

ANNUAL PEDAGOGICAL PLAN 2026-27
CLASS XI – ENGLISH

MON TH	TOPIC	METHODOLOGY/ACTIVITIES	LEARNING OUTCOMES	WORKING DAYS
JUNE	1. The Portrait of a Lady	1) The Portrait of a Lady: To enable the students to i) be independent in thought and action ii) understand the feelings of parents and grandparents iii) know that distancing due to circumstances never affects relations iv) understand that graph of life never follows a straight line v) show care and concern for animals . GROUP DISCUSSION ON The Portrait Of A Lady is a reminder about the growing distance between the young and the older generation.	1) The Portrait of a Lady: The students will be able i) to develop an independent attitude in thought and action ii) to accept and manage the situations with patience and tolerance iii) to know the expressions used in the lesson and their usage iv) To know the sacrifices and support given by the grandparents in the family.	
	2) A Photograph	2) A Photograph: To enable the students to i) Care and share, love and affection, togetherness ii) change is the harsh and bitter reality of life. iii) Analyze that death is the inevitable end of all. ACTIVITY: 1. Warm up activity-Recapitulation of Figures of Speech with examples Activity (to support learning) Progress in Photography technology Skills: Comprehension, analytical skill, thinking skill, language skill, photography skills, life skills Activity/Assignment (to check learning) The three	2) A Photograph: The students will be able to-i) understand the importance of human relationship. ii) Understand the nostalgic experiences of the past. iii) Understand that the moments of life have been permanently etched in the poet's mind with a feeling of eternal loss. iv) Understand that death is imminent and human life is mortal.	
	3) The Summer of the Beautiful White Horse			

	4) Writing Skills: Advertisement	stanzas depict three different phases. What are they? The Summer of the Beautiful White Horse: To enable the students to i) inculcate the values like honesty, faith, trust ii) Share responsibility with the members of the family. iii) Show care and concern for animals. iv) Respect the values and traditions of the family. Advertisement: The students will be able to i) Inculcate values like share ideas, freedom to express and acceptance of ideas. ii) Make use of appropriate formats, expressions and vocabulary. iii) Write formal letters, articles, speech, debate, reports and other short writing	3) The Summer of the Beautiful White Horse: The students will be able to i) enjoy humorous piece ii) inculcate values like honesty, trust, responsibility etc iii) Deal with the temperament of different family members to create a bond. iv) be generous towards animals Advertisement: The students will be able to write advertisements with appropriate vocabulary and expressions. Advertisement: The students will be able to write advertisements with appropriate vocabulary and expressions.	
JULY	1) We're Not Afraid To Die.... If all can be together. 2) Note Making	<u>We're not afraid to die:</u> To enable the students i) to know the expressions and phrasal verbs used in the lesson and their usage ii) to enhance and enrich the vocabulary iii) to know homonyms for 'storm' and 'vessel' iv) to comprehend the text and enjoy the adventurous expedition v) realize that hazardous experience teach us to face the adverse circumstances with courage vi) understand the parts of ship and different terms/words related to voyage	<u>We're not afraid to die:</u> The students will be able to i) learn the parts of ship and different terms/words related to voyage ii) understand the expressions and phrasal verbs used in the lesson and their usage iv) understand that presence of mind along with the practical knowledge is important to take instant decisions v) know that determination and self-confidence can conquer adverse circumstances vi) inculcate values of sharing, caring and responsible attitude towards others <u>Note Making:</u> -Express effectively, sharing ideas	26

		<u>Note Making:</u> Guide and motivate students to express and write effectively. -Develop knowledge and purpose of writing notes. -Awareness of the form, content and process of writing. -Able to retain a data and information. -Organize ideas on a particular subject. -Practice to enhance the skills and note making. ACT Note Making: Pre-activity: Projector will be used to show as to how to write notes, a sample note along with discussion and explanation. Post activity: Worksheet based on Note making <u>The Laburnum Top:</u> To enable the students to i) inculcate the value of admiring nature ii) Seeking pleasure from nature and its bounty.iii) Facing hardships of life. ACTIVITY The Laburnum Top: i) Assignments ii) Comprehension questions: -Why has the poem been called "The Laburnum Top -„It is the engine of her family, she strokes it full . Explain the significance of these lines. -What do you notice about the beginning and the ending of the poem? <u>The Address:</u> Enables the students to- i) read effectively with proper	and develop appropriate style of writing and develop good notes during the class room sessions. <u>The Laburnum Top:</u> The students will be able to: i) Think, analyze and observe. li) know how to identify rhyming scheme ii) enjoy the beauty of nature iv) understand the hardships of life and how to overcome them	
	3) The Laburnum Top			
	4) The Address		The Address: i) it will enable the students to inculcate the values like courage, empathy, sensitivity and critical thinking in maintain relations. li) to learn from past experiences iii) to learn to move on in life iv) to understand and	

		voice modulation. ii) comprehend the Chapter. iii) Enhance their vocabulary. iv) Analyze the situations and characters. v) Express themselves effectively in the written form. vi) Communicate their ideas with a lot of conviction ACTIVITY: i) Pre-activity: *Sharing ii) experience about the significance of articles / memories and people. iii) Theme of the story	appreciate family values and bonding.	
AUGUST	2) Discovering Tut Grammar : Reordering of sentences	Discovering Tut: To enable the students to i)inculcate the values of concern, responsibility, curiosity and respect ii)Respect other's beliefs, customs, rituals iii)Feel pride in using technology to unfold the mysteries iv)Develop inquisitiveness towards historical events and people ACTIVITY Discovering Tut: Activity :(to introduce the lesson) Power point presentation on Egypt and pyramids Activity :(to support learning) Power point presentation on King Tut s Mummy, his valuable treasure The chapter will be explained through slides, giving explanation and asking questions. Skills: Enhance reading, comprehending thinking skills, analytical skills, Literary skills and Observation skills. Reordering of sentences: Students will be able to learn the importance of re	Discovering Tut: The students will be able to i)Think, analyse and observe ii)Know the meanings of new phrases iii)Satisfy their curiosity about King Tut s mummy iv)Know about the archaeology and advancement in technologies v)Understand the wastefulness of war Reordering Students will understand the importance of framing	23

		ordering the sentences They will brush up their knowledge of having the words in form of brain storming. ACTIVITY: practice of jumbled sentences from tenses and verbal phrases.	the sentences and the correct placement of words.	
SEPTEMBER	The Voice of the Rain	<u>The Voice of The Rain:</u> The students would be able to grasp the theme and meaning of the poem. They would be able to read the poem with proper tone and rhyme and develop an interest in poetry. Their vocabulary would be strengthened. They would be able to draw a comparative study between human life and nature ACTIVITY Recitation and self Study [group work of 3 on poetry writing on the wind, sun, moon or snow-highlighting the pride in their narration	<u>The Voice of The Rain:</u> Students will inculcate values like care and concern to save environment ii) develop imaginative and analytical skills iii) realise the importance of saving natural resources iv) understand the process of sustainable development	12
	REVISION FOR PRE MID TERM			
OCTOBER	Mother's Day Writing Skills: Poster	<u>Mother's Day:</u> To enable the students to i) imbibe values like care and concern, empathy, compassion, respect for elders, belongingness and tolerance ii) understand the struggles and sacrifices of parents and to draw inspiration from them ii) strengthen the family bonding with sharing and solving problems iii) accept the members of the family without complaining iv) realize the worth of sacrifice and struggles of parents for the children. ACTIVITY	<u>Mother's Day:</u> The students will be able to i) Know that mothers have equal rights to enjoy their lives and deserve acknowledgement and appreciation. ii) Strengthen the family bonding with sharing and solving problems. iii) Develop analytical skills, thinking skills, decision making, management skills, and logical skills. iv) identify and understand the	15

		Activity: (to support learning) i) Is drama a good medium for conveying a social message? Discuss ii) Mother works from morning till night catering to the needs of everyone. Do we ever realize that she too is a human being and needs rest? Share your views about the role of mother in your life. Poster: The students will be able to i) inculcate values like share ideas, freedom to express and acceptance of ideas. ii) Make use of appropriate formats, expressions and vocabulary. iii) Appreciate the skill of expressing ACTIVITY Poster: Pre-activities: *Purpose and significance of the skill Activity: (to support learning) i) Sample Posters will be formal shown on the screen. ii) Use of projectors to show different model exercises based on the skills. Skills: reading skill, thinking skill and writing skill	value of Mother in the family. Poster Guide the students to write effectively. ii) To be precise and to the point. iii) write with appropriate vocabulary and expressions. iv) The students will be able to express their ideas by designing a poster	
NOVEMBER	Childhood Birth	Childhood: To enable the students to i) inculcate the values of accepting differences, understanding people, becoming sensible, valuing childhood and freedom ii) develop individuality iii) search for and gain innocence like a child ACTIVITY :Activity: (to introduce the lesson) Warm up activity i) Share your childhood experience (How you were innocent) ii) How can you define “maturity ? Can we exactly say at	Childhood:: The students will be able to i) Think, analyse and observe ii) Know how to identify rhyme scheme iii) Gain individuality iv) Differentiate between innocence and maturity v) Respect different people vi) Appreciate poem vii) Learn where and when has his childhood gone Birth: They would be able to enhance their comprehension skills. They would	22

		what age you became mature? <u>Birth:</u> The students will be able to i) Understand as to how to face and deal challenging situations and come up with an appropriate solution for the same. ii) Understand that the narrator's bitter experience of her came as a stark contrast to accounts he had read of earlier travelers iii) Analyze the trip to be adventurous iv) praise and appreciate the dull but small town. v) Realize that people could work as a team to be successful. vi) Understand that the author thought that his positive thinking strategy will work. ACTIVITY Activity: (To support learning) i) Noble profession of doctors and service to mankind. ii) There lies a great difference between textbook medicine and the world of a practicing physician. Skills: comprehension skill, analytical skill, sensitivity, awareness, presence of mind, time management, language skills and thinking skill.	develop their Optimistic attitude towards life amidst many struggles. They would be able to make connections between similar situations in different storylines/life experiences	
DECEMBER	Writing Skills: Debate Writing Speech Writing	<u>Debate & Speech Writing:</u> The session would start with a pre-writing activity to create an interest towards writing. The teacher would define the difference between a Debate & a Speech and discuss the purpose of article writing through PPT The different styles, subjects, purpose of debate & Speech writing would be	<u>Debate & Speech Writing:</u> The students would develop an interest towards writing. Their planning and organizing techniques would be enhanced. They would be able to research on any subject and derive information from facts and present in the form of a written piece. Their	19

		discussed. The teacher would explain the technique of accumulating ideas, focusing on ideas and facts, planning, organizing, evaluating, structuring and editing. They would be taught the importance and way of producing a finished piece of work with examples. The requirements of the content, beginning, body and end would be focused. ACTIVITY: Students will be divided in groups and Debate as well as Speech Competitions will be conducted in the class. To ensure that students understand the value and implementation of the ideas in both the activities.	creative writing would be analyzed. The interpreting and evaluative skills would be strengthened.	
	REVISION FOR FINAL TERM			
JANUARY	Assessment of Speaking and Listening Revision: -Grammar -Writing Skills Annual Exam Course Recap and revision of the Annual course including Grammar, Writing Skills and Literature.	ASL : Based on the project allotted to the students. Revision: -Grammar -Writing Skills - Annual Exam Course Worksheet based on unseen passage and note making and general grammar exercises for revision.	Recapitulation of the entire syllabus and solving of previous year papers	25
FEBRUAR Y	Revision: -Grammar -Writing Skills Annual Exam Course Recap and revision of the Annual course including Grammar, Writing Skills and Literature.	Revision: -Grammar -Writing Skills - Annual Exam Course Worksheet based on unseen passage and note making and general grammar exercises for revision.		10
REVISION FOR FINAL TERM				

CLASS XI - PHYSICS

Month	Unit/Topic	Methodology/Activity (Through On-line Lab Web-site)	Learning Outcome	Working days
June	Unit-1 Physical World and Measurement Chapter-2: Units and Measurements Need for measurement: Units of Measurement; systems of units; SI units, fundamental and derived units. Significant figures. Dimensions of physical quantities, dimensional analysis and its applications. Unit-2 Kinematics Chapter-3: Motion in a Straight Line Frame of reference, Motion in a straight line. Elementary concepts of differentiation and integration for describing motion, uniform and non-uniform motion, Instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).	1. Lecture Method using White board online 2. PPT slide 3. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Calipers and hence find its volume.	Emphasis on basic conceptual understanding of the Content. Emphasis on use of SI units, symbols, nomenclature of physical quantities and formulations as per international Standards.	10
July	Unit-2 Kinematics Chapter-4: Motion in a Plane Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, Unit vector; 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. Unit -3 Laws of Motion Chapter-5: Laws of Motion 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 friction, lubrication. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).	1. Lecture Method using Online White Board 2. Animation Video 3. To measure diameter of a given wire and thickness of a given sheet using screw gauge.	Providing logical sequencing of units of the subject matter and proper placement of concepts with their linkage for better Learning.	26

August	Unit-4 Work, Energy Power Chapter-6: 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: Conservation of mechanical energy (kinetic and potential energies); non-conservative forces: motion in a vertical circle; elastic and inelastic collisions in one and two dimensions. Unit-5 Motion of System of Particle and Rigid Body Chapter-7: 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.(Contd..)	1. Lecture Method using Online White Board 2. Animation Video 3. To determine radius of curvature of a given spherical surface by a spherometer.	Expose the learners to different processes used in Physics related industrial and technological applications.	23
September	Unit-5 Motion of System of Particle and Rigid Body Chapter-7: System of Particles and Rotational Motion 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).	1. Lecture Method using Online White Board 2. PPT Slide 3. To determine the mass of two different objects using a beam balance.	Develop process-skills and experimental, observational, manipulative, decision Making and investigatory skills in the learners. Promote problem solving abilities and creative thinking in learners.	12
Mid Term Exam				
October	Unit-6 Gravitation Chapter-8: 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 velocity, orbital velocity of a satellite Unit-7 Properties of Bulk Matter Chapter-9: Mechanical Properties of Solids Elastic behavior, Stress-strain relationship, Hooke's law, Young's modulus, Bulk modulus, shear modulus of rigidity, Poisson's ratio; elastic energy.	1. Lecture Method using Online White Board 2. PDF file 3. To find the weight of a given body using parallelogram law of vectors.	Develop conceptual competence in the learners and make them realize and appreciate the interface of Physics with other disciplines.	15

November	Chapter-10: 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, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its applications. 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-11: Thermal Properties of Matter. Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; C_p, C_v - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law.	1. Lecture Method using Online White Board 2. Animation Video 3. To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface. Using a simple pendulum, plot its $L-T^2$ graph and use it to find the effective length of second's pendulum.	Promotion of process skills, problem-solving abilities and applications of Physics concepts.	22
December	Unit-8 Thermodynamics Chapter-12: Thermodynamics Thermal equilibrium and definition of temperature (zeroth law of thermodynamics), heat, work and internal energy. First law of thermodynamics, isothermal and adiabatic processes. Second law of thermodynamics: reversible and irreversible processes Unit -9 Behavior of perfect Gases & Kinetic Theory of Gases Chapter-13: Kinetic Theory 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 equipartition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.	1. Lecture Method using Online White Board 2. Animation Video 3. To determine Young's modulus of elasticity of the material of a given wire. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.	Develop process-skills and experimental, observational, manipulative, decision making and investigatory skills in the learners. Promote problem solving abilities and creative thinking in learners.	19
January	Unit-10 Oscillations and Waves Chapter-14: Oscillations Periodic motion - time period, frequency, displacement as a function of time, periodic functions. Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum	1. Lecture Method using Online White Board 2. PPT slide 3. To determine specific heat capacity of a given solid by method of mixtures.	Providing logical sequencing of units of the subject matter and proper placement of concepts with their linkage for better learning. Reducing the curriculum load by eliminating overlapping of	25

	derivation of expression for its time period. Chapter-15: 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 harmonics, Beats. REVISION	4.To study the relation between frequency and length of a given wire under constant tension using sonometer.	concepts/content within the discipline and other disciplines.	
February	REVISION Practical Exam Annual Exam	Online Tests, Revision Worksheets, Practice of NCERT questions and NCERT Exemplar Problems and Previous Year Question Papers		10

CLASS XI -CHEMISTRY

Month	Topic	Methodology/ Activities	Learning Outcomes	Working Days
June	Unit 1: Some Basic Concepts of Chemistry General introduction, Law of chemical combination, Atomic & Molecular masses, mole concept, percentage composition, empirical & molecular formula, stoichiometry of chemical reactions.	Question Answer method. 1. Cutting of glass tube and rod. 2. Bending a glass tube. 3. Boring a cork. 4. Drawing a cork 5. Characterization and purification of chemical substances	Have firm foundations in the fundamentals and application of current chemical and scientific theories. Are able to design, carry out, record and analyze the results of chemical experiments. Are able to use modern instruments.	12
July	Unit 2: Structure of Atom Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg's uncertainty Principle, concept of orbitals, quantum number, shapes of s, p, d orbitals, rules for filling electrons in the orbitals. Electronic configurations.	Quantitative Estimation: 1. Using a chemical balance. 2. Preparation of standard solution of oxalic acid. 3. Determination of strength of a given solution of sodium hydroxide by titrating it against standard solution of oxalic acid. 4. Titration of sodium carbonate and HCl solutions.	Are skilled in problems solving, critical thinking and analytical reasoning. Are able to identify and solve chemical problems and explore new areas of research.	22 working days
August	Unit 3: Periodic classification of elements Modern periodic law and the present form of periodic table, periodic trends in properties of elements – atomic radii, ionization enthalpy, electron gain enthalpy, electronegativity, nomenclature of elements Z>100. Unit 4: Chemical Bonding Valence electrons, Ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond covalent character of ionic bond, valence bond theory, geometry & VSEPR Theory, Concept of Hybridization, Molecular orbitals theory	Qualitative Analysis: 1. Determination one anion and one cation in a given salt Cations: Pb^{2+} , Cu^{2+} , Al^{3+} , Fe^{2+} , Mn^{2+} , Ni^{2+} , Zn^{2+} , Co^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Mg^{2+} . Anions: CO_3^{2-} , S^{2-} , SO_3^{2-} , SO_4^{2-} , NO_3^- , Cl^- , Br^- , I^- , $\text{C}_2\text{O}_4^{2-}$, CH_3COO^- . (Note: Insoluble salts excluded)	Are able to use moder library, searching and retrieval methods to obtain information about a topic, chemical, chemical technique, or an issue relating to chemistry. Knows the proper procedures and regulations for safe handling and use of chemicals and can follow the proper procedures.	23 working days
September	REVISION FOR MID TERM			

October	Unit 5: Thermodynamics Concepts of System and surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics, Hess's law. Second law of thermodynamics- entropy, free energy. Third law of thermodynamics. Unit 6.1: Chemical Equilibrium- characteristics of Equilibrium & Equilibrium constant, Law of mass action, related numerical, Laechatteliar's Principle and application.	Qualitative Analysis inorganic chemistry (Continue) 1. Identification of cation& anion in the given inorganic salt. 2. characterization of inorganic compounds 3. Project work	Understanding the basic concepts of thermodynamics and kinetics as applied in chemistry. Understand the ethical, historic, philosophical, and environmental dimensions of problems and issues facing chemists. Find gain full employment in industry or government, be accepted at graduate.	19 working days
November	Unit 6.2: Ionic Equilibrium Ionization of acids and bases, strong and weak electrolytes, degree of ionization, concept of pH, Henderson equation, hydrolysis of salts (Elementary idea), buffer solution, common ion effect, solubility product Unit 7: Redox reaction: Concept of oxidation and reduction, redox reaction, oxidation number, balancing of redox reaction.	1. Qualitative analysis of inorganic salts 2. General introduction in qualitative analysis of organic compounds. 3. Melting & boiling points of compounds.	Have firm foundations in the fundamentals and application of current chemical and scientific theories. Are able to design, carry our record and analyze the results of chemical experiments. Are able to use modern instrumentation.	12 working days
DECEMBER	Unit-8: Some Basic concept in Organic Chemistry Glassification of organic compounds. Nomenclature system. Isomerism, structural isomerism and stereoisomerism. Electronic displacement effect in organic compounds. Reaction intermediates. Purification and characterisation of organic compounds.	1. General introduction in qualitative analysis of organic compounds. 2. Melting & boiling points of compounds. 3. Qualitative analysis of organic compounds to detect element present in organic compounds.	Have firm foundations in the fundamentals and application of current chemical and scientific theories. Are able to design, carry our record and analyze the results of chemical experiments. Are able to use modern instrumentation.	15 working days

January	Unit 9: Hydrocarbons General introduction & classification of hydrocarbons. Alkanes – methods of preparation, physical & chemical properties. Alkenes: methods of preparation, physical & chemical properties. Arynes: Aromaticity, methods of preparation of benzanoid compounds, physical & chemical properties,	Qualitative analysis of organic compounds (continue..)	Understanding the concepts of basicity & acidity in organic compounds, use of curly arrows. Knowledge of the basic mechanisms of organic reactions & their mechanisms. Basic reactions of Alkanes, Alkenes & Benzene.	23 working days
February	REVISION FOR FINAL TERM			18

CLASS XI - MATHEMATICS

MONTH	UNIT/TOPIC	METHODOLOGY/ ACTIVITIES	LEARNING OUTCOME	WORKING DAYS
June	SETS : Sets and their representations. Empty set. Finite and Infinite sets. Equal sets. Subsets. Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement Sets. Relation and Function Ordered pairs, Cartesian product of sets. Number of elements in the cartesian product of two finite sets. Cartesian product of the set of reals with itself (upto $R \times R \times R$). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. 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, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotient of functions.	To find the number of subsets of a given sets and verify that if a set has n number of elements, then the total no of subsets is 2. To verify that for two sets A and B, $n(A \times B) = pq$ and the total number of relation from A to B is 2^p , where $n(A) = p$ and $n(B) = q$. To distinguish between a relation and a function.	Students are able to solve the questions of Sets.	10

July	Trigonometry Positive and negative angles. Measuring angles in radians and in degrees and conversion by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2 x + \cos^2 x = 1$, for all x . Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple applications	To prepare a model to illustrate the values of sine function and cosine function for different angles which are multiples of π and	Students are able to solve the questions of Trigonometry	26
JULY	Trigonometry (General & Principle Solutions)		Students will be able to find the general and principle solutions of Trigonometric functions.	23
	Complex Number Need for complex numbers, especially $\sqrt{-1}$, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane and polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations (with real coefficients) in the complex number system.	To interpret geometrically the meaning of $i = \sqrt{-1}$ and its integral powers.	Students are able to solve the questions of Complex Number	
	Linear Inequality: Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line.		Students are able to shade the feasible region of Linear Inequalities and solve a Linear inequality.	

AUGUST	Statistics Measures of dispersion: Range, mean deviation, variance and standard deviation of ungrouped/grouped data.	Students are able to find variance and standard deviation of ungrouped/grouped data.	Students are able to solve the questions of Statistics	23
SEPTEMBER	REVISION FOR MID TERM EXAM			

OCTOBER	Permutation and combination : Fundamental principle of counting. Factorial n . ($n!$) Permutations and combinations, explanation of concept of formulae for and and their connections, simple applications Binomial Theorem: Expansion of expression $(a+b)^n$. Identify and calculate binomial coefficient. Find the general term in the expansion. Sequence and Series : Sequence and Series. Arithmetic Progression (A. P.). Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P., sum of first n terms of a G.P., infinite G.P. and its sum, Geometric mean (G.M.), relation between A.M. and G.M.	To understand the concept of permutation and combination. Differentiate between arrangement and selection problems. To understand binomial theorem and its expansion based on formulas. To obtain formula for the sum of squares of first n natural numbers.	Students are able to understand the concept of Permutations and Combinations and solve the based questions. Students are able to solve the questions of binomial theorem. Students are able to solve the questions of Sequence and Series.	25
NOVEMBER	Straight line: Brief recall of two dimensional geometry from earlier classes. Shifting of origin. 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 and normal form. General equation of a line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from a	To inculcate the basic terminology of two dimensional geometry and different forms of straight line.	Students are able to solve the questions of Straight Line	15

	line. Conic Section Sections of a cone: circle, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.	To construct different type of conic sections	Students are able to solve the questions of Conic Sections	
DECEMBER	Introduction to Three -dimensional Geometry Axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula	To explain the concept of octants by three mutually perpendicular planes in space	Students are able to solve the questions of Introduction to Three-dimensional Geometry	16
	Limits and derivative: Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relate it to slope of tangent of the curve, Derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.	ART INTEGRAED LEARNING ACTIVITY : Verification of the geometrical significance of derivative.	Students are able to solve the questions of limits and Derivatives	
JANUARY	Probability Random experiments; outcomes, sample spaces (set representation). Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories studied in earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events	To write the sample space when a coin is tossed once, two times, three times, four times	Students are able to solve the questions of Probability	18
FEBRUARY	REVISION (FINAL EXAMINATION)			18

CLASS XI – BIOLOGY

Month	Topics	Methodology	Learning Outcome	Working days
June	Chapter-1: The Living World Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature.	Descriptive exemplary flowchart diagrammatic	Understanding of the characters of life and living organisms	3
	Chapter-2: Biological Classification Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroid's.	Diagrammatic descriptive referral exemplary	Understanding of basic criteria of classification and characteristics of the five kingdoms	7
July	Chapter-3: Plant Kingdom Classification of plants into major groups; Salient and distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae (Topics excluded – Angiosperms, Plant Life Cycle and Alternation of Generations)	Flowchart descriptive referral exemplary	Understanding of details and components of plant kingdom.	9
	Chapter-4: Animal Kingdom Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (salient features and at a few examples of each category). (No live animals or specimen should be displayed.)	Flowchart, Descriptive, Exemplary	Understanding of details and components of plant kingdom.	9
	Chapter-5: Morphology of Flowering Plants Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae.	Exemplary descriptive diagrammatic	Understanding of external structure and modification in plants	8
August	Chapter-6: Anatomy of Flowering Plants Anatomy and functions of tissue systems in dicots and monocots.	Diagrammatic descriptive referral exemplary	Understanding of internal structure and composition in plants	5
	Chapter-7: Structural Organisation in Animals Morphology, Anatomy and functions of	Flowchart descriptive referral exemplary	Internal structure and systems in a frog	7

	Chapter-8 : Cell-The Unit of Life 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.	Exemplary, referral, diagrammatic	Understanding of generalised prokaryotic, eukaryotic cell and their structure	5
September	Chapter-9 : Biomolecules Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, 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)	Flowchart exemplary referral	Understanding of chemical components of a living system and their significance	12
	Chapter-10: Cell Cycle and Cell Division Cell cycle, mitosis, meiosis and their significance.	Diagrammatic descriptive referral exemplar	Understanding of the methodology of cell multiplication	5
	REVISION FOR MID TERM			
October	Chapter-11: Photosynthesis in Higher Plants Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.	Flowchart descriptive referral exemplary	Understanding of photosynthetic procedure its steps and outcome	5
	Chapter-12: Respiration in Plants Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.	Flowchart, Descriptive, Exemplary	Understanding of cellular respiration its important steps and processes with productivity	5

November	Chapter-13: Plant - Growth and Development Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA;	Diagrammatic descriptive referral exemplary	Understanding of plant growth and factors affecting plant growth	6
	Chapter-14: Breathing and Exchange of Gases Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders.	Flowchart descriptive referral exemplary	Understanding of human respiratory system	7
	Chapter-15: Body Fluids and Circulation Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.	Diagrammatic descriptive referral exemplary	Understanding of human circulatory system.	9
December	Chapter-16: Excretory Products and their Elimination 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 kidney, kidney transplant	Descriptive flow chart exemplary	Understanding of human excretory system	9
	Chapter-17: Locomotion and Movement Types of movement - ciliary, flagellar, muscular; skeletal muscle, contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal systems - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.	Descriptive flow chart exemplary.	Understanding of human skeletal and muscular system	10

JANUARY	Chapter-18: Neural Control and Coordination Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse	Diagrammatic descriptive referral exemplary	Understanding of human nervous system	6
	Chapter-19: Chemical Coordination and Integration Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; 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. Note: Diseases related to all the human physiological systems to be taught in brief.	Diagrammatic descriptive referral exemplary	Understanding of human endocrinal system	8
	Revision for final Examination			

CLASS XI - BUSINESS STUDIES (054)

Month	Topic	Methodology/Activities	Learning Outcome	Working Days
JUNE	PART - FOUNDATION OF BUSINESSES NATURE & PURPOSE OF BUSINESS: History of Trade & Commerce in India, Indigenous Banking System, Rise of Intermediaries. Business –meaning & characteristics, Business, profession& employment concept, objective of business, Industry-types- primary, secondary, tertiary; Commerce-trade: auxiliaries to trade (banking, insurance, transportation, warehousing, communication& advertising) – meaning Business risk –Concept	Lecture method Assignment • NCERT Questions • CBSE Sample Paper • CBSE Test Paper • Revision worksheets • Practice Assignment	After going through this unit, the students will be able to • Describe the meaning & main features of business. State the distinctive features of business as a profession & employment. • Explain the meaning of commerce & trade, different types of trading activities. • Understand the meaning of business activities with reference to economic & non-economic activities. • Describe the various types of industries. • Understand the concept of risk as special characteristics of business & examine the nature and causes of business risk.	18
	FORMS OF BUSINESS ORGANIZATION – Sole proprietorship – Concept , merits and limitations Partnership- Concept, types, merits & limitations of partnership, registration of a partnership firm, partnership deed. Types of partners Hindu undivided family business- concept, Cooperative Societies- Concept, merits and limitations Company – Concept, merits & limitations; types: Private, Public & One person Company – Concept Formation of company – stages , important documents to be used in formation of company Choice of form of business organization.	Lecture Notes, Assignment • NCERT Questions • CBSE Sample Paper • CBSE Test Paper • Practice Assignment Project on formation of a company & its various stages	After going through this Unit, the students will be able to Classify different forms of business organization like sole proprietorship, types of partnership, registration of partnership deed& firm, & different types of partners • Understand the concept of Hindu undivided family business. Cooperative societies- concept, merits & limitations. Understand the concept of consumer, producer. Public & private company –concept, merits & limitations. • Highlight the stages in formation of company & important documents used in the formation of a company.	24

	PART -B FINANCE & TRADE SOURCE OF BUSINESS FINANCE Concept of Business Finance – Owner’s Fund- Equity shares, preference share, retained earnings Borrowed fund- debentures & bonds, loans from commercial banks, public deposits, trade credit, inter corporate deposits	Explanatory method with the examples of various sources of business finance	After going through this unit the students will be able to • State the meaning, nature and importance of business finance • Classify the various sources of funds into owner’s Funds. State the meaning of borrowed fund, debentures bonds, loans from commercial banks, trade credit and intern corporate deposits Distinguish between owner’s Fund & borrowed fund.	
SEPTEMBER	Revision for Mid Term		•	18
OCTOBER	PART– A FOUNDATION OF BUSINESS Emerging modes of Business E-Business: concept, scope and benefits Social Responsibility of Business Concept of social responsibility , Responsibility towards owners, investors, consumers, employees, government and community , Role of business in environment protection , Business Ethics - Concept and Elements	Explanatory method & Lecture notes by giving example of different e-business Explanatory Method	After going through this unit the students will be able to • Give the meaning of e-business scope & it’s benefits, distinguish between e-business & traditional business. After going through this unit the students will be able to • State the concept of social responsibility • Examine the case for social responsibility • Identify the social responsibility towards different interest groups. • Appreciate the role of business in environment protection. • State the concept of business ethics. •	12

			Describe the elements of business ethics.	
NOVEMBER	PART – B Finance & Trade Small Business Entrepreneurship development Concept, characteristics & Need. Process of Entrepreneurships development: Start-up India Scheme, ways to fund start-up. Intellectual Property Rights and Entrepreneurship. Small scale enterprise as defined by MSMED Act 2006. Role of small business in India with simple reference to rural areas. Government Schemes & agencies for small scale industries: National Small Industries Corporation (NSIC) & District Industrial Centre (DIC) with special reference to rural, backward areas.	Lecture notes & explanatory method using examples of Various small industries & Govt. Schemes.	After going through this unit the students will be able to • Understand the concept of Entrepreneurship development, Intellectual Property Rights • Understand the meaning of small business & role of it in India • Appreciate the various Government schemes & agencies for development of small scale industries. NSIC & DIC with special reference to rural backward areas.	30
	PART- B FINANCE & TRADE Internal Trade Internal Trade- meaning & types Services rendered by a wholesaler & a retailer. Types of retail trade- Itinerant & small fixed shop retailer. Large scale retailer- Departmental store, chain store- concept Goods & services tax (GST) – Concept & key features.	Lecture notes Project on the role of wholesaler and retailers	After going through this Unit, the students will be able to • Differentiate b/w a wholesaler & retailer. Explain the services provided by them. • State the meaning & types of internal trade. • Explain the different types of retail trade. ; Highlight the distinctive features of departmental store, chain store and mail order business under the concept of GST	

DECEMBER	International Business International Business – concept & benefits, Export trade – meaning & procedure, Import Trade – meaning & procedure; Documents involved in International trade ; indent letter of credit, shipping order, shipping bills, mate's receipt . World Trade Organization (WTO) – Meaning & objective	Lecture Notes, Explanatory method Using daily life examples Project report on International trade.	Understand the concept of Internal Trade ; describe the scope of international trade to the nation & business firms. State the meaning & objectives of export trade. Development understanding of meaning, needs, benefits and difficulties faced in International trade. Describe export, import procedures Explain about main departments used in international trade. WTO- Role & organization Describe in the organization & role of WTO in laying rules for international trade.	16
JANUARY	REVISION FOR FINAL TERM			

CLASS XI - ECONOMICS

MONTH	TOPIC	SUB TOPIC	METHODOLOGY	LEARNING OUTCOMES	WORKING DAYS
JUNE	BOOK - 1 MICRO ECONOMICS UNIT -1 INTRODUCTION	Meaning of microeconomics and macroeconomics; positive and normative economics What is an economy? Central problems of an economy: what, how and for whom to produce; opportunity cost. What is Economics? Meaning, scope, functions and importance of statistics in	-chalk board method. -lecture method . -Explanation with examples	Equipment with basic tools of economics and statistics to analyze economic issues. This is pertinent for even those who may not pursue this course beyond senior secondary stage.	17
JULY	BOOK - 2 STATISTICS UNIT-1 INTRODUCTION BOOK-1 MICRO ECONOMICS UNIT-2 Consumers Equilibrium & Demand	Consumer's equilibrium - meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis. Indifference curve analysis of consumer equilibrium -Consumer's budget , Properties of IC Condition of consumer equilibrium	-chalk board method. -lecture method . -Explanation with examples	Students will be able to understand the concept of utility and satisfaction, Marginal utility of money - single and double commodity approach concept of IC with its properties, consumer's equilibrium using IC analysis.	26

		Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – Percentage - change method.	-chalk board method. (online) -lecture method. -Explanation with examples	Students are able to answer the concept of individual demand and market demand, determinants, exceptions, movement along demand curve and shift in demand curve. Concept of price elasticity of demand and measurement of demand	
July	BOOK-2 STATISTICS UNIT-1 INTRODUCTION BOOK-1 MICRO ECONOMICS UNIT-2 Consumers Equilibrium & Demand	Collection of data - 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 Organization. Organization meaning and types of variables, frequency distribution.	-chalk board method.(online) -lecture method -Explanation with examples	To develop the skill of data collection, organization and presentation. It also aims to equip the learners with some basic statistical tools so that they can easily analyze, and comprehend any economic information and illustrate appropriate conclusions. The units deals with chapters on the meaning of	

AUGUST	BOOK-2 STATISTICS UNIT -3 - Measures of central tendency - measures of dispersion	Measures of central tendency - MEAN , MEDIAN, MODE.	-Problem solving method -chalk board method. -Illustrative method.	The students are made familiar about the measures of central tendency various methods to calculate mean , median , mode	23
SEPTEMBER	Textual & Tabular, Diagrammatic Presentation- Bar & Pie Diagram & graphs	Presentation of Data: Tabular Presentation and Diagrammatic Presentation of Data: (i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and Ogive) and (iii) Arithmetic line graphs (time series graph) (iv) frequency distribution graph :- POLYGON , HISTOGRAM , OGIVE	-chalk board method. -lecture method .	economics as well as the meaning and scope of statistics in economics, data collection, organization and presentation and statistical tools and Interpretation. There is a separate unit that deals with developing Projects in economics. Here the students are expected to develop projects, which have primary data, secondary data or both.	12
SEPTEMBER		First Term examination	First Term examination	First Term examination	

October	BOOK-1 MICRO ECONOMICS UNIT -3 Production function Concept of cost	Meaning of Production Function – Short-Run and Long-Run. Total Product, Average Product and Marginal Product. Returns to a Factor Cost: Short run costs - total cost, total fixed cost, total variable cost; Average cost; Average fixed cost, average variable cost and marginal cost- meaning and their relations.	-chalk board method. -lecture method -Explanation with examples.	After reading this material the learners will be able to: 1. Define the basic concept of production function 2. Enlist various concepts to be remembered while calculating the costs 3. Recognize the formulae for finding out different costs.	15
NOVEMBER	BOOK-1 MICRO ECONOMICS UNIT -3 • Concept of Revenue • producer's equilibrium • supply BOOK-2 STATISTICS UNIT-3 CORRELATION	Revenue - total, average and marginal revenue - meaning and their relationship. Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply. CORRELATION :- KARL PEARSON COEFFICIENT OF CORRELATION AND SPEARMAN'S RANK CORRELATION & SCATTERED DIAGRAM	-chalk board method.(online) -lecture method -Explanation with examples	After reading this material the learners will be able to: 1. Define revenue, different types of markets. 2. List out the components of revenue 3. Identify the different type of market conditions . 4. Students will be inculcated to correlate between 2 variables.	22

DECEMBER	BOOK-2 STATISTICS UNIT -3 Index Numbers. BOOK -1 MICRO ECONOMICS UNIT-4 MARKET AND ITS FORMS & PRICE DETERMINATIO N UNDER PERFECT MARKET.	.meaning, types - wholesale price index, consumer price index , uses of index numbers; Inflation and index numbers. Simple Applications of Demand and Supply: Price ceiling, price floor.	-chalk board method.(online) -lecture method -Explanation with examples	After reading this material the learners will be able to: 1. Define types of index numbers. 2. Draw applications of demand and supply 3. Recognize the formulae for finding out different index numbers.	19
JANUARY	FINAL FOR FINAL TERM EXAMINATION				25
FEBRUARY	FINAL FOR FINAL TERM EXAMINATION				

CLASS XI – ACCOUNTANCY

Month	Topic	Methodology / Activities	Learning Outcome	Working Days
JUNE/ JULY	Accounting-concept, objectives, advantages and limitations, types of Branches of accounting; types of accounting information, users of accounting information and their needs. Basic accounting terms: business transaction, account, capital, drawings, liabilities (non - current and current); assets (non-current and current) fixed assets (tangible and intangible assets), receipts (capital and revenue), expenditure (capital, revenue and deferred), expense, income, profits, gains and losses, purchases, purchases returns, sales, sales return, goods, stock, inventory, trade receivables (debtors and bills receivable), trade payables (creditors and bills payable), cost, vouchers, discount - trade and cash Basic accounting terms and Concepts.	Smart Board; Lecture Notes, Google classroom ,PPT Assignment - NCERT Questions - CBSE Sample Paper - CBSE Test Paper - Revision worksheets - Practice Assignment	After going through this Unit, the students will be able to Describe the meaning, significance, objectives, advantages and limitations of accounting in the modern economic environment with varied types of business and non- business economic entities. - Identify / recognize the individual(s) and entities that use accounting information for serving their needs of decision making Understand the various terms used in accounting and differentiate between different related terms like current and non-current, capital and revenue. - Give examples of terms like business transaction, liabilities, assets, expenditure and purchases explain that sales/purchases include both cash and credit sales/purchases relating to the accounting year - Differentiate among income, profits and gains.	10

	Theory Base of Accounting: Fundamental accounting assumptions: going concern, consistency and accrual. Accounting principles: accounting entity, money measurement, accounting period, full disclosure, materiality, prudence, cost concept, matching concept and dual aspect. Accounting Standards and IFRS (International Financial Reporting Standards): concept and objectives Double entry system of accounting.	Smart Board; Lecture Notes, Assignment - NCERT Questions - CBSE Sample Paper - CBSE Test Paper - Practice Assignment - Google classroom ,PPT	After going through this Unit, the students will be able to State the meaning of fundamental accounting assumptions and their relevance in accounting. - Describe the meaning of accounting assumptions and the situation in which an assumption is applied during the accounting process. - Explain the meaning and objectives of accounting standards. - Appreciate that various accounting standards developed nationally and globally are in practice for bringing parity in the accounting treatment of different items. Acknowledge the fact that recording of accounting transactions follows double entry system. - Understand the need of IFRS	
JULY	Bases of accounting - cash basis and accrual basis. Recording of Transactions Accounting equation: analysis of transactions using accounting equation. Rules of debit and credit: for assets, liabilities, capital, revenue and expenses. Documents/ supporting Origin of transactions- source vouchers (invoice, cash memo, pay in slip, cheque etc.), debit note, credit note, preparation of accounting vouchers- cash (debit and credit) and non-cash (transfer).	Smart Board; Lecture Notes, Google classroom PPT Assignment - NCERT Questions - CBSE Sample Paper - CBSE Test Paper - Practice Assignment	After going through this Unit, the students will be able to - Explain the bases of recording accounting transaction and to appreciate that accrual basis is a better basis for depicting the correct financial position of an enterprise. - Explain the concept of accounting equation and appreciate that every transaction affects either both the sides of the equation or a positive effect on one item and a negative effect on another item on the same side of accounting equation - Explain the effect of a transaction (increase or decrease) on the assets, liabilities, capital, revenue and expenses. - Identify both aspect of transaction and which aspect of the transaction is to be given debited and which aspect of the transaction is to be given credited.	26

July/ August	Goods and Services Tax (GST): Characteristics and Objective Journal. Books of original entry: format and recording – Ledger - format, posting from journal, cash book and other special purpose books, balancing of accounts	Smart Board; Lecture Notes, Google classroom PPT Assignment • NCERT Questions • CBSE Sample Paper • CBSE Test Paper • Practice Assignment	After going through this Unit, the students will be able to • Develop the understanding of recording of transactions in journal and the skill of calculating GST. How posting is done from journal, cash book and other special purpose books, balancing of accounts.	
August	Trial balance: objectives and preparation {Scope: Trial balance with balance method only) Cash book: simple cash book, cash book with bank columns and petty cashbook. Ledger posting from cash book And balancing of accounts Other books: purchases book, sales book, purchases returns book, sales returns book and journal proper. Ledger posting from other special purpose books, balancing of accounts Bank reconciliation statement- concept, calculating bank balance at an accounting date: need and preparation.	Art Integrated Learning Prepare a scrap book by pasting various assets around you & Classify them into types of Assets. Smart Board; Lecture Notes, Google classroom PPT	After going through this Unit, the students will be able to • State the need and objectives of preparing trial balance and develop the skill of preparing trial balance. • Explain the purpose of maintaining a Cash Book and develop the skill of preparing the format of different types of cash books and the method of recording cash transactions in Cashbook • Describe the method of recording transactions other than cash transactions as per their nature in different subsidiary books. 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 • Develop understanding of preparing bank reconciliation statement.	23

September	Depreciation concept, need and factors affecting depreciation; methods of computation of depreciation: straight line method, written down value method (excluding change in method) Accounting treatment of depreciation: by charging to asset account, by creating provision for depreciation/ accumulated depreciation account, treatment of disposal of asset.	Assignment • NCERT Questions • CBSE Sample Paper • CBSE Test Paper • Practice Assignment	- Explain the necessity of providing depreciation and develop the skill of using different methods for computing depreciation. Understand the accounting treatment of providing depreciation directly to the concerned asset account or by creating provision for depreciation account. - Appreciate the method of asset disposal through the concerned asset account or by preparing asset disposal account. - Appreciate the difference between reserve and reserve fund.	12
SEPTEMBER	MID TERM EXAMINATION			
OCTOBER	Financial statements: Objective and Importance. Trading and profit and loss account: gross profit, operating.	Smart Board; Lecture Notes, Google classroom PPT	After going through this Unit, the students will be able to - state the meaning of financial statements the - Purpose of preparing financial statements.	15
NOVEMBER	Financial statements:: Trading Accounts, profit/ loss account and Balance sheet: need, grouping, marshaling of assets and liabilities. Adjustments in preparation of financial statements: with respect to closing stock, outstanding expenses, depreciation, bad debts, provision for doubtful debts, provision for discount, Manager commission etc.	Assignment • NCERT Questions • CBSE Sample Paper • CBSE Test Paper • Practice Assignment Draw/design a cheque book and an TM Card.	- State the meaning of gross profit, operating profit and net profit and develop the skill of preparing trading and profit and loss accounts. - Explain the need for preparing a balance sheet. provisions, abnormal loss etc.	22

November / December	Chapter Rectification of Errors Errors: types-errors of omission, commission, principles, and compensating; their effect on Trial Balance. Detection and rectification of error, Suspense Account. Chapter: Incomplete record	Assignment • NCERT Questions • CBSE Sample Paper • CBSE Test Paper • Practice Assignment	After going through this Unit, the students will be able to • Appreciate that errors may be committed during the process of accounting. • Understand the meaning of different types of errors and their effect on trial balance. • Develop the skill of identification and location of errors and their rectification and preparation of suspense account.	
December / January	Chapter: Incomplete record COMPREHENSIVE PROJECT It is suggested to undertake this project after completing the unit on preparation of financial statements. The student(s) will be allowed to select any business of their choice or develop the transaction of imaginary business. The project is to run through the chapters and make the project an interesting process. The amounts should emerge as more realistic and closer to reality.	Assignment • NCERT Questions • CBSE Sample Paper • CBSE Test Paper • Practice Assignment		19 25

COMPUTER SCIENCE

Month	Topic	Methodology	Learning Outcomes	Working Days
June	(CH-1)Computer System Overview (CH-2)Data Representation (CH-3)Boolean Logic(Contd....)	Diagrams, Images, General Discussions Practical Problem Solving Explain with the help of Tata Class Edge	Basic Computer Organization, hardware, software, input device, Output device, CPU, memory , units of memory . Types of software: system software, programming tools and language translators , application software Operating system: functions, user interface. Number system: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems. Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32)	10
July	(CH-3)Boolean Logic (CH-5) Getting Started with Python (CH-6)Python Fundamentals	Practical Problem Solving Practical in Spyder (Python) Explain with the help of Tata Class Edge	Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan's laws and logic circuits Familiarization with the basics of Python programming. Introduction to Python, features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens, variables, concept of l-value and r-value, use of comments Knowledge of data types, Boolean, sequence , none, mapping , mutable and immutable data types	26
August	(CH-4) Introduction to Problem Solving (CH-7) Data Handling	Problem Solving Technique Practical in Spyder (Python)	Develop basic computational thinking. appreciate the notion of algorithm develop a basic understanding of computer systems - architecture, operating system and cloud computing.	23
September	Revision for Mid – Term Examination			
October	(CH-8)Introduction to Python Modules (CH-9)Flow of Controls (CH-10) String Manipulation	Practical in Spyder (Python)	Repetition of Task – A Necessity Types of statements in Python, Statements Flow Control. The If statements of Python. Range() functions. Strings: introduction, indexing, string operations (concatenation, repetition,	15

			membership & slicing), traversing a string using loops, built-in functions.	
November	(CH-11)List Manipulation (CH-12) Tuples	Practical in Spyder (Python)	Lists: introduction, indexing, list operations ,traversing a list using loops, built-in functions, nested lists. Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership & slicing), built-in functions.	22
December	(CH-13) Dictionaries (CH-14) Cyber Safety	Practical in Spyder (Python) Slide presentation on Cyber Safety Explain with the help of Tata Class Edge	Dictionary: introduction, accessing items in a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary, built-in functions. Sorting techniques: Bubble and Insertion sort. Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and Bullying.	19
January	(CH-15)Society, Law and Ethics	Discussion on General Awareness on Cyber Crime. Explain with the help of Tata Class Edge	Safely accessing web sites, Threats to Computer Security malware, viruses, Trojans, adware. Firewall- An important solution for computer Security. Ethical Issues, Open source Philosophy and Software License's, Technology and Society,	25
February	Revision for Final Term Examination			

CLASS XI – PHYSICAL EDUCATION

Month	Unit/Topic	Methodology/Activity	Learning Outcome	Working days
June	Unit-1 Changing Trends And Career in Physical Education Topic : Meaning & Definition of Physical Education Meaning of physical education, scope of Physical Education & it's objectives. Topic : Career options in Physical Education & various competitions at national & international level. Knowledge about the Careers in Physical Education. Topic: Khelo India Program Introduction of khelo India program and it's importance .	4. Lecture Method using White board. 5. Real life examples 6. Giving real examples about sports careers & requirements for achieving.	Students will come to know about the opportunities available in the field of physical education & the ways to prepared for it.	10
July	Unit-2 Olympic Value Education Topic: Olympics, Paralympics & Special Olympics Introduction about the Olympics, it's Organization , Paralympics and it's role in sports. Topic: Olympic symbol & Value of Olympics Objectives of Olympic & its values. Topic: International Olympic Committee & Indian Olympic Association . Role of IOC & IOA Unit -3 Physical Fitness, Wellness & Lifestyle Topic: Components of Physical Fitness & Wellness Concept of components of fitness and wellness and the lifestyle.	4. Lecture Method using black board 5. Diagrammatic view of functions of IOA and IOC 6. To provide with the meaning & importance of physical fitness, wellness & lifestyle.	Students will have knowledge about How to organize the Olympics & it's structure. Functions of IOC & IOA will be known. Students Will be known about importance of physical fitness.	26
August	Unit -4 Physical Education and Sports for CWSN Topic: Aims and Objectives of Adaptive Physical Education, Special Olympic Bharat Objectives of physical education for children with special needs explained. Introduction about organization promoting adaptive physical education. Unit-5 Yoga Topic: Meaning and importance of Yoga & elements of yoga. Meaning of yoga explained and it's 8 elements and yogic kriyas. Types of yoga asanas	4. Lecture Method using Black Board 5. Related Video 6. To determine the aims of SOB . 7. Practical presentation of yoga asanas.	Students Will be known about importance of physical fitness for children with special needs. Yoga and it's Elements will be known to students and the importance of yoga will be known.	23

	Relaxation techniques for improving concentration			
September	Unit-6 Physical Activity and Leadership Training Topic : Leadership Qualities & Role of a Leader, creating leaders through phy. Edu. Meaning of a leadership and creating the leaders in Physical Education. Topic : Types of adventure sports & safety measures to prevent sports injuries. Introduction to different types of adventure sports and the safety measure required for it.	4. Lecture Method using examples and black Board 5. PPT Slide 6. To determine the adventure sports & Safety measures required for it.	Develop observational, manipulative, decision making skills in the learners. Promote problem solving abilities and creative thinking in leaders.	12
Mid Term Exam				
October	Unit 7 Fundamental of anatomy & physiology in sports. Topic: Meaning of anatomy, different parts of body. Introduction to anatomy and the different parts of body involved and its importance in physical education.	4. Lecture Method using Black Board 5. Diagrammatic showcase of different parts of the body.	Helps to develop knowledge of body parts involved in physical activities to the students and make them realize its importance.	15
November	Unit 8 Fundamental of kinesiology & biomechanics in sports. Topic: Meaning of kinesiology & its importance in physical education. Introduction to kinesiology and its role in sports activities. Topic: Role of biomechanics in physical education Biomechanics and its importance in the sports activities. How the biomechanics is involved in sports and its performance.	1. To find the presence of physics in sports and role of kinesiology. 2. Diagrammatic showcase of the anatomy of the body and how the biomechanics plays important role in the result of any sports.	Make the students know about the body movements and how the movements of certain organs can help them to achieve the desired results in sports.	22
December	Unit 9 Psychology and sports. Topic : Meaning of psychology of the human beings Introduction to different types of psychology present in human beings Topic : Big five theory of personality Introduction to openness, agreeableness, extraversion etc. Topic: concept and types of aggression in sports The role of aggression in sports activity.	1 Lecture Method using Black Board 2 Flowchart or diagrammatic view of aspect of psychology. 3. To study the relationship between the five theories of personality and how it effects the overall development of human being. 4. To study the importance of aggression in the field of sports.	Promotion of basic psychology facts of the human beings and how it affects the performance of the individual in physical education. Knowing about the Sheldon and Jung's theories of the personality Knowing about the aggression and how to control it during the sporting activity.	19
January	Unit 10 Training and doping in sports.	1. Lecture Method using Black Board		25

	Topic: Meaning of training and its importance in sports. Introduction to the training and its need in the field of sports to perform during the sports activities. Topic: Meaning of doping and its consequences in sports. Introduction to the doping and its adverse effect in the field of sports to during the sports activities Topic: Types of doping and how it can be stopped in sports. Types of doping involve steroids, beta2 substances. How the different types of doping can be caught and stopped REVISION	2.PPT slide can be prepared to make them understand well. 3.To determine the role of training. 4.To study about the doping and its negative impact on the sports performance and sportsperson 5.How doping can be prevented in sports and different ways of testing it out.	Providing knowledge about the training and its need in the field of sports. Types of doping present in the field of sports. Knowledge about how doping can be avoided in sports	
February	REVISION for Final Exam			

SUBJECT- LEGAL STUDIES

MONTH	TOPIC	METHODOLOGY/ACTIVITIES	LEARNINGOUTCOMES	WORKING DAYS
JUNE	Unit 1 introduction to political institution Chapter 1 CONCEPT OF STATE Content: a. What is the state? b.The concept of state and article 12 of the constitution of India. c. What is government? d. Emergence of state from society. e. Definition of state F. Theories on origin of state.	Lecture method Explanatory method Group discussion	Students will be able to: 1.Define the term state in legal and political context especially international law. 2. Identify and explain the elements that are required by any political institution to be recognised as a state. 3. Define identify and illustrate the various role played by state in the context of the government control	10

	g. Elements and role of a state Chapter 2 FORMS AND ORGANS OF GOVERNMENT Contents: a. Introduction to the organs of government. b. Forms of government. c. Main organs of Government and its functions Chapter 3 SEPARATION OF POWERS Contents: a. Concept of separation of powers. b. Historical background and evolution of Montesquieu's doctrine of separation of powers. c. Evaluation of the doctrine of separation of powers. d. Separation of powers in practice.	Lecture method Explanatory method Group discussion method	being exercised on the citizens. 4. Evaluate the relevance and modern welfare takes in today's global scenario. 1. Construct the political system which forms the foundation of a legal system. 2. Describe all forms of government seen globally with relevant example. 3. Identify the organs of government. 4. Enumerate the functions of Executive and link it to modern welfare state. 5. Explain the functions of judiciary. 6. Evaluate the overlap in functions of all organs. 1. Define separation of powers. 2. Explain historical evolution of the Montesquieu's doctrine of separation of powers. 3. Reevaluate Montesquieu's doctrine of separation of powers.	
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		Lecture method Explanatory method Group discussion	4. Explain the relevance of Montesquieu's doctrine in governance and comment on its limitations. 5. Analyse and compare the application of doctrine or separation of powers in UK, USA and India	
JULY	Unit 2 Basic features of the constitution of India. Chapter 1 SILENT FEATURES OF THE CONSTITUTION OF INDIA Contents: a. Meaning and Definition of the term constitution. b. Historical perspective of the constitution of India. c. Silent features of the constitution of India. Chapter 2 ADMINISTRATIVE LAW Contents: a. Background of Administrative law , reasons of growth development and study of the law, types of Administrative actions	Lecture method Explanatory method Group discussion	Students will be able to: 1. Demonstrate understanding of the basic features of constitution and contrast the various constitutions around the world. 2. Analyse and examine the various writs and their purpose. 3. Explain the meaning of terminologies used in the preamble of the constitution. 4. Examine the reasoning behind why DPSP are non-justiciable. 5. Analyse the Importance of fundamental duties. 6. List down the process of amendment of the constitution and examine the basic structure of the constitution. 1. Interpret the meaning of Administrative law. 2. Differentiate between administrative law and constitutional law. 3. State reasons for growth of	26

	fundamental principle of the law. b. Key differences between administrative law and constitutional law. c. Droit system	Lecture method Explanatory method Group discussion	Administrative law as a separate discipline. 4. Explain the identify the types of Administrative actions. 5. Critically velvet ka concept of rule of law. 6. Explain Driot system.	
AUGUST	Unit 3 Jurisprudence, nature and sources of law. Chapter 1 JURISPRUDENCE NATURE AND MEANING OF LAW Contents: a. Introduction b. Historical perspective c. Schools of law d. Functions and purpose of law. Chapter 2 CLASSIFICATION OF LAWS Contents: a. Classification of law based on subject matter. b. Classification of law based on scope of law. c. Classification of law based on jurisdiction.	Lecture method Explanatory method Group discussion. Lecture method Explanatory method Group discussion	Students will be able to: 1. Describe the meaning nature, essentials and objectives of law along with its multi-faced role. 2. Compare the five schools of law natural, analytical historical, sociological and realists schools of law. 3. Discuss the need for law in the society by assessing the function and purpose of law. 1. Classified the various branches of law. 2. Summarise the purpose behind classification of law. 3. Compare international Law and Municipal Law, public law and private international law,	23

			public and private Municipal Law. 4. Identify the sub types of each branch. 5. Analyse the difference between civil and criminal law. 6. Differentiate between substantive and procedure laws.	
SEPTEMBER	Revision for Mid Term	Written Revision test	1. To learn well for Exam.	12
OCTOBER	Unit 3 Jurisprudence, nature and sources of law Chapter 3 SOURCES OF LAWS Contents: a. Where does law come from ? b. Custom as a source of law c. Importance of custom as a source of law in India. d. Judicial precedent and legislation as a source of law . Chapter 4 LAW REFORMS Contents: a. Leave for law reform. b. Law reforms in India. c. Recent law reforms in independent India. Chapter 5	Lecture method Explanatory method Group discussion	1. Discuss the three main sources of law. 2. Explain essential test laid down by jurists/courts for customs to be recognised as sources of law. 3. Evaluate the importance of custom as an important source of law. 4. Critically evaluate importance of different sources of law. 5. Enumerate and explain different kinds of legislation. 1. Discuss the meaning of Law reform and critically analyse the need of law reform in India. 2. Describe the role of law commissions in	15

	CYBER LAWS, SAFETY AND SECURITY IN INDIA Contents: a. Introduction and need of cyber laws. b. Cyber safety and security. c. Categories of cyber crime. d. Score for extent of the Information Technology Act 2000.	Lecture method Explanatory method Group discussion Debate	law reforms in pre independent India. 3. Enumerate recent law reforms in independent India 1. Analyse the importance of cyber security and safety. 2. Explain the meaning of cyber crime and the need of cyber laws. 3. Explain types of cyber crime, analyse cyber crime and cyber bullying. 4. Evaluate cyber laws in India.	
NOVEMBER	Unit 4 Judiciary :Constitutional Civil and Criminal courts and processes. Chapter 1 JUDICIARY CONSTITUTIONAL ,CIVIL AND CRIMINAL COURTS AND PROCESSES. Contents: a. Introduction b. Judiciary it's constitution, role and impartiality. b. The Civil court structure. c. Structure and functioning of criminal courts in India. d. Other courts in India.	Lecture method Explanatory method Group discussion	Students will be able to: 1. State reasons for independence and impartiality of judiciary. 2. Understand the hierarchy of course in India. 3. Explain legislations governing courts in India. 4. Distinguish between civil and criminal cases .	22
DECEMBER	Unit 5 Family justice system. Chapter 1	Lecture method Explanatory method Group discussion	Students will be able to : 1. Explain the evolution of family	

	a. What is domestic violence? b. International legal framework. c. Laws in India on prevention of violence against women.	Lecture method Explanatory method Group discussion Case study Analysis	2. Differentiate between types of succession. 3. Apply the rules regarding intestate succession in different religions. 4. Will drafting. 1. Understand the concept of violence against women. 2. Trace the evolution of laws and violence against women in India. 3. Critically evaluate the laws of protection of women in India.	
JANUARY	Revision for Final Term Exam	Written Revision tests	Prepare for Final Term Exam	25
FEBRUARY	Revision for Final Term Exam			

SUBJECT:- WEB APPLICATIONS

MONTH	LEARNING OUTCOMES	THEORY	PRACTICAL	DAYS
JUNE	Basics of Networking and Web Architecture	Basic network concepts Internet, channel, Bandwidth, Data Transfer Rate Protocols: HTTP, FTP, TCP/IP,	Identification of network devices	10
JULY	Basics of Networking and Web Architecture	VoIP Types of network: PAN, LAN, MAN, WAN Web Architecture: Types of architecture- Client Server Model, Three Tier Model, Service Oriented Architectures Web server, Web Client Network threats and Security Measures.	Identification of types of network in school and other offices.	26
AUG	UNIT-2: WEBSITE DEVELOPMENT USING HTML AND CSS HTML: Students would be able to: - Understand basic concept of website - Differentiate between static and dynamic website - Analyse static websites - Appreciate various tags in HTML - Create static website using HTML	- Concept of website, its need and purpose - Types of websites: Static and dynamic website - Languages used for website development - HTML: basic tags, formatting tags, Adding images, Lists - Embedding multimedia in Web pages - Inserting tables - Internal and External Linking - Frames, Forms	- Visit and appreciate various websites - Identify and differentiate between static and dynamic website - Web pages using different HTML tags - Creating and linking web pages - Creating small websites using frames - Create forms	23
SEP	Cascading Style Sheets: Students will be able to: - appreciate advantages of cascading stylesheets	- Basics of Cascading Style sheets - Advantages of CSS - External Style sheet - Internal style sheet - Inline style sheet - CSS Syntax- Selector, Property, Value - Overriding, Comments,	- Creating simple CSS - Using CSS in simple Web pages - Creating website using CSS	12

		color,background, Font, images		
OCT	Publishing: Students will be able to:- - understand requirements for publishing a website - identify different domains and domain name system	- Publishing:Introduction - Introduction to Domain Naming System(DNS) - DNS Server - Domain Space Provider - Domain Name registration process and acquiring domain space - Website Hosting - Website publishing tools - Publish a website	- View different websites and identify their domain - Register a domain with DNS Provider - Publish and host website	15
MONTH	LEARNING OUTCOMES	THEORY	PRACTICAL	DAYS
NOV	UNIT-3: MULTIMEDIA DESIGN-GIMP TOPIC: GIMP Students would be able to:- - Appreciate interface of GIMP - Understand and use drawing tools, selections - Appreciate different color modes - Create and edit images - Appreciate and use filters and layers - Develop skill to create and edit an image	Gimp as a graphics tool Gimp interface, color modes, Toolbox: selection tools, paint tools, transform, color tools, foreground, background. Creating and editing images Filter tools like Blur, Enhance, Distort, Light and shadow, Noise, edge detection, artistic filters, décor, map, render, alpha etc. Layers: creating, rearranging and masking layers	- working in GIMP window, understand Interface using drawing tools and selection tools like rectangle, intelligent scissors, ellipse etc. creating and editing images - image enhancement using different filters. creating layers, rearranging layers, using Layers to merge and create new images	22

MONTH	LEARNING OUTCOMES	THEORY	PRACTICAL	DAYS
DEC	UNIT-4: INTRODUCTION TO DYNAMIC WEBSITES USING JAVASCRIPT Students would be able to:- - Analyze limitations of static websites - Understand dynamic websites and their need - Understand Basics of Java	Limitations of static websites Dynamic websites Features JavaScript, extension of JavaScript Syntax of JavaScript, data types, operators, variables,	Create web pages using JavaScript Various programs using operators, iterative statements,	

JAN	Script - Appreciate advantages and features of JavaScript - Develop interactive web pages using JavaScript	<script> tag, <button>Document object Creating interactive web pages using JavaScript Selection Statement using if and Switch Iterative statement: for, for/in, while, do while, break and continue	selection statements in JavaScript	25
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SUBJECT:- PAINTING

MONTH	TOPIC	METHODOLOGY/ACTIVITIES	LEARNING OUTCOMES	WORKING DAYS
JUNE	Elements of Painting	Practical in 2D Painting and sketching	Learn about the basis of drawing and practice 2D	10
JULY	ch-1Prehistoric Rock Painting Introduction Ch-2,Indus valley Art Shadang, Buddhist, Jain & Hindu Art Hindu Art & Ajanta	Perspective and Fore shortening	Listen attentively. The initial human drawings make able that how the primitive human skilled themselves to express themselves .Respect, appreciate and demonstrate an open mind towards the artistic expression of others Able to know about one of The most ancient civilization as well as their artistic aspects and technology too Able to Differentiate 2D and 3 D,as well as execution of live subject drawing	26
AUGUST	Ch-3,Arts of Mauryan Period Ch-4,Post Mauryan trends in Indian Art and Architecture Ch-5Later Mural traditions	Practical in Still life and Nature study	Will Learn about the impact of socio religious beliefs on art and politics which changed the subjects time to time. How the heritages still gives direction to our life till date. Appears enthusiastic and willing to study artistic expressions from other cultures or regions of the world that are very different from own. Practical: Control on handling of pencil and hand, understanding space and harmony Increase in observation as well as emphasis on Perspective	23

SEPTEMBER	Revision for Midterm			12
OCTOBER	Ch-6, Temple Sculpture,	Human Anatomy and collage	Learn about the intricate design and the iconography of Indian temples with remarkable scientific features. Be resourceful and organize information effectively. Accept different forms and styles and try to explore their meaning. Practical: Measurements and Perspective of human Anatomy Human composition Colour scheme in collage make help to capture composition in texture	15
NOVEMBER	Ch-7 Indian Bronze Sculpture & Artistic Aspects,	Landscape and painting composition	Know about metallurgy science get involved with faith and result high finishing Bronze Sculpture Practical: Be sensitive towards other's creations. Able to make live landscape as well as compose with human and animal	22
DECEMBER	Ch-8 Artistic Aspect of Indo-Islamic Architecture	Fresco, mosaic, tie and dye	Learn about the fusion of Indian and Islamic artistic ways of philosophy resulted in wonderful structures. Be ready to research and transfer his/her learning to his / her own art Practical: to learn different techniques including plastic medium like clay and cement in Fresco and fabric medium in tie and dye	19

JANUARY	Theoretical Aspects & techniques of Medium	Assignment and Practical drawing book submissions	Be responsible for his/her own learning and progress Apply theoretical knowledge in practical contexts Possess information and communication technology skills	25
FEBRUARY				
	REVISION FOR FINAL TERM			

SUBJECT- BHARATNATYAM DANCE

MONTH	TOPIC	METHODOLOGY/ACTIVITIES	LEARNING OUTCOMES	WORKING DAYS
JULY	All bhedas and TattAdvu's.	Practice of drishti,greeva,shiro,pada,mandala bheda's.and practice of stretching parts of the body.	Practical - advu's and bhedas.	20
AUGUST	Nattadvu's and ta tei Tai tattadvu's. A brief history of dance.acquaintance with the themes of ramayana.	Nattadvu 8 types and ta tei Tai tattadvu's 4 types.	Practical and theory	24
SEPTEMBER	Standing advu's and a history of bharatnatyam.	Kudittamettu advu-4, teiyatei hit -2, Revision of all the advu's	Practical and theory.	22
	REVISION FOR PRE MID TERM			
OCTOBER	Utplavanadvu's and sarikkaadvu. Theory - definition of the musical terms used in dance.	Tadhingida tom, kittaktari kit tom, Mandiadvu, sarikkaadvus.	All advu's and practical.	18
NOVEMBER	Simple korvais and adi talam1-2 avartan. Distinctive aspects of bharatnatyam.	Korvais and tishrachaturashra simple forward.	All advu's and practical in avartan	22
DECEMBER	Revision of theory. And practical unit 1	Practice of all advu's and bhedas. Alaripu - tishraekam.	Alariputishr aekam	21
	REVISION FOR MID TERM			
JANUARY	Revision all theory.	Revision of all the practical.	Practice of theory & practical.	24
FEBRUARY	preparation for final exams.	Preparation of all the advu's and strps.	Practice of Theory and practical.	23
	REVISION FOR FINAL TERM			

SUBJECT-APPLIED MATHEMATICS

Month	Chapter / Topic	Learning Outcomes	Methodology / Teaching Strategies	No. of Periods
June 2026	Unit 1: Number, Quantification and Numerical Applications	• Understand numerical computation and approximation. • Apply percentages, ratios, indices, logarithms and financial calculations. • Solve real-life numerical problems.	• Concept explanation through examples. • Worksheets and numerical drills. • Case studies involving business and finance. • Use of calculators and spreadsheets.	16
July 2026	Unit 8: Coordinate Geometry	• Understand coordinate systems and equations of lines. • Calculate distance, section formula, slope and area. • Apply coordinate geometry in problem-solving.	• Graph plotting activities. • GeoGebra demonstrations. • Problem-solving sessions. • Real-life map and navigation examples.	20
August 2026	Unit 2: Algebra (Sets, Relations, Sequence and Series)	• Understand set operations and relations. • Analyze arithmetic and geometric progressions. • Apply formulas to practical situations.	• Venn diagram activities. • Pattern recognition exercises. • Collaborative learning tasks. • Worksheets and quizzes.	18
	Unit 3: Mathematical Reasoning	• Develop logical thinking and reasoning skills. • Construct valid mathematical arguments. • Differentiate between statements and propositions.	• Group discussions. • Logic puzzles. • Reasoning-based worksheets. • Classroom debates.	10

September 2026	Revision for Mid-Term Examination	• Consolidate concepts from Units 1, 2, 3 and 8. • Improve exam readiness and problem-solving speed.	• Sample papers. • Mock tests. • Doubt-clearing sessions. • Peer teaching activities.	15
October 2026	Unit 2: Algebra (Permutation & Combination)	• Apply counting principles. • Solve arrangement and selection problems. • Use factorial notation efficiently.	• Activity-based learning. • Real-life counting problems. • Interactive quizzes. • Problem-solving workshops.	15
	Unit 5: Probability	• Calculate probabilities of events. • Interpret probability in real-life contexts. • Solve conditional probability problems.	• Experiments using dice and cards. • Simulations and games. • Data interpretation exercises. • Practice worksheets.	15
November 2026	Unit 4: Calculus	• Understand limits and derivatives. • Apply differentiation techniques. • Solve optimization and rate of change problems.	• Graphical demonstrations. • Inquiry-based learning. • GeoGebra activities. • Numerical applications.	24
December 2026	Unit 6: Descriptive Statistics	• Analyze and interpret statistical data. • Compute measures of central tendency and dispersion. • Draw meaningful conclusions from datasets.	• Data collection projects. • Spreadsheet activities. • Graph construction. • Statistical investigations.	12

	Unit 7: Basics of Financial Mathematics	• Understand simple and compound interest. • Calculate EMI, annuities and depreciation. • Apply mathematics to financial planning.	• Banking and investment case studies. • Spreadsheet calculations. • Practical financial scenarios. • Project-based learning.	12
January 2027	Revision & Practical Work	• Reinforce all syllabus concepts. • Complete practical record work. • Develop examination confidence.	• Practical file completion. • Model papers. • Group revision sessions. • Oral assessments and presentations.	20
February 2027	Pre-Board & Final Revision	• Strengthen weak areas. • Improve accuracy and time management. • Prepare for Board Examination.	• Full-length mock tests. • Error analysis. • One-to-one mentoring. • Previous year question paper practice.	

VOCAL MUSIC

MONTH	TOPIC	METHODOLOGY/ACTIVITIES	LEARNING OUTCOMES	WORKING DAYS
JUNE/JULY	Practical - Alankar, Raag Bihag Theory - Biography of Tansen, Teen Taal, Naad, Shruti, Swar, Saptak	Raag Bihag, Dhrutkhyal (Notation) Diagram of teentaal ekgun and dugun	Drutkhyal Aaroh/ Avroh & Taan / Aalap Theory - Taansen (Early Life, family Education, creation, career death) Naad, Shruti , Saptak, swar, (Three types of saptak, Madhya, mandr, taarsaptak	26
AUGUST	Practical - vilambitkhyal Theory - Dhrupad, thaat , jati, laya , ektaal	practical - vilambitkhyal Ektaal- Diagram ekgun and dugun	Vilambitkhyal notation taans/ Aalap Theory - Dhrupad, khyal, Jati, laya	23
SEPTEMBER	Theory - life sketch of Bhatkhanday	Practical - stage performance	Life sketch of V.N. Bhatkhanday (education Creation career death History of tarana	12
	REVISION FOR PRE MID TERM			
OCTOBER	Practical - Raga Bhairavi/ Dhrupad gayan Theory - history of Natya Shastra	Practical - Drutkhyal Dhrupad gayan (Ekgun , dugun)	Dhrutkhyal, Notation Taans/ Aalap, Dhrupad, Notation, Ekgun & Dugun Theory - History of Natya Shastra	15
NOVEMBER	Practical - Raag Bhimpalasi Theory - structure of taanpura, Chautala	Practical - Notation Diagram of Chautala, Ekgun/ Dugun	Notation of raga Bhimpalasi Dhrutkhyal with taans / aalap Theory - Definition of Chautala (vibhag , matra) Structure of Taanpura Bhajans	22

DECEMBER	PRACTICAL- BHAJANS AND DEVOTIONAL SONGS	PRACTICAL-STAGE PERFORMANCE	PRaCTICAL- NOTATION OF BHAJAN	19
	THEORY- INTRODUCTION OF RAGA JAUNPURI		THEORY- DEFINITION	
	REVISION FOR MID TERM			
JANUARY	PRACTICAL-REVISION	STAGE PERFORM		25
	THEORY-REVISION			
FEBRUARY/ MARCH	PRACTICAL& RIVISION			
	THEORY-REVISION			
	REVISION FOR FINAL TERM			

