Flowering Plants	4-5hrs	Study and describe locally available common flowering plants, from family  Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams),	Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae

	Chapter-6: Anatomy of Flowering Plants	8-9Hrs	<p>type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).</p>	
	Chapter-8: Cell- The Unit of Life	8-9Hrs	<p>Preparation and study of T.S. of dicot and monocot roots and stems (primary)</p> <p>Study of distribution of stomata on the upper and lower surfaces of leaves.</p> <p>Teacher will show the permanent slides or charts or visuals of various organelles to the students.</p>	<p>Anatomy and functions of tissue systems in dicots and monocots.</p> <p>Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus.</p> <p>Cell cycle, mitosis, meiosis and their significance</p>
	Chapter-10: Cell Cycle and Cell Division	17Hrs	<p>Mitosis in onion root tip cells and animal's cells (grasshopper) from permanent slides.</p>	
September	Chapter-9:	8-9Hrs	TO STUDY PRESENCE	Chemical constituents

	Biomolecules		OF CARBOHYDRATES, FATS AND PROTEINS IN SAMPLE PROVIDED	of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, and nucleic acids; Enzyme - types, properties, enzyme action. (Topics excluded: Nature of Bond Linking Monomers in a Polymer, Dynamic State of Body Constituents Concept of Metabolism, Metabolic Basis of Living, The Living State)
October	Biomolecules Cont.	11Hrs	TO STUDY PRESENCE OF CARBOHYDRATES, FATS AND PROTEINS IN SAMPLE PROVIDED	STUDENTS WILL BECOME AWARE OF COMPOSITION OF LIVING CELL, ROLE OF MACROMOLECULES AND MICROMOLECULES, THEIR STRUCTURE AND IMPORTANCE Students will become aware of Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system – structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders - uremia, renal failure, renal calculi, nephritis; dialysis and artificial
	Chapter-19: Excretory Products and their Elimination	16Hrs	To study the process of formation of Urine in malphigian bodies and renal tubules with the help of charts.	
	Chapter-20: Locomotion and Movement	12Hrs	To study the Human skeleton and different types of joints with the help of virtual	

			images/models only.	<p>kidney, kidney transplant.</p> <p>Types of movement - ciliary, flagellar, muscular; skeletal muscle, contractile proteins and</p> <p>muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal systems - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.</p>
November	<p>PHOTOSYNTHESIS IN HIGHER PLANTS</p> <p>Chapter-21: Neural Control and Coordination</p> <p>Chapter-22: Chemical Coordination and Integration</p>	<p>14Hrs</p> <p>12Hrs</p>	<p>1.T.W ENGELMANN EXPERIMENT</p> <p>2.LIGHT AND DARK REACTION</p> <p>CARBON DIOXIDE, LIGHT, WATER IS NECESSARY FOR THE PROCESS OF PHOTOSYNTHESIS</p> <p>A Model will be shown to the students explaining the structure and function of various nerves.</p> <p>To show the model of the human brain for better understanding.</p> <p>Students will be shown a chart explaining the function of various hormones and their related disorders.</p>	<p>STUDENT WILL BECOME AWARE OF REACTIONS OF PHOTOSYNTHESIS, PROCESS OF PHOTOSYNTHESIS, CYCLES AND FACTORS ALONG WITH DISCOVERIES AND INVENTIONS</p> <p>Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse</p> <p>Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads;</p>

				mechanism of hormone action (elementary idea); role of hormones as messengers and regulators, hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goitre, diabetes, Addison's disease.
December	RESPIRATION IN PLANTS	8-9Hrs	TO TEST CARBON DIOXIDE IS EVOLVED OUT DURING RESPIRATION	STUDENT WILL COME TO KNOW CYCLES OF RESPIRATION, AMOUNT OF ENERGY RELEASED, IMPORTANCE AND RQ VALUES
January	PLANT GROWTH AND DEVELOPMENT	10Hrs	1. EFFECT OF AUXINS AND CYTOKININ IN TISSUE CULTURE 2. SEED GERMINATION AND GROWTH	STUDENTS WILL BECOME AWARE OF VARIOUS PHASES OF GROWTH, EFFECT OF PGRS ON PLANT GROWTH AND DEVELOPMENT ALONG WITH ABCISSION AND SENESCENCE

**SUBJECT: PHYSICS**

**BOOK: NCERT**

MONTH	UNIT	HOURS	TOPICS	LEARNING OUTCOMES
April	<b>1. Physical world and measurement</b>	3 HRS	Chapter 1: Units and measurement	<ul style="list-style-type: none"> <li>Explains processes, phenomena and laws with the understanding of the relationship between nature and matter on</li> </ul>

	<p><b>2.Kinematics</b></p>	<p>3 HRS</p>	<p>Need for measurement ,units of measurement, system of units,SI units, fundamental and derive units, significant figures. Dimensions of physical quantities, dimensional analysis and its applications.</p> <p>Chapter–2: Motion in a Straight Line</p> <p>Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, uniform and non-uniform motion, average speed and average velocity and instantaneous velocity</p>	<p>scientific basis; such as, need of accuracy,</p> <ul style="list-style-type: none"> <li>• uncertainties in measurements and significant figures</li> </ul>
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		<p>resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform acceleration- projectile motion, uniform circular motion.</p> <p>Chapter-4: Laws of Motion</p> <p>Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling</p>	<p>idea of action and reaction forces.</p>
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			friction, lubrication. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).	
August	<b>4. Work, Energy and Power</b>	4 HRS	Chapter– 5: Work, Energy and Power  Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: non-conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.	<ul style="list-style-type: none"> <li>• the concept of work and how to calculate the work done by a force.</li> <li>• the concept of the net work done on an object and how that relates to a change in speed of the object.</li> <li>• the concept of kinetic energy and where it comes from.</li> </ul> <ul style="list-style-type: none"> <li>• Explores the motion of systems of particles, rigid body rotation, and the centre of the mass concept.</li> <li>• moment of inertia, torque, and angular momentum, which are essential in understanding rotational dynamics.</li> </ul>
	<b>5. Motion of System of Particles and Rigid Body</b>	5 HRS		

Chapter-6:  
System of  
Particles and  
Rotational  
Motion

Centre of mass  
of a two-particle  
system,  
momentum  
conservation  
and Centre of  
mass motion.

Centre of mass  
of a rigid body;  
centre of mass  
of a uniform  
rod. Moment of  
a force, torque,  
angular  
momentum, law  
of conservation  
of angular  
momentum and  
its applications.

Equilibrium of  
rigid bodies,  
rigid body  
rotation and  
equations of  
rotational  
motion,  
comparison of  
linear and  
rotational  
motions.

Moment of  
inertia, radius of  
gyration, values  
of moments of

			inertia for simple geometrical objects (no derivation).	
September	<b>Mid-term Exam</b>			•
October	<b>6. Gravitation</b>	4 HRS	Chapter – 7: Gravitation Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential, escape speed, orbital velocity of a satellite, energy of an orbiting satellite.	<ul style="list-style-type: none"> <li>• concept of gravitation, gravity, acceleration due to gravity, universal law of gravitation.</li> <li>• variation of acceleration due to gravity with height and depth.</li> <li>• concept of gravitational potential, gravitational potential energy.</li> <li>• concept of escape velocity, orbital velocity of satellite.</li> <li>• Kepler's law of planetary motion.</li> </ul>
	<b>7. Properties of Bulk Matter</b>	3 HRS		<ul style="list-style-type: none"> <li>• practicalities of different types of elastic moduli and relation between stress and strain.</li> <li>• practicality of fluid dynamics in real life (Pascal law, Bernoulli's theorem, Magnus effect)</li> <li>• concept of surface tension and surface energy and will be able to relate it with daily life.</li> </ul>

			<p>Chapter–8: Mechanical Properties of Solids Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy. Application of elastic behavior of materials (qualitative idea only).</p>	<ul style="list-style-type: none"> <li>different methods of heat transfer, concept of thermal expansion and Newton law of cooling.</li> </ul>
November		3 HRS	<p>Chapter–9: Mechanical Properties of Fluids Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity,</p>	

	<p><b>8. Thermodynamics</b></p>	<p>3 HRS</p> <p>2 HRS</p>	<p>streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications (Torricelli's law and Dynamic lift). Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise. Chapter-10: Thermal Properties of Matter Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; <math>C_p</math>, <math>C_v</math> - calorimetry; change of state - latent heat capacity. Heat</p>	<p>concept of heat, work and internal energy of the system.</p> <ul style="list-style-type: none"> <li>• concept of isothermal process, adiabatic process, isochoric and isobaric process.</li> <li>• work done by the gas in isothermal and adiabatic process.</li> </ul>
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		<p>transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law.</p> <p>Chapter-11: Thermodynamics</p> <p>Thermal equilibrium and definition of temperature, zeroth law of thermodynamics, heat, work and internal energy. First law of thermodynamics, Second law of thermodynamics:</p> <p>Thermodynamic state variable and equation of state. Change of condition of gaseous state isothermal, adiabatic, reversible, irreversible, and cyclic processes.</p>	
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December	<b>9. Behavior of Perfect Gases and Kinetic Theory of Gases</b>	3 HRS	<p>Chapter–12: Kinetic Theory</p> <p>Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.</p>	<ul style="list-style-type: none"> <li>• pressure exerted by an ideal gas on the walls of the container.</li> <li>• concept of relation between different specific heat capacities.</li> <li>• specific heat capacities value for monoatomic diatomic, triatomic gas molecules.</li> </ul>
January	<b>10. Oscillations and Waves</b>	3 HRS	<p>Chapter–13 Oscillations</p> <p>Periodic motion - time period, frequency, displacement as a function of time, periodic functions and their</p>	<ul style="list-style-type: none"> <li>• basic concepts of generation of waves along with its classification and mathematical analysis and SHM.</li> <li>• different forms of the energy possessed by a body executing SHM with its mathematical analysis.</li> </ul>

		<p>2 HRS</p>	<p>applications. Simple harmonic motion (S.H.M), uniform circular motion and its equations of motion; phase; oscillations of a loaded spring-restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.</p> <p>Chapter–14: Waves Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and</p>	<ul style="list-style-type: none"> <li>• concept of resonance, free oscillation and forced oscillation.</li> <li>• mathematical analysis of the waves along its basic parameters(amplitude, frequency and phase)</li> <li>• concept of reflection of wave along with concept of harmonic.</li> </ul> <p>6) stationary waves and the concept of node and antinode.</p>
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			harmonics, Beats.	
January	Mock Test			
February	Final Examination			

**Subject: Chemistry**

**Name of Book: NCERT**

<b>Month</b>	<b>Chapters/Topic</b>	<b>Learning Hour</b>	<b>Activity</b>	<b>Learning Outcomes</b>
April	Some basic Concepts of Chemistry	9 (14 periods)	<p>Students will perform hands on practical in chemistry lab in group of two: Activity- volumetric analysis Exp. 1 - To find molarity and strength of NaOH solution using oxalic acid.</p> <p>Exp. 2 - To find molarity and strength of HCl solution using sodium carbonate solution.</p>	<p>Students will be able to ... Understand and appreciate the role of chemistry in different spheres of life; Explain the characteristics of three states of matter; Define SI base units and list some commonly used prefixes; Use scientific notations and perform simple mathematical operations on numbers; Differentiate between precision and accuracy; Determine significant figures;</p> <p>Convert physical quantities from one system of units to another; Explain various laws of chemical combination; Appreciate significance of atomic mass, average atomic</p>

				<p>mass, molecular mass and formula mass; Describe the terms - mole and molar mass;</p> <p>Calculate the mass per cent of different elements constituting a compound; Determine empirical formula and molecular formula for a compound from the given experimental data.</p>
May	Structure of Atom (till Electromagnetic Radiation)	10 (16 periods)	<p>Students will be assigned to explain how photoelectric effect is used in fire alarms. Demonstration using videos of absorption and emission spectra.</p>	<p>Students will be able to Describe the experiments which lead to the explanation of the structure of atom.</p> <p>Explain the developments that lead to the Bohr's model of atom, photoelectric effect, black body radiation and Plank's quantum theory.</p> <p>Explain the absorption and emission spectra, hydrogen spectra.</p> <p>Explain dual nature of matter, de-broglie equation and Heisenberg uncertainty</p>

				principle.
July	Structure of Atom (continued) Classification of Elements and periodicity in properties	5 (8 periods)	Quiz based activity related to chapter will be conducted.	Students will be able to describe the term Vander Waal radii, ionic radii Explain diagonal relationship and its causes. Types of oxides and trend of valency.
August	Chemical Bonding and Molecular Structure Redox Reactions	10 (16 periods)	Formation of molecular models using Clay and Stick. (Group Activity)	The students will be able to understand the different approaches of chemical bonding. Explain the rules to write the Lewis Structure of simple molecules
October	Chemical Thermodynamics	12 (18 periods)		the student will be able to explain system and surroundings, differentiation between open, closed and isolated system. Calculation of enthalpy changes for various types of reaction State and applies Hess's law of constant heat

				summation
November	Equilibrium	13 (20 periods)	Demonstration of an experiment to show Equilibrium reaction.	Students will be able to understand all the concepts regarding physical and chemical equilibria and can solve 1 numerical problems.
December	Organic Chemistry: Some basic Principles and Techniques	9 (14 periods)	Salt Analysis from given organic compound	<p>the student will be able to learn the basics of some organic compounds their nomenclature and structures</p> <p>their nomenclature purification techniques qualitative and quantitative analysis of organic compounds various numerical based on the quantitative analysis</p>
January	Hydrocarbons	10 (16 periods)	To identify saturated and unsaturated compound through chemical test.	<p>The students will be able to:</p> <p>To write IUPAC names of hydrocarbons</p> <p>To classify hydrocarbons</p> <p>To explore the application in petroleum refining industries</p>
Revision and Final Examination				

MONTH	TOPIC	HOURS	ACTIVITY	LEARNING OUTCOMES
April	<b>Complex number</b>	3 HRS	To interpret geometrically the meaning of $i$ and its integral powers.	evaluate square roots of negative numbers, for example, $\sqrt{-64}$ , understand that a complex number is a number that is formed of a complex of two parts: a real part and an imaginary part, identify the real and imaginary parts of a complex number.
	<b>Sets</b>	3 HRS	<p>1. To find the number of subsets of a given set and verify that if a set has <math>n</math> elements, then the total number of subsets is <math>2^n</math>.</p> <p>2. To represent set theoretic operations using Venn diagram.</p>	<p>Describe memberships of sets, including the empty set, using proper notation, and decide whether given items are members and determine the cardinality of a given set.</p> <ul style="list-style-type: none"> <li>Describe the relations between sets regarding membership, equality, subset, and proper subset, using proper notation.</li> </ul>
MAY	<b>Relation function</b>	3 HRS	To distinguish between a relation and a function	<ul style="list-style-type: none"> <li>Identify the differences between a relation and a function.</li> <li>Determine whether or not a function is linear.</li> <li>Calculate missing values for a stated function or function pattern.</li> </ul>

				<ul style="list-style-type: none"> <li>• Recognize multiple representations of linear functions</li> </ul>
JUNE	<b>Trigonometry</b>	3 HRS	To prepare a model to illustrate the values of sine function and cosine function for different angles.	<p>Convert between decimal degrees, degree-minute-seconds, and radian measure of an angle.</p> <ul style="list-style-type: none"> <li>• Evaluate the 6 trigonometric functions using a calculator, as well as determining exact values for some special angles without a calculator.</li> </ul> <p>Solve triangle (right, acute, obtuse), given various angles and sides.</p>
JULY	<b>Permutations and Combinations</b>  <b>Sequence and series</b>  <b>linear inequality</b>	4 Hrs  4 Hrs  3 Hrs	<p>To find the number of ways in which in which three cards can be selected from the given five cards</p> <p>To obtain the formula for the sum of squares of first natural numbers</p>	<ul style="list-style-type: none"> <li>• After studying this lesson on permutation, students will be able to: Define a permutation and explain how to calculate one.</li> <li>• Explain what a factorial is and its relation to permutations.</li> <li>• Solve some actual permutation and factorial problems.</li> <li>• Find any element of a sequence given a formula for its general term. Use sigma notation and expand corresponding series.</li> </ul>

			To verify the graph of the given inequality.	Distinguish between a sequence and a series. Calculate the nth partial sum of sequence Students can solve systems of linear equations by graphing. <ul style="list-style-type: none"> <li>• Students are able to determine if a system of linear equations has no solution, one solution, or infinitely many solutions.</li> <li>• Students are able to determine which method is best to solve a system of linear equations.</li> </ul>
AUGUST	<b>Straight line</b>	4 Hrs  3 Hrs	To verify the equation of a line passing through the point of intersection of two lines.  To explain the concepts of octants.	<ul style="list-style-type: none"> <li>• find the equation of a line in point–slope form .</li> <li>• find the equation of a line in general form of given two points on the line,</li> <li>• find the equation of a line given the slope or one point on the line and given that another point on the line.</li> </ul> <p>Students will be able to solve problem sums related to three dimensional geometry.</p>
OCTOBER	<b>Limits and Derivatives</b>	3.2 Hrs  3 Hrs	To discuss geometrical significance of derivatives	Limit refers to the value that a sequence or function approaches when the input approaches a certain value. <ul style="list-style-type: none"> <li>• This is because the derivative assesses the steepness of a</li> </ul>

	<p><b>Statistics</b></p> <p><b>Probability</b></p>	3 Hrs	<p>To discuss mean deviation, variance and standard deviation by giving day-to-day life examples.</p> <p>To write sample space when a coin is tossed once, twice, thrice or four times</p>	<p>function's steepness on a graph at a point on the graph.</p> <ul style="list-style-type: none"> <li>• The value of a function when the input approaches a specific value can be defined as a Limit.</li> </ul> <p>Students will be able to solve the word problems related to mean deviation, Variance and Standard deviation.</p> <p>Explain the concept of probability.</p> <ul style="list-style-type: none"> <li>• Calculate the probability of simple events.</li> <li>• Calculate the probability of compound events.</li> <li>• Calculate the probability of complementary events.</li> </ul>
November	<p><b>Conic Section</b></p> <p><b>Binomial theorem</b></p>	<p>4 hrs</p> <p>3 hrs</p>	<p>To construct different types of conic sections.</p> <p>To construct a Pascal's Triangle and to write</p>	<p>Convert general and standard forms of equations of conic sections, identify whether an equation of a conic section describes a parabola, a circle, a noncircular ellipse, or a hyperbola by examining its discriminant. Work with combinations.</p> <ul style="list-style-type: none"> <li>• Generate rows of Pascal's triangle.</li> <li>• Use the binomial theorem to expand polynomials, and to</li> </ul>

			binomial expression for a given positive integral exponent.	identify terms for a given polynomial. • Use the binomial theorem to calculate the probability of success or failure in a Bernoulli trial.
December	Revision of Full Syllabus			
January	Revision of Full Syllabus			

**Subject: Business Studies**

**Book name – Business Studies (NCERT)**

Month	Chapter/ Topic	No. of Hours	Activity	Learning Outcomes
April	<p><b>Chapter 1 : Business, Trade and Commerce</b></p> <p>Topic : Role of Business in the Development of Economy</p> <p>Concept and objectives of business</p> <p>Comparison of Business, Profession and Employment</p>	4 hours	Practical examples	<p>Appreciates the contribution of business activities in the growth and development of an economy</p> <p>Discusses the concept and objectives of business</p> <p>Categorises business activities into occupation, profession, and employment</p> <p>Classifies industry in different types</p>

	<p>Classification of business activities</p> <p>Business Risk</p> <p>Basic factors to start a new business</p>		<p>Mind Map and flow chart</p> <p>Real Life examples</p> <p>Group Discussion</p>	<p>Explains Risk and Profit as a reward of Risk</p> <p>Enumerates factors for starting a business</p>
May	PRE MID TERM EXAMINATIONS	-	-	-
June	Summer Vacations	-	-	-
July	<p><b>Chapter-2</b></p> <p><b>Forms of business organisation -</b></p> <p>Sole proprietorship, Partnership, Joint Hindu Family, Cooperative society, Company, Choice of form of organisation</p>	4 hours	Role play and general discussion	<p>1. Identify the different forms of business organisation</p> <p>2 Explain the. Concept, merits and limitations of forms of business organisations</p> <p>3. Discuss the Factors determining choice of a suitable form of business organisation</p>
	<p><b>Chapter 3:</b></p> <p><b>Private, Public and global enterprises-</b></p> <p>Private sector and Public Sector ,Departmental Undertakings, Government company, Regional Balance, Economies of scale, Import substitution, Government policy, MOU, Joint ventures, PPP</p>	6 hours	Real life example	<p>1. Explain features of different forms of public enterprises</p> <p>2. Critically examine changing role of public sector</p> <p>3. appreciate benefits of joint ventures</p> <p>1. state the characteristics of services</p> <p>2. classify different types of business services</p>
	<b>Chapter 4 : Business Services-</b>		Mind Mapping	

	Nature and types of services, Insurance (and its functions, principles and types), warehousing	5 hours		3.identify and classify different types of insurance policies 4. Describe different types of warehouses
August	<b>Chapter 5: Emerging modes of business-</b> e-business, its process and benefits, security concerns, need and scope of business process outsourcing	5 hours	PPT, Real life examples	1.Distinguish e business and traditional business 2.state benefits of switching over to electronic mode 3.Appreciate the scope of business process outsourcing
	<b>Chapter 6: Social Responsibilities of business and business ethics-</b> Concept, need and benefits of social responsibility,Social responsibility towards different interest groups, Business and environment protection,Business ethics	6 hours	PPT	1.Discuss the need for social responsibility 2.Identify social responsibility towards different interest groups 3.Analyse the relationship between business and environmental protection 4.Define the concept of business ethics
September	Revision and Exams	-	-	-
October	<b>Chapter 7: Sources of Business Finance-</b> Meaning , nature and importance of business finance, sources of business finance, factors affecting choice of appropriate sources of business finance	6 hours	PPT	1.State the meaning, nature and importance of business finance 2. Classify the various sources of business finance. 3.Examine the factors that affect the choice of an appropriate source of finance  1.Explain the meaning and nature of small business 2.Appreciate the role of small business

	<b>Chapter 8 : Small Business and Entrepreneurship-</b> Meaning and Role of small business, governmental assistance , problems of small business Entrepreneur	6 hours	Flow chart	3.Classify different forms of assistance provided by government
November	<b>Chapter 9 : Internal Trade-</b> Meaning and types of internal trade, services of wholesalers and retailers, different forms of small scale and large scale retailers, role of chambers of commerce, GST implementation	5 hours	PPT, Group Discussion (collect information related to various startups in India and discuss in class)	1.Describe the meaning and types of internal trade 2.Explain the services of retailers and retailers 3.State the role of chambers of commerce 4.officiate the implementation of GST  -  1.State the meaning of International business 2.Distinguish between International Business and Domestic Business,Discuss the documents required for import and export transactions
December	Revision and exams			
January	<b>Chapter 10: International Business-</b> Concept of International business, International vs Domestic Business, Export procedure, Import Procedure,	6 hours	Prepare a performa related to documents required in International Business, PPT	
February	Final Examinations		-	-

**Subject: Economics**

**Book name – Introductory Micro Economics**

**Book Name-Statistics For Economics**

Month	Chapter/ Topic	No. of Hours	Activity	Learning Outcomes
April	<p><b><u>Micro Economics</u></b> <b>Chapter 1 : Economics and Economy</b></p> <p>Topics: Introduction, Meaning and Definition of Economics</p> <p>Microeconomics and Macroeconomics, Positive and Normative Economics</p> <p>Meaning and definition of economy, Types of economies</p>	3 hours	<p>Role playing scenario</p> <p>Mind Map and flow chart</p>	<p>Explain the nature, scope and methodology of Economics and find out the difference between micro and macroeconomics.</p>

	<p><b>Chapter 2 : Central problems of an economy</b></p> <p>Topics: Introduction and concept of economic problem</p> <p>Central problems of an economy</p> <p>Solution of central problems</p> <p>Production Possibility Curve (PPC)</p> <p>PPC and Opportunity Cost</p>	3 hours	<p>Group discussion on how central problems can be dealt under different economies.</p> <p>Quote real Life examples</p> <p>Diagrammatic presentation</p>	<p>Recall the concept of economic problem</p> <p>Interpret all the 3 central problems of economy</p> <p>Summarize the solutions of central problems</p> <p>Demonstrate PPC with its explanation</p> <p>Give suitable examples</p>
	<p><b>Chapter 5: Theory of Demand</b></p>	3 hours	<p>Practical examples,</p>	<p>Memorize the meaning and definition of demand</p>

	<p>Topics: Introduction, meaning and definition of Demand</p> <p>Demand schedule, Demand curve and its slope</p> <p>Demand function/ Determinants of Demand, Law of Demand and its Exceptions, Movement along and shifts in the demand curve</p>		<p>table, diagram</p> <p>Using real life and practical examples</p>	<p>Understand the relationship between price and demand</p> <p>Recall the determinants of demand with different examples</p>
May	Revision and Pre Mid Term Examinations	-	-	-
June	Summer vacations	-	-	-
July	<p><b><u>Micro Economics</u></b> <b>Chapter 3: Consumer's Equilibrium- Utility Analysis</b> Topics: - meaning of Utility, Marginal Utility, Law of Diminishing Marginal Utility, conditions of consumer's equilibrium using marginal utility analysis.</p> <p><b><u>Statistics</u></b> <b>Chapter 1: Concept of</b></p>	<p>4 hours</p> <p>2 hours</p>	<p>Case studies – Real world applications of utility in consumer decision making</p> <p>Demonstration of sampling</p>	<p>Utility maximization - how consumers allocate resources to maximize satisfaction.</p> <p>Students will learn about what is Statistics and also describe the role of statistics in Economics</p>



	<p>and total expenditure method.</p> <p><b>Chapter 7: Production function and returns to a factor</b>  Topics: Meaning of Production Function – Short-Run and Long-Run Total Product, Average Product and Marginal Product. Returns to a Factor</p> <p><b>Statistics:</b>  <b>Chapter 6: Diagrammatic Presentation of data- Bar Diagrams and Pie Diagrams</b></p> <p><b>Chapter 7: Frequency Distribution- Histogram, Polygon and Ogive</b>  Topics: Frequency diagrams (histogram, polygon and Ogive)</p>	<p>3 hours</p> <p>1 hour</p> <p>2 hours</p>	<p>Flow Chart and Mind Mapping</p> <p>Demonstration of diagrams</p> <p>Construction of various graphs</p>	<p>Know the meaning and purpose of production and production function</p> <p>Students will understand the meaning and definition of various concepts and key terms used in diagrammatic and graphical presentation.</p> <p>Present data using different graphs</p> <p>Students will be able to calculate mean using various methods</p>
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	<p>Topics: sources of data - primary and secondary; how basic data is collected with concepts of Sampling; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organisation.</p> <p><b>Chapter 5: Presentation of data-Textual and tabular presentation</b></p> <p><b>Chapter 8: Arithmetic Line-Graphs or Time Series Graphs</b> Topics: Arithmetic line graphs (time series graph).</p> <p><b>Chapter 10: Measures of Central Tendency- Median and Mode</b> Various methods of calculating median and mode</p>	<p>1 hour</p> <p>1 hour</p> <p>4 hours</p>	<p>Interpretation of data and its analysis for accurate calculation.</p> <p>Construction of graphs.</p>	<p>Learn to present the data in details</p> <p>Present data using different graphs</p> <p>Students will be able to calculate median and mode using various methods.</p>
November	<p><b><u>Micro Economics</u></b> <b>Chapter 10: Producer's Equilibrium</b></p>	<p>2 hours</p>	<p>Group discussion</p>	<p>Students will understand how producers operate in an economy and achieve equilibrium.</p>



	<p>Applications of Demand and Supply: Price ceiling, Price floor.</p> <p><b><u>Statistics:</u></b></p> <p><b>Chapter 4: Organisation of Data</b>  Topics: Meaning and types of variables; Frequency Distribution</p> <p><b>Chapter 11: Correlation</b>  Topics: meaning and properties, scatter diagram; measures of correlation - Karl Pearson's method (two variables ungrouped data) Spearman's rank correlation (Non-Repeated Ranks and Repeated Ranks)</p>	<p>2 hours</p> <p>2 hours</p>	<p>Construction of tables and diagrammatic presentation of frequency diagrams</p> <p>Mind mapping</p>	<p>Students will be able to plot scatter diagram and compute correlation among different variables.</p>
December	Revision and Examinations		-	-
January	<p><b><u>Statistics:</u></b></p> <p><b>Chapter 12: Index Numbers</b>  Topics: Meaning, types - Wholesale Price Index, Consumer Price Index and index of industrial</p>		Flow Charts	Students will be able to Compute the consumer price index and its application in day-to-day life.

	production, uses of index numbers; Inflation and Index Numbers, Simple Aggregative Method			
February	Final Examinations		-	-

**Subject – Accountancy**

**Book name – APC Books (D K Goel)**

<b>Month</b>	<b>Chapter</b>	<b>Learning hours</b>	<b>Activity</b>	<b>Learning outcome</b>
April – May	Introduction to Accounting	3	PPT, Flow chart, Mind maps and Case studies	<p>Describe the meaning, significance, objectives, advantages and limitations of accounting in the modern economic environment with varied types of business and non-business economic activities</p> <p>Explain the various terms used in accounting and differentiate between different related terms like current and non-current, capital and revenue</p>
	Basic Accounting Terms	2		<p>Explain the basis of recording accounting transaction and to appreciate that accrual basis is a better basis for depicting the correct financial position of an enterprise</p>
	Basis of Accounting	1		<p>Appreciate that for ascertaining the position of individual accounts, transactions are posted from subsidiary books and journal proper into the concerned accounts in the ledger and develop the skill of ledger posting</p> <p>Explain the effect of a transaction (increase or</p>

	Journal Ledger Accounting Equations	6 4		decrease) on the assets, liabilities, capital, revenue and expenses
June		VACATION	SUMME R	
July	Double Entry System	2	PPT, Flow chart, Mind maps and Case studies	Acknowledge the fact that recording of accounting transactions follows double entry system
	Accounting for Goods and Services Tax (GST)	5		Develop the understanding of recording of transactions in journal and the skill of calculating GST
	Trial Balance and Errors	3		State the need and objectives of preparing trial balance and develop the skill of preparing trial balance
	Accounting Principles	3		Describe the meaning of accounting assumptions and the situation in which an assumption is applied during the accounting process
	Accounts from Incomplete Records	3		Understand the meaning and features of Incomplete Records
August	Accounting Standards	2	PPT, Flow chart, Mind maps and Case studies	Explain the meaning, applicability, objectives, advantages and limitations of accounting standards
	Cash book	5		Explain the purpose of maintaining a Cash Book and develop the skill of preparing the format of

	Special Purpose Subsidiary Books	4		<p>different types of cash books and the method of recording cash transactions in Cash Book</p> <p>Describe the method of recording transactions other than cash transactions as per their nature in different subsidiary books</p> <p>Appreciate that at times bank balance as indicated by cash book is different from the bank balance as shown by the pass book/bank statement and to reconcile both the balances, bank reconciliation statement is prepared</p>
	Bank Reconciliation Statement	4		
September	MID	EXAMINATION	TERM	
October	Source Documents of Accountancy	2	PPT, Flow chart, Mind maps and Case studies	<p>Appreciate that on the basis of source documents, accounting vouchers are prepared for recording transaction in the book of accounts</p> <p>Explain the necessity of providing depreciation and develop the skill of using different methods for computing depreciation</p> <p>Appreciate the need for creating reserves and also making provisions for events which may belong</p>
	Depreciation	6		

	Provisions and Reserves	3		to the current year but may happen in next year
November	Financial Statements – With and Without Adjustments	12	PPT, Flow chart, Mind maps and Case studies	State the meaning of gross profit, operating profit and net profit and develop the skill of preparing trading and profit and loss account  Appreciate the difference between reserve and reserve fund
	Capital and Revenue	3		
December	POST	TERM	MID	EXAMINATION
January	Rectification of Errors	5	PPT, Flow chart, Mind maps and Case studies	Develop the skill of identification and location of errors and their rectification and preparation of suspense account
February		EXAMINATION	FINAL	

## SUBJECT-HISTORY

Prescribed Textbook - Themes in World History – Published by NCERT

MONTH	TOPIC	HOURS	ACTIVITY	LEARNING OUTCOMES
APRIL	I EARLY SOCIETIES	10	MAP WORK TIME LINE	Elucidate the interwoven social and cultural aspects of civilization in order to understand the connection between city life and culture of contemporary

				<p>civilizations through their writings.</p> <p>Analyse the outcomes of a sustained tradition of writing. Timeline II</p> <p>□ (C.100 BCE TO 1300 CE) Introducing the periods of the Empires. Quiz and Timeline discussion. □</p> <p>Explain the connection between the growth of human civilisation and the tradition of writing.</p>
JULY	II EMPIRES	10	<b>MAP WORK TIME LINE</b>	<p>□ Explain and relate the dynamics of the Roman Empire in order to understand their polity, economy, society and culture. □</p> <p>Analyse the implications of Roman's contacts with the subcontinent empires and discuss about slavery. □</p> <p>Examine the domains of cultural transformation in that period &amp; the impact of slavery.</p>
	III NOMADIC EMPIRES	10	<b>MAP WORK TIME LINE</b>	<p>□ Identify the living patterns of nomadic pastoralist society. □</p> <p>Trace the rise and growth of Genghis Khan in order to understand him as an oceanic ruler. □</p> <p>Analyse socio-political and economic changes</p>

				during the period of the descendants of Genghis Khan.
AUGUST	IV CHANGING TRADITIONS	10	<b>MAP WORK TIME LINE</b>	<input type="checkbox"/> Explain the myriad aspects of feudalism with special reference to first, second, third and fourth order of the society. <input type="checkbox"/> Relate between ancient slavery and serfdom. <input type="checkbox"/> Assess the 14th century crisis and rise of the nation states
SEPTEMBER	V TOWARDS MODERNISA TION	10	<b>MAP WORK TIME LINE</b>	Evaluate the process of displacements of the native people which led to the development of America and Australiato understand their condition. <input type="checkbox"/> To analyse the realms of settlement of Europeans in Australia and America. <input type="checkbox"/> Compare and contrast the lives and roles of indigenous people in these continents
OCTOBER	VI Paths to Modernization			<input type="checkbox"/> Deduce the histories of China and Japan from the phase of imperialism to modernization. <input type="checkbox"/> Explore the Japanese political, cultural and economic system prior to and after the Meiji Restoration. <input type="checkbox"/> Analyse the domains of Japanese nationalism

				<p>prior and after the Second World War. □ Summarize the nationalist upsurge in China from Dr Sun Yet Sen to Mao Ze Dong to understand the era of communism. (NOTE- Keeping in view the importance of the themes i.e. Japan, China and Korea; it is advised that all must be taught in the schools. □ To analyse the Chinese path to modernization under Deng Xio Ping and Zhou en Lai in order to understand the transformation from rigid communism to liberal socialism.</p>
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**SUBJECT-POLITICAL SCIENCE**

**Book: NCERT**

MONTH	TOPIC	Hours	ACTIVITY	LEARNING OUTCOMES
APRIL	1. Constitution Why and how	10	Dr Ambedkar	Appreciate the need for a Constitution. Understand the Historical processes and the circumstances in which the Indian Constitution was drafted.
MAY	<u>2. Constitution as a Living Document</u> <u>10. The Philosophy of the Constitution</u>	9 8	PREAMBLE	Critically evaluate how constitutions, govern the distribution of power in society. Analyze the ways in Quiz

				which the provisions of the Constitution have worked in real political life
JULY	<u>3.Rights in the Indian Constitution</u>	9	Fundamental rights, writs	<p>After completion of the chapter students will be able to:</p> <p>Analyze the working of the Constitution in real life</p> <p>Learn to respect others, think critically, and make informed decisions</p> <p>Identify violations of the rights to equality and freedom in the society around them</p>
	<u>4.Election and Representation</u>	9	Mock Elections	<p>Identify different types and methods of election</p> <p>Develop critical thinking about the role of various stakeholders in ensuring free and fair elections.</p> <p>Demonstrate the innate role played by Election Commission</p>
	<u>5.Executive</u>	8	Flow charts	<p>Recognize the meaning of Executive.</p> <p>Compare and contrast the Parliamentary and Presidential Executive.</p> <p>Analyze the composition and functioning of the executive.</p> <p>Know the significance of the</p>

				administrative machinery
AUGUST	<u>3.Rights in the Indian Constitution</u> .6.Legislature	9	Session of Lok Sabha	Describe the law-making process in India. Differentiate between the powers and functions of Lok Sabha and Rajya Sabha. Examine the parliamentary control over the Executive. Analyze the role of Parliamentary committees for the success of Indian democracy.
	<u>7. Judiciary</u>	10	Flow charts	Identify the different aspects which makes the Judiciary independent Compare and contrast the different jurisdictions Analyze the reasons why Judiciary has become proactive. Examine the reasons for the conflicts between the judiciary and parliament with respect to Constitutional Amendments.
	<u>8.Federalism</u>	10	73 <sup>rd</sup> Amendment	Explain the basic features of a federation. Identify the different levels of the government & subjects on which the union and state governments can make laws.

				Discuss the various constitutional provisions that led to a strong Centre in India.
	<u>9.Local Governments</u>	9	Panchayati Raj	<p>Understand the Panchayati Raj system of local government in India, its emergence and significance</p> <p>Identify the objectives, functions and sources of income of rural and urban local government bodies</p> <p>Justify the significance of 73rd and 74th constitutional amendments</p> <p>Acknowledge and examine the significance of decentralization</p>
OCTOBER	<u>11.Political Theory: An Introduction</u>	9	-	<p>Define the term politics and identify various political principles.</p> <p>Explain the innate ideas of various Political theories.</p> <p>Appreciate the contribution of Political Thinkers (example: Jean Jacques Rousseau).</p>
	<u>12.Freedom</u>	8	Flow charts	<p>Appreciate the ideal of freedom. Critically evaluate the dimensions of negative and positive liberty.</p> <p>Demonstrate spirit of enquiry</p>

				<p>Explain the ideas introduced by J.S. Mill in Harm Principle.</p> <p>Assess the possible limitations on freedom resulting from the social and economic structures of society.</p>
	<u>13.Equality</u>	8	Nelson Mandela	<p>Understand the moral and political ideals of equality.</p> <p>Assess how equality is perceived through different ideologies</p> <p>Recognize the means and methods to promote equality.</p>
S	<u>14.Social Justice</u>	9	Mandal commision	<p>Classify the different dimensions of justice.</p> <p>Appreciate the measures taken by the government of India to secure social justice.</p> <p>Enlist the basic minimum requirements of people for living a healthy and productive life.</p> <p>State John Rawls' theory of veil of ignorance.</p>
NOVEMBER	<u>15.Rights</u>	10	Fundamental Rights	<p>Identify the need for rights and its importance to mankind</p> <p>Explain why rights need to be sanctioned by law.</p> <p>Describe the features of</p>

				different kinds of rights.
	<u>16.Citizenship</u>	8	-	<p>Explain the meaning of citizenship.</p> <p>Contribute to meaningful discussion on ways of granting citizenship.</p> <p>Discuss the probable solutions or alternatives to solve citizenship issue.</p> <p>Analyze the problems to be surmounted to strengthen links between the people and governments</p>
	<u>17.Nationalism</u>	9	Mahatma Gandhi	<p>Understand the concepts of nation and nationalism</p> <p>Assess the strengths and limitations of nationalism.</p> <p>Identify and build an understanding on the factors related to creation of collective identities</p> <p>Examine the concept of national self-determination</p> <p>Acknowledge the need to make nations more democratic and inclusive</p>
	<u>18.Secularism</u>	9	-	<p>-Define Secularism.</p> <p>Differentiate between Inter-religious and Intra-Religious Domination</p> <p>Recognize the</p>

				<p>concept of a Secular State.</p> <p>Compare Western and Indian Model of Secularism.</p> <p>Make an appraisal of Indian Secularism</p>
DECEMBER	REVISION			

**Subject: Psychology**

**Book: Ncert**

<b>MONT H</b>	<b>CHAPTE R</b>	<b>Hours</b>	<b>ACTIVITY</b>	<b>LEARNING OUTCOMES</b>
April	What is Psychology?	10Hrs	Go to the library or some bookstore or surf the internet and obtain names of some books (fiction/nonfiction or films), which have reference to applications of psychology. Prepare a report giving a brief detail.	Students will be able to learn how to evolve their own understanding in their daily lives.
May	Methods of enquiry in psychology	10hrs	Conduct a survey of the after-school activities of Class V and Class IX students taking a sample of 10 students in each. Find information about the time devoted by them in various activities, such as studying,	Students will be able to explain the goals and nature of psychological inquiry, understand different types of data used.

			<p>playing, television viewing, hobbies, etc. Do you find any difference?          What conclusions do you draw and what suggestions would you offer?</p>	
July	Human development	12Hrs	<p>Interview people from different stages of life, for example, 20-30, 35-45 and over 60 years of age. Talk to them about:</p> <ul style="list-style-type: none"> <li>a) Major transitions that have taken place in their lives.</li> <li>b) How they feel these transitions have affected them.</li> </ul> <p>Prepare a report for the same.</p>	<p>Students will be able to recognize and describe major developmental changes occurring during childhood, adolescence and adulthood in different domains.</p>
August	Sensory, attentional and perceptual processes	12hrs	<p>To demonstrate expectancy tell your friend to close her eyes. Write 12, 13, 14 and 15 on the board. Ask her to open her eyes for 5 seconds, look at the board and note down what she saw. Repeat only 12, 14 and 15 viz "A 13 C D". Ask her again to</p>	<p>Students will be able to understand how we organize sensory information into meaningful patterns and shapes.</p>

			note down what she saw. Most people write down B in place of 13.	
	Learning	10hrs	Take the following words and write them on separate cards, and ask the participants to read them aloud one by one. After completion of two reading, ask them to write down the words in any order: book, law, bread, shirt, coat, paper, pencil, biscuit, pen, life, history, rice, curd, shoes, sociology, sweet, pond, potato, ice-cream, muffler, and prose. After the presentation, ask them to write down the words they read, without bothering about the order of presentation. Analyse your data to see whether recalled words show any organization	Students will be able to differentiate between types of learning
October	Human memory	12hrs	Narrate a story to your friend and ask her/him to write it down after an hour. Also request her	Students will be able to describe three stages involved in memory, identify the three forms in which we process information, differentiate

			<p>/him narrate what s/he had written to another person. Continue this process till you have at least 5 versions of the original story. Compare the various versions and identify constructive processes in memory</p>	<p>between short- term and long-term memory</p>
November	Thinking	10Hrs	<p>Observe children of 1 year, 2 years, and 3 years old over a period of one week. Record the speech and note how the child is learning words and how many words the child has learnt over this period</p>	<p>Students will be able to learn about the three states of matter and arrangement of particles</p>
December	Motivation and emotion	12hrs.	<p>Write down your daily routine. This should include the activity undertaken, as well as the time when it is done. For example, if you watch television between 7 p.m. and 8 p.m daily, you should write down the time as well as the activity. Put in as many detail as</p>	<p>Students should be able to differentiate between biological motives (e.g., hunger, thirst) and psychosocial motives (e.g., achievement, affiliation)</p>

			you can. You could include names of the specific programmes you watch on Television.	
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**Subject:- HINDUSTANI MUSIC      Name of the Book: SWAR GYAN**

<b>MONT H</b>	<b>CHAPTER</b>	<b>LEARN ING HOURS</b>	<b>ACTIVITY</b>	<b>LEARNING OBJECTIVE</b>
<b>APRIL</b>	Naad,Shruti Swara,Saptak Teentaal on hands	06	Recite taal on hands and count beats with Tabla	Students will get to know about the different musical basic concepts and the taal as well.
<b>MAY</b>	A Devotional Song Thaat,Jati,Laya, Taal Char taal <b>PRE-MID EVALUATION</b>	03	Singing devotional song individually	Students will get to know about the beauty of Devotional Music along with learning the concepts and taal.
<b>JUNE</b>	<b>SUMMER VACATION</b>			
<b>JULY</b>	Raga,Deshi & Margi Sangeet Raga Bihag- Drut Khyal and Notation Ektaal Pt. V.N.Bhatkhande	06	Singing raga individually & finding songs based on Raga Bihag	Students will get to know about the beauty of Raga Music along with learning the concepts and grammar of music.
<b>AUGUS T</b>	Raga Bihag- Drut Khyal Pt. V.D.Paluskar Structure of Tanpura	06	Making PPT on Pt V.D. Paluskar	Students will get to know about the structure & utility of Tanpura

<b>SEPTEMBER</b>	<b>MID TERM EVALUATION</b>			
<b>OCTOBER</b>	Raga Bhimplasi- Drut Khyal and Notation Dhrupad,Khyal, Tarana	06	Singing raga individually & finding songs based on Raga Bhimplasi	Students will get to know about the beauty of Raga Music along with learning the concepts and grammar of music.
<b>NOVEMBER</b>	One Slow Khyal with Notation Musical Elements in Natya shastra	06	Creating one taan mathematically	Students will be aware of the great Indian Music history.
<b>DECEMBER</b>	<b>POST MID TERM EVALUATION</b>			
<b>JANUARY</b>	Raga Bhairvi- Drut Khyal and Notation Tansen-Life- Sketch	06	Intra-Class PPT Competition on any one curricular topic	Students will get to know about the beauty of Raga Music along with learning the concepts and grammar of music.
<b>FEBRUARY</b>	One Dhrupad Revision	06	Stage Performance to prepare for exam.	Students will get to know about the beauty of Dhrupad Gayaki.
<b>MARCH</b>	<b>FINAL TERM EVALUATION</b>			

Name of books - **लालाभी पंजाबी 11**

Subject - **पंजाबी**

<b>Month</b>	<b>Topic</b>	<b>No. of periods/ HRS</b>	<b>ACTIVITY</b>	<b>Learning Outcomes</b>

<p>April - May</p>	<p>ਲੋਕ ਗੀਤ – ਸੁਹਾਗ  1. ਚੜ੍ਹ ਚੁਬਾਰੇ ਸੁੱਤਿਆ  2. ਬੇਟੀ, ਚੰਨਣ ਦੇ ਓਹਲੇ  3. ਦੇਈਂ ਦੇਈਂ ਵੇ ਬਾਬਲਾ  4. ਅੱਸੂ ਦਾ ਕਾਜ ਰਚਾ  5. ਹਰੀਏ ਨੀ ਰਸ ਭਰੀਏ ਖਜੂਰੇ  6. ਨਿਵੇ ਪਹਾੜਾਂ ਤੇ ਪਰਬਤ  7. ਸਾਡਾ ਚਿੜੀਆਂ ਦਾ ਚੰਬਾ  8. - ਨਿੱਕੀ ਜਿਹੀ ਸੁਈ ਵੱਟਵਾਂ ਧਾਰਾ</p>	<p><b>4:30 mins</b></p>	<p>ਵਿਦਿਆਰਥੀ ਸੁਹਾਗ ਲੈਅ ਬੱਧਤਾ ਨਾਲ ਗਾਉਣਗੇ।</p> <p>ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਸੁਹਾਗ ਗਾਇਨ ਮੁਕਾਬਲਾ ਕਰਵਾਇਆ ਜਾਵੇਗਾ।</p>	<p>ਲੜਕੀਆਂ ਦੇ ਵਿਆਹ 'ਤੇ ਗਾਏ ਜਾਂ ਵਾਲੇ ਗੀਤਾਂ ਨੂੰ ਸੁਹਾਗ ਕਿਹਾ ਜਾਂਦਾ ਹੈ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਗਈ।</p> <p>ਸੁਹਾਗ ਲੈਅ ਵਿੱਚ ਕਿਵੇਂ ਗਾਏ ਜਾਂਦੇ ਹਨ ਅਤੇ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਵਿੱਚ ਇਹਨਾਂ ਦਾ ਕੀ ਸਥਾਨ ਹੈ? ਉਸ ਬਾਰੇ ਚਾਨਣਾ ਪਾਇਆ ਗਿਆ।</p> <p>ਵਿਦਿਆਰਥੀ ਸੁਹਾਗ ਨੂੰ ਪੜ੍ਹ ਕੇ ਰਿਸ਼ਤਿਆਂ ਦੀ ਓਹਨਾ ਦੀ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਕੀ ਅਹਿਮੀਅਤ ਹੈ ਉਸ ਬਾਰੇ ਜਾਨਣਗੇ।</p>
<p>May</p>	<p>ਦੰਤ - ਕਥਾ -1. ਪੂਰਨ ਭਗਤ</p>	<p><b>1:10 mins</b></p>	<p>ਵਿਦਿਆਰਥੀ ਨਾਟ ਸ਼ੈਲੀ ਦੁਆਰਾ ਇਹਨਾਂ ਦੰਤ - ਕਥਾਵਾਂ ਨੂੰ ਸਟੇਜ ਤੇ ਫਿਲਮਾਉਣਗੇ।</p>	<p>ਵਿਦਿਆਰਥੀ ਇਹਨਾਂ ਦੰਤ ਕਥਾਵਾਂ ਨੂੰ ਪੜ੍ਹ ਕੇ ਆਪਣੇ ਹੱਕਾਂ ਪ੍ਰਤੀ ਅਵਾਜ਼ ਨੂੰ ਬੁਲੰਦ ਕਰਨਾ, ਆਤਮਿਕਤਾ ਵਾਲਾ ਜੀਵਨ ਜਿਉਣਾ ਅਤੇ ਗਰੀਬਾਂ ਦੀ ਸਿੱਖਿਆ ਪ੍ਰਾਪਤ ਕਰ ਰਹੇ ਹਨ।</p>
<p>May</p>	<p>ਅਣਡਿੱਠਾ ਪੈਰਾ</p>	<p>35mins</p>	<p>ਵਿਦਿਆਰਥੀ ਪੈਰਾ ਹੱਲ ਕਰਨਗੇ</p>	<p>ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਪੜ੍ਹਨ ਅਤੇ ਵਿਚਾਰਨ ਦੀ ਸੂਝ ਪੈਦਾ ਹੋ ਗਈ ਹੈ।</p>
<p>May</p>	<p>ਅਖ਼ਬਾਰਾਂ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਪੱਤਰ   ਇਸ਼ਤਿਹਾਰ ਲਿਖਣ/ ਸੱਦਾ ਪੱਤਰ</p>	<p><b>2:15mins</b></p>	<p>ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸੰਪਾਦਕ ਬਣਾ ਕੇ ਸੰਪਾਦਕੀ ਕਰਨ ਲਈ ਕਿਹਾ ਗਿਆ</p> <p>ਵਿਦਿਆਰਥੀ ਆਪਣੇ ਕਿਸੇ ਰਿਸ਼ਤੇਦਾਰ ਨੂੰ ਸੱਦਾ ਪੱਤਰ ਲਿਖ ਕੇ ਭੇਜਣਗੇ</p>	<p>ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੱਤਰ ਲਿਖਣ ਦੀ ਜਾਚ ਕਰਵਾਉਣਾ ਅਤੇ ਆਪਣੀਆਂ ਸਮੱਸਿਆਵਾਂ ਨੂੰ ਸਰਕਾਰ ਤੱਕ ਪੁਹੰਚਾਉਣ</p> <p>ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਸ਼ਤਿਹਾਰ ਲਿਖਣ ਦੇ ਕਾਬਲ ਕਰਨਾ</p>

			PRE MID TERM EXAMINATION	
July	ਦੰਤ - ਕਥਾ - 2. ਰਾਜਾ ਰਸਾਲੂ 3. ਦੁੱਲਾ ਭੱਟੀ	2:15 mins	ਵਿਦਿਆਰਥੀ ਨਾਟ ਸ਼ੈਲੀ ਦੁਆਰਾ ਇਹਨਾਂ ਦੰਤ - ਕਥਾਵਾਂ ਨੂੰ ਸਟੇਜ ਤੇ ਫਿਲਮਾਉਣਗੇ।	ਵਿਦਿਆਰਥੀ ਇਹਨਾਂ ਦੰਤ ਕਥਾਵਾਂ ਨੂੰ ਪੜ੍ਹ ਕੇ ਆਪਣੇ ਹੱਕਾਂ ਪ੍ਰਤੀ ਅਵਾਜ਼ ਨੂੰ ਬੁਲੰਦ ਕਰਨਾ, ਆਤਮਿਕਤਾ ਵਾਲਾ ਜੀਵਨ ਜਿਉਣਾ ਅਤੇ ਗਰੀਬਾਂ ਦੀ ਸਿੱਖਿਆ ਪ੍ਰਾਪਤ ਕਰ ਰਹੇ ਹਨ।
July	ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ (ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ ਅਤੇ ਵੱਖ - ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ)	2:15mins	ਡਾਇਲਾਗ ਰੂਪਾਂਤਰਨ ਨਾਲ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਅਨੁਵਾਦ ਕਰਨ ਲਈ ਕਿਹਾ ਗਿਆ।	ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਦਫ਼ਤਰੀ ਭਾਸ਼ਾ ਵਿੱਚ ਵਰਤੇ ਜਾਂਦੇ ਸ਼ਬਦਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋ ਗਈ ਹੈ
August	ਸਿੱਠਣੀਆਂ	2:15 mins	ਸਿੱਠਣੀਆਂ ਨੂੰ ਲੈਅਬੱਧ ਤਰੀਕੇ ਨਾਲ ਵਿਦਿਆਰਥੀਆਂ ਦੁਆਰਾ ਗਾਇਆ ਗਿਆ।	ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਵਿੱਚ ਪੁਰਾਣੇ ਵਿਆਹਾਂ ਵਿੱਚ ਕਿਸ ਤਰ੍ਹਾਂ ਦਾ ਹਾਸੀ ਮਜ਼ਾਕ ਕੀਤਾ ਜਾਂਦਾ ਸੀ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਇਆ ਗਿਆ।
August	ਬੁਝਾਰਤਾਂ	1:10mins	ਇਕਾਂਗੀ ਦੇ ਵਿੱਚੋਂ ਕਿਸੇ ਵੀ ਇੱਕ ਪਾਤਰ ਦਾ ਕਿਰਦਾਰ ਅਦਾ ਕਰਨਾ	ਪੁਰਾਣੇ ਸਮਿਆਂ ਵਿੱਚ ਨਾਨੀ ਦਾਦੀ ਦੀ ਗਿਆਨ ਦੀ ਜਾਣਕਾਰੀ
			MID TERM EXAMINATION Internal Assessment - Project - 10 marks	
October	ਘੋੜੀਆਂ - 1. ਹਰਿਆ ਨੀ ਮਾਲਣ 2. ਮੈਂ ਬਲਿਹਾਰੀ ਵੇ ਮਾਂ ਡਾ ਸੁਰਜਣਾ 3. ਮੱਥੇ 'ਤੇ ਚਮਕਣ ਵਾਲ 4. ਨਿੱਕੀ - ਨਿੱਕੀ ਬੁੰਦ 5. ਸਤਿਗੁਰਾਂ ਕਾਜ ਸਵਾਰਿਆ ਈ	4:30 mins	ਘੋੜੀਆਂ ਨੂੰ ਗਾਉਣ ਦੇ ਤਰੀਕੇ ਦਾ ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਮੁਕਾਬਲਾ ਕਰਵਾਇਆ ਜਾਵੇਗਾ	ਘੋੜੀਆਂ ਕਿਵੇਂ ਗਈਆਂ ਜਾਂਦੀਆਂ ਹਨ ਅਤੇ ਪ੍ਰਾਉਣਜਾਬੀ ਸੱਭਿਆਚਾਰ ਵਿੱਚ ਇਹਨਾਂ ਦਾ ਕੀ ਸਥਾਨ ਦੱਸਿਆ ਗਿਆ ਹੈ। ਘੋੜੀਆਂ ਵਿੱਚ ਲੜਕੇ ਦੇ ਦਾਦਕੇ ਪਰਿਵਾਰ ਵਾਲਿਆਂ ਦੀ ਆਪਸ ਵਿੱਚ ਕਿੰਨੀ ਕੁ ਸਾਂਝ ਹੈ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ।

October	ਵਿਆਕਰਨ - ਮੁਹਾਵਰੇ	1:30 mins	ਵਿਦਿਆਰਥੀ ਆਪਣੀ ਨਿੱਤ ਵਰਤੋਂ ਦੀ ਵਾਰਤਾਲਾਪ ਵਿਚ ਮੁਹਾਵਰੇਦਾਰ ਬੋਲੀ ਵਰਤਣਗੇ।	ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਸ਼ਬਦ ਭੰਡਾਰ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਗਿਆਨ ਵਿਚ ਵਾਧਾ ਹੋਏਗਾ।
October	ਚਿੱਠੀ ਪੱਤਰ ਸੰਪਾਦਕ ਨੂੰ ਪੱਤਰ	1:15mins	ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸੰਪਾਦਕ ਬਣਾ ਕੇ ਸੰਪਾਦਕੀ ਕਰਨ ਲਈ ਕਿਹਾ ਗਿਆ	ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੱਤਰ ਲਿਖਣ ਦੀ ਜਾਚ ਕਰਵਾਉਣਾ ਅਤੇ ਆਪਣੀਆਂ ਸਮੱਸਿਆਵਾਂ ਨੂੰ ਸਰਕਾਰ ਤੱਕ ਪੁਹੰਚਾਉਣਾ
November	ਬੋਲੀਆਂ, ਢੋਲਾ, ਮਾਹੀਆ ਅਤੇ ਟੱਪੇ:- ਸਾਡੇ ਪਿੰਡ ਦੇ ਮੁੰਡੇ ਵੇਖ ਲਓ ਪਿੰਡ ਤਾ ਸਾਡੇ ਪਿੰਡਾਂ ਵਿੱਚੋਂ ਪਿੰਡ ਸੁਣੀਂਦਾ ਕਲਿਆ ਹਰਨਾ ਸੁਣ ਨੀ ਕੁੜੀਏ ਮਹਿੰਦੀ - ਮਹਿੰਦੀ ਹਰ ਕੇਈ ਕਹਿੰਦਾ ਦੇਸ ਮੇਰੇ ਦੇ ਬਾਂਕੇ ਗੱਭਰੂ ਤਾਰਾਂ - ਤਾਰਾਂ - ਤਾਰਾਂ ਢੋਲਾ - ਕੰਨਾਂ ਨੂੰ ਸੋਹਣੇ ਬੂੰਦੇ ਬੁੱਤ ਬਨੋਟਿਆ ਉਭੇ ਦੇ ਬੱਦਲ ਮੀਆਂ ਰਾਂਝਾ ਕੈਲੀਆ ਤੇ ਕਾਲੀਆਂ ਮੱਝਾਂ	4:15 mins	ਵਿਦਿਆਰਥੀ ਬੋਲੀਆਂ, ਢੋਲਾ, ਮਾਹੀਆ ਅਤੇ ਟੱਪੇ ਢੋਲਕੀ ਤੇ ਗਾਉਣਗੇ।	ਵਿਆਹ ਵਾਲੇ ਘਰ ਵਿੱਚ ਵਿਆਹ ਤੋਂ ਪਹਿਲਾਂ ਗੀਤ ਰੱਖੇ ਜਾਂਦੇ ਹਨ। ਕੁੜੀਆਂ ਆਪਸ ਵਿਚ ਬੋਲੀਆਂ, ਅਤੇ ਟੱਪਿਆਂ ਮਾਹੀਆ, ਢੋਲਾ ਦਾ ਮੁਕਾਬਲਾ ਕਰਦੀਆਂ ਹਨ।
November	ਲੇਖ ਰਚਨਾ ਵਿਚਾਰ ਪ੍ਰਧਾਨ ਅਤੇ ਆਮ ਵਿਸ਼ੇ ( 200 ਵਿੱਚ)	4:30 mins	ਵਿਦਿਆਰਥੀ ਆਪਣੀ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਬਿਨਾ ਰੁਕਾਵਟ ਲੇਖ ਲਿਖ ਸਕਦੇ ਹਨ	ਵਿਦਿ ਸੰਬੰਧਤ ਵਿਸ਼ੇ ਬਾਰੇ ਜਾਣੂ ਹਨ

December			POST MID TERM EXAMINATION	
January	ਬੈਂਕ, ਰੇਲਵੇ, ਡਾਕ, ਬੀਮਾ - ਸੇਵਾਵਾਂ ਤੇ ਕੰਪਿਊਟਰ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ	2:15mins	ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵਰਕਸ਼ੀਟ ਤੇ ਪ੍ਰਸ਼ਨ/ਉੱਤਰ ਕਰਨ ਲਈ ਦਿੱਤੇ ਜਾਣਗੇ।	ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਸ਼ਬਦ ਭੰਡਾਰ ਅਤੇ ਭਾਸ਼ਾਵਾਂ ਦੇ ਗਿਆਨ ਵਿਚ ਵਾਧਾ ਹੋਇਆ।
January	ਪ੍ਰੀਤ ਕਥਾਵਾਂ :- 1. ਹੀਰ - ਰਾਂਝਾ 2. ਮਿਰਜ਼ਾ - ਸਾਹਿਬਾਂ	2:15 mins	ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਕੋਈ ਵੀ ਕਹਾਣੀ ਲਿਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਕੀਤਾ ਜਾਵੇਗਾ।  ਵਿਦਿਆਰਥੀ ਇਤਿਹਾਸ ਨਾਲ ਸੰਬੰਧਿਤ ਕਿਤਾਬਾਂ ਪੜ੍ਹਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।	ਵਿਦਿਆਰਥੀ ਇਹਨਾਂ ਪ੍ਰੀਤ ਕਥਾਵਾਂ ਰਾਹੀਂ ਪੁਰਾਤਨ ਸੱਭਿਆਚਾਰ ਤੋਂ ਜਾਣੂ ਹੋ ਗਏ ਹਨ ਅਤੇ ਪਿਆਰ ਦੀ ਸੁੱਚਤਾ ਨੂੰ ਸਮਝ ਗਏ ਹਨ।
February			REVISION  Internal Assessment - listening and speaking skills = 5+5= 10 M	
March			FINAL TERM EXAMINATION	

### ARTIFICIAL INTELLIGENCE (SUB. CODE - 843)

Month	Unit/Topic	Hours	Activity/Practical	Learning Outcomes
April	Unit 1: Communication Skills – III (Employability Skills)	15 hrs	Role-plays, Listening & Speaking Activities	Develop effective communication and workplace interaction skills
	Unit 1: Introduction to Artificial Intelligence for Everyone	4 hrs (theory), 10 hrs (practical)	Categorize AI applications, explore domains, complete IBM SkillsBuild module	Understand AI history, types, terminologies, benefits & limitations
May	Unit 2: Self-Management	10 hrs	SWOT Analysis, Goal-setting, Stress Management Activities	Develop self-awareness, motivation, stress management, and personal goal strategies

	Unit 2: Unlocking Your Future in AI	6 hrs (theory), 10 hrs (practical)	Explore AI job roles, create skill charts, IBM SkillsBuild Job Landscape module	Understand AI careers, skills needed, and industry expectations
July	Unit 3: ICT Skills – III (Employability Skills)	15 hrs	Using Word processors, Spreadsheets, Internet tools	Gain digital fluency for research and workplace productivity
	Unit 3: Python Programming	10 hrs (theory), 20 hrs (practical)	Basic programs (operators, control flow), Numpy, Pandas, Scikit-learn	Gain foundational and applied Python skills for AI
August	Unit 4: Entrepreneurial Skills – III (Employability Skills)	10 hrs	Case studies, Business Idea Pitch	Understand entrepreneurial mindset and basic business concepts
	Unit 4: Introduction to Capstone Project	6 hrs (theory), 15 hrs (practical)	Create empathy map, apply design thinking to real- world problem	Understand design thinking and SDG alignment in AI project planning
September	Unit 5: Data Literacy – Collection to Analysis	6 hrs (theory), 15 hrs (practical)	Python data analysis & visualization using matplotlib, summary statistics	Gain skills in data collection, interpretation, visualization and pre- processing
October	Unit 5: Green Skills – III (Employability Skills)	10 hrs	Poster-making, Sustainable practices brainstorming	Understand the importance of sustainability and environment-friendly innovation
	Unit 6: Machine Learning Algorithms	9 hrs (theory), 15 hrs (practical)	Regression, kNN, Clustering via Python/Excel	Understand and apply ML methods like regression, classification, clustering
November	Unit 7: Leveraging Linguistics and Computer Science (NLP)	5 hrs (theory), 10 hrs (practical)	Create chatbot, sentiment analysis, IBM NLP tools	Explore NLP challenges, phases, and build chatbots
December	Unit 8: AI Ethics and Values	4 hrs (theory), 5 hrs (practical)	Bias games, video reflection, AI policy comparison	Understand ethical use of AI, biases, and fairness
January	Practical File Compilation + Viva Voce Prep	10 hrs	File with 15+ tasks, internship/bootcamp	Show portfolio of hands- on experience and understanding

			certificate, IBM credentials	
February	Capstone Project Implementation & Submission	12 hrs	Project problem, empathy map, SDG mapping, solution using AI tools	Apply all learned AI concepts to a real-world issue

**Subject:- Painting      Name of the book- Panoramic Indian painting (for theory)**

MONTH	CHAPTER NO & NAME	HOURS	ACTIVITY	LEARNING OUTCOMES
APRIL AND MAY	1. Prehistoric Rock Paintings	10	Sketch simple motifs inspired by rock paintings.	Students identify features and themes of prehistoric art and recreate simplified versions.
JULY AND AUGUST	2. Art of Indus Valley Civilization	10	Create a clay seal or sketch a Harappan motif.	Students recognize and replicate stylistic elements from Indus Valley art.
SEP AND OCT	3. Buddhist, Jain and Hindu Art (Mauryan to Gupta Period)	12	Create a mural-style sketch or sculpture drawing based on Indian religious art.	Students distinguish styles of Buddhist, Jain, and Hindu art and interpret religious themes.
NOV AND JAN	4. Temple Sculptures, Bronzes and Artistic Aspects of Indo-Islamic Architecture	12	Draw temple motifs and arches or geometric patterns; short model-making (e.g., clay relief work or paper arches).	Students recognize and compare features of temple sculpture and Indo-Islamic architecture; apply stylistic features in practical tasks.

**Subject: Physical Education****Book: NCERT**

<b>Month</b>	<b>No. of Periods / Hrs.</b>	<b>Topics</b>	<b>Activity</b>	<b>Learning Outcomes</b>
<b>April</b>	6	Unit 1: Changing Trends & Career in Physical Education	Group discussion on career paths in sports	Students identify trends and career scopes in PE.
<b>May</b>	4	Unit 2: Olympic Value Education	Create Olympic value posters	Students appreciate Olympic ideals and symbols.
<b>July</b>	6	Unit 3: Yoga	Practice yoga postures	Students perform asanas and understand their impact.
<b>August</b>	5	Unit 4: PE & Sports for CWSN	Role-play inclusive sports activities	Students promote inclusive practices in sports.
<b>September</b>	6	Unit 5: Physical Fitness, Wellness	Fitness circuit	Students perform fitness routines and track progress.
<b>October</b>	5	Unit 6: Test, Measurements & Evaluation	Conduct BMI and endurance test	Students conduct and record PE evaluations.
<b>November</b>	6	Unit 7: Anatomy & Physiology in Sports	Label body diagrams	Students connect body systems to sports performance.
<b>December</b>	4	Unit 8: Kinesiology & Biomechanics	Analyze a movement in sports	Students analyze biomechanics in motion.
<b>January</b>	4	Unit 9: Psychology & Sports	Prepare stress-coping skit	Students understand motivation and mental fitness.
<b>February</b>	5	Unit 10: Training & Doping in Sports	Debate on doping in sports	Students advocate fair play and ethical training.
<b>Throughout Year</b>	-	<b>Practical (Lab): Including 3 Practicals</b>	Fitness test, team games, yoga	Students apply physical skills and maintain fitness.