

# RAMJAS INTERNATIONAL SCHOOL

## R K PURAM



Syllabus Class – 11<sup>th</sup>  
(2024-25)

**ENGLISH**

<b>MONTH</b>	<b>TOPIC</b>	<b>ART INTEGRATION</b>	<b>SUBJECT ENRICHMENT ACTIVITY</b>
<b>APRIL</b>	<b>HORNBILL</b>	Design a digital Poster on taking care of the old/aged people.	Worksheet- Assess learning from The Portrait of a lady. Worksheet- Design a Poster
	PROSE-The Portrait of a lady		
	<b>WRITING SKILLS</b>		
	Poster Making		
	<b>SNAPSHOTS</b>		
	The Summer of the Beautiful White Horse.		
<b>MAY</b>	<b>HORNBILL</b>	Design a digital Poster on taking care of the old/aged people.	Watch a documentary on the India-Pakistan partition and discuss your views to understand the importance of 'The Address'. Worksheet- A Photograph.
	POEM- A Photograph		
	<b>SNAPSHOTS</b>		
	The Address		
<b>JULY</b>	<b>HORNBILL</b>		Worksheets
	PROSE- We're Not Afraid to Die....if We Can All Be Together		
	POEM-The Laburnum Top		
	<b>SNAPSHOTS</b>		
	Birth		
	<b>WRITING SKILLS</b>		
	Speech Writing		
<b>AUGUST</b>	<b>HORNBILL</b>	Make a Power Point Presentation of 'The Voice of the Rain'.	Organise a debate on whether the idea of excavation of King Tut was a wise decision.
	PROSE- DiscoveringTut : The Saga Continues		
	POEM- The Voice of Rain		
	<b>WRITING SKILLS</b>		
	Debate Writing		
<b>SEPTEMBER</b>	<b>REVISION</b>		
	<b>TREM-1 EXAMNINATIONS</b>		
<b>OCTOBER</b>	<b>HORNBILL</b>	Design a colorful Mind-Map for the lesson 'Silk Road'.	Worksheets
	<b>PROSE - Silk Road</b>		
	POEM - Father to Son		
	<b>SNAPSHOTS</b>		
	POEM- Tale of the Melon City		
<b>NOVEMBER</b>	<b>HORNBILL</b>	Interview atleast two women/mothers on 'Motherhood' and make a short documentary.	Worksheets
	<b>POEM- Childhood</b>		
	<b>SNAPSHOTS</b>		
	DRAMA- Mother's Day		
<b>DECEMBER</b>	<b>HORNBILL</b>	Draft a digital advertisement for selling 'Planet Earth'. (Awareness Activity) /Property Mela	Worksheets
	PROSE - The Ailing Planet		
	<b>WRITING SKILLS</b>		
	Advertisement Writing		
<b>JANUARY</b>	REVISION TESTS Based on Full Syllabus		
<b>FEBRUARY</b>	REVISION TESTS Based on Full Syllabus		

## PHYSICS

MONTH	UNIT	TOPICS	ART INTEGRATION ACTIVITY	PRACTICALS	SUBJECT ENRICHMENT ACTIVITY
April	II	Chapter–2: Units and Measurements		1.Vernier Calliper- Diameter and Volume 2.Screw Gauge- Diameter of wire	
May	III	Chapter–3: Motion in a Straight Line Chapter 4- Motion in a Plane		3.Screw Gauge – Volume of Irregular Lamina	1.Paper scale
June	III	Chapter–4: Motion in a Plane			
July	III	Chapter–5: Laws of Motion	Investigatory Project	4. Simple pendulum- $LT^2$ graph	2. Plot graph- proper choice of scales and error bars
Aug	IV	Chapter–6: Work, Energy and Power			3. Force of limiting friction
Sept	V	Chapter–7: System of Particles and Rotational Motion			
Oct	VI, VII	Chapter–8: Gravitation Chapter–9: Mechanical Properties of Solids		5.Helical Spring- Force Constant 6.Newton’s Law of Cooling	4.Change in level of liquid on heating
Nov	VII	Chapter–10: Mechanical Properties of Fluids		7. Sonometer- Constant Tension	5. Effect of detergent on surface tension
Dec	X	Chapter–14: Oscillations Chapter–15: Waves Chapter–11: Thermal Properties of Matter		8, Sonometer- Constant Frequency	6.Decrease in pressure with increase in velocity of fluid.
Jan	VIII,IX	Chapter–12: Thermodynamics Chapter–13: Kinetic Theory			
Feb		Revision			

**Syllabus : Chemistry (043)**

Month	Unit	Topics	Art Integration Activity	Practicals	Subject Enrichment Activity
April'24	1. Some Basic Concepts of chemistry	<b>1. Some Basic Concepts of Chemistry</b> General Introduction: Importance and scope of Chemistry. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry.	Measurements of different objects and their inter conversion	Salt Analysis - Anions	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions
May'24	2. Structure of Atom	<b>2. Structure of Atom</b> Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals.	HHW	Salt Analysis - Anions	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions
July'24	# UT1 3. Classification of Elements and Periodicity in Properties  4. Chemical Bonding and Molecular Structure	<b>3. Classification of Elements and Periodicity in Properties</b> Modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100.  <b>4. Chemical Bonding and Molecular Structure</b> Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of	Arrangement of elements in periodic table  3-D structures of atoms	Salt Analysis - Anions	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions

		homonuclear diatomic molecules(qualitative idea only), Hydrogen bond.			
August'24	5. Chemical Thermodynamics <b># Revision</b>	<b>5. Chemical Thermodynamics</b> Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics - internal energy and enthalpy, measurement of DU and DH, Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics. Introduction of entropy as a state function, Gibb's energy change for spontaneous and non-spontaneous processes. Third law of thermodynamics.		Salt Analysis - Anions	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions 4. Visit
September'24	<b># Half Yearly Examinations</b> 7. Redox Reactions	<b>7. Redox Reactions</b> Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number.		Salt Analysis - Cations	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions
October'24	6. Equilibrium	<b>6. Equilibrium</b> Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle, ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH, buffer solution, solubility product, common ion effect (with illustrative examples).		Salt Analysis - Cations	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions 4. Talk by alumni

November'24	# UT2 8. Organic Chemistry: Some basic Principles and Techniques	<b>8. Organic Chemistry: Some basic Principles and Techniques</b> General introduction, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions.	Study of aromatic compounds	Salt Analysis - Cations	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions
December'24	9. Hydrocarbons	<b>9. Hydrocarbons</b> Classification of Hydrocarbons Aliphatic Hydrocarbons: <b>Alkanes</b> - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions. <b>Alkenes</b> - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition. <b>Alkynes</b> - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water. <b>Aromatic Hydrocarbons:</b> Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity.		Salt Analysis - Cations	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions

January'25	# Revision			# Revision	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions
February'25	# Revision # Annual Examinations			# Revision	
March'25					

### SUBJECT –BIOLOGY

MONTH	UNIT	TOPICS	ART INTEGRATION ACTIVITY	PRACTICALS	SUBJECT ENRICHMENT ACTIVITY
APRIL	Unit-III Cell: Structure and Function	Chapter-10: Cell Cycle and Cell Division  Chapter-8: Cell-The Unit of Life  Chapter-9: Biomolecules		Mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.	
MAY	Unit-I Diversity of Living Organisms	Chapter-1: The Living World  Chapter-2: Biological Classification	HOLIDAYS HW	Specimens/slides/ models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast,	
JULY	Unit-I Diversity of Living Organisms  Unit-II Structural Organization in Plants and Animals	Chapter-3: Plant Kingdom  Chapter-5: Morphology of Flowering Plants  Chapter-6: Anatomy of Flowering Plants		Different types of inflorescence (cymose and racemose).  Specimens/slides/ models and identification with reasons -liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.  Preparation and study of T.S. of dicot and monocot roots and stems (primary).	STUDY OF PLANTS IN THE HERBAL GARDEN  VISIT TO RESEARCH LABS

AUGUST	Unit-IV Plant Physiology	Chapter-13: Photosynthesis in Higher Plants		Separation of plant pigments through paper chromatography	PROJECT WORK
		Chapter-14: Respiration in Plants		Study of distribution of stomata on the upper and lower surfaces of leaves. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.	
SEPTEMBER	Unit-V Human Physiology	Chapter-17: Breathing and Exchange of Gases		Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb).	
OCTOBER	Unit-V Human Physiology	Chapter-18: Body Fluids and Circulation  Chapter-19: Excretory Products and their Elimination  Chapter-20: Locomotion and Movement	EXHIBITION	Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.  Study of osmosis by potato osmometer.	
NOVEMBER	Unit-V Human Physiology	Chapter-21: Neural Control and Coordination  Chapter-22: Chemical Coordination and Integration	PPT ON HUMAN DISEASES	Test for presence of urea in urine.  Test for presence of sugar in urine.  Test for presence of albumin in urine.  Test for presence of bile salts in urine.	TALK BY ALUMNI ON NEET PREPARATION



DECEMBER	Unit-II Structural Organization in Plants and Animals  Unit-I Diversity of Living Organisms	Chapter-7: Structural Organisation in Animals  Chapter-4: Animal Kingdom		Human skeleton and different types of joints with the help of virtual images/models only. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn,	CAREER COUNSELLING
JANUARY	Unit-IV Plant Physiology	Chapter-15: Plant - Growth and Development		Virtual specimens/slides/models and identifying features of - silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.	
FEBRUARY		REVISION			

### SUBJECT –MATHEMATICS

MONTH	UNIT	TOPICS	ART INTEGRATION ACTIVITY	PRACTICALS	SUBJECT ENRICHMANET ACTIVITY
APRIL	UNIT I	<p><b><u>Trigonometry</u></b>            *Positive and negative angles. *Measuring angles in radians and in degrees and *conversion from one measure to another.            * Definition of trigonometric functions with the help of unit circle. *Truth of the identity <math>\sin^2x + \cos^2x = 1</math>, for all x. Signs of trigonometric functions.            *Domain and range of trigonometric functions and their graphs.            Expressing <math>\sin(x \pm y)</math> and <math>\cos(x \pm y)</math> in terms of <math>\sin x</math>, <math>\sin y</math>, <math>\cos x</math> &amp; <math>\cos y</math> and their simple applications.            *Deducing identities like the following: <math>\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \tan y}</math>, <math>\cot(x \pm y) = \frac{\cot x \cot y \mp 1}{\cot y \pm \cot x}</math>  <math>\sin(\alpha \pm \beta) = \sin\alpha \cos\beta \pm \cos\alpha \sin\beta</math></p>	Drawing graphs using Python	1.To plot the graph of $\sin x$ , $\sin 2x$ and $\sin(x/2)$ on the same coordinate axes.	1.Formula booklet 2.Quiz

		$1 - 2(\alpha \mp \beta) \cos \alpha + \cos \beta = 2 \cos \frac{1}{2}(\alpha + \beta) \cos \frac{1}{2}(\alpha - \beta)$ $\cos \alpha - \cos \beta = -2 \sin \frac{1}{2}(\alpha + \beta) \sin \frac{1}{2}(\alpha - \beta)$ Identities related to $\sin 2x$ , $\cos 2x$ , $\tan 2x$ , $\sin 3x$ , $\cos 3x$ and $\tan 3x$ .			
JULY	UNIT II	<b><u>Permutations &amp; Combinations</u></b> *Fundamental principle of counting. Factorial n. (n!) Permutations and combinations, derivation of Formulae for nPr and nCr and their connections, simple applications <b><u>Complex Numbers</u></b> *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		2. To find the number of ways three cards can be selected from given 5 cards.  3. To interpret geometrically the meaning of I and its integral powers	Quiz Case Studies
AUG	UNIT II	<b><u>Sequences &amp; Series</u></b> *Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P., sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M. <b><u>Binomial Theorem</u></b> * Statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, simple applications.		4. To verify the formula for sum of cubes of the first n natural numbers. For n=5  5. Activity on Pascal's Triangle	Case studies
SEP	UNIT III	<b><u>Straight lines</u></b> * Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point - slope form, slope-intercept form, two-point form, intercept form, Distance of a point from a line. <b><u>Conic Sections</u></b> *Sections of a cone: circles, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a	PPT	6. To construct different types of conic sections.	Quiz Case Studies

		conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle			
OCT	UNIT III UNIT II	<b>3-D Geometry</b> *Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points. <b>Linear Inequalities</b> * Algebraic solutions of linear inequalities in one variable and their representation on the number line.		7.To explain the concept of octants by three mutually perpendicular axes.	Exploring Optimisation
NOV	UNIT V	<b>Statistics</b> *Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/grouped data <b>Probability</b> *Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.		8.To write the sample space when a coin is tossed once,two times,three times,four times.	Case studies
DEC	UNIT I	<b>Sets</b> *Empty set, Finite and Infinite sets, Equal sets, Subsets, *Subsets of a set of real numbers especially intervals (with notations). *Universal set. Venn diagrams. Union and Intersection of sets. *Difference of sets. Complement of a set. Properties of Complement <b>Relations &amp; Functions</b> *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,		9.To represent set theoretic operations using Venn Diagrams.	Quiz

		<p>domain, co-domain and range of a relation.</p> <p>*Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function.</p> <p>*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 quotients of functions</p>			
JAN	UNIT IV	<p><b>Limits &amp; Derivatives</b></p> <p>*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.</p> <p>* 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.</p>		<p>10.To find analytically</p> <p>Limit as <math>x \rightarrow c</math></p> $\frac{x^2 - c^2}{x - c}$	Problem Solving
FEB		REVISION & EXAMS			

**SUBJECT -ECONOMICS**

<b>MONTH</b>	<b>UNIT</b>	<b>TOPICS</b>	<b>ART INTEGRATION ACTIVITY</b>	<b>PRACTICAL S</b>	<b>SUBJECT ENRICHMENT ACTIVITY</b>
April	1,2	Introduction to statistics Methods of data collection	-----'	-----	Class discussion on importance of statistics
May	2	Organization of data	-----	Construction of table in class	-----
July	2	Presentation of data	Data Visualization Exercise (15 minutes): <ul style="list-style-type: none"> <li>● Providing students with a set of data related to a topic covered in the chapter (e.g., population growth, climate change, economic trends).</li> <li>● Asking the students to create visual representations of the data using artistic mediums such as drawing, painting, or collage.</li> <li>● Encouraging creativity and interpretation in their visualizations.</li> </ul>	----	-----

August	3	Measures of Central tendency	-----	Solving Numericals in class	-----
September	4,5	Introduction Consumer's equilibrium and demand	Collage making depicting different situations of demand	Numerical Problems to solved	-----
October	6. Producer's behavior and supply	Production function Concept of cost		Numerical Problems to be solved	Class discussion on production patterns of different firms
November	6	Concept of Revenue Price determination	-----	Numerical Problems to be solved	-----
December	7	Simple applications of tools of demand and supply	----	Numerical Problems to be solved	-----
January	3	Measures of Central tendency Index number	-----	Numerical Problems to be solved	-----

### SUBJECT – Accountancy

MONTH	UNIT	TOPICS	ART INTEGRATION ACTIVITY	PRACTICALS	SUBJECT ENRICHMENT ACTIVITY
APRIL	<ul style="list-style-type: none"> <li>• Basic Accounting Terms</li> <li>• Accounting equation</li> </ul>	Basic Accounting Terms.  Accounting Equation Approach:	Prepare a collage depicting various Accounting Terms.  Prepare a quiz by students based on their learning.	Provide students with a variety of problem-solving tasks in Accounting Equation.	Play Tic Tac Toe to encourage active participation and critical thinking. Provide ample practice exercises and worksheets for students to reinforce their understanding.
MAY	<ul style="list-style-type: none"> <li>• Theory Base of Accounting</li> <li>• Basis of accounting</li> </ul>	Fundamental accounting assumptions: GAAP: Concept Basic Accounting Concept : Business Entity, Money	Students will make different transactions on their own.	Assessment Sheets	Encourage students to solve a variety of problems /Case Studies.

		<p>Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure, Consistency, Conservatism, Materiality and Objectivity System of Accounting.</p> <p>•Accounting Standards: Applicability of Accounting Standards (AS) and Indian Accounting Standards (IndAS)</p> <p>Basis of Accounting: cash basis and accrual basis</p>			
JULY	<ul style="list-style-type: none"> <li>• Introduction to Accounting</li> <li>• Rules of Debit and Credit</li> <li>• Voucher</li> <li>• Journal</li> </ul>	<p>Accounting- concept, meaning, as a source of information, objectives, advantages and limitations, types of accounting information; users of accounting information and their needs. Qualitative Characteristics of Accounting Information. Role of Accounting in Business</p> <p>Voucher and Transactions: Source documents and Vouchers, Preparation of Vouchers, Accounting Equation Approach: Meaning and Analysis, Rules of Debit and Credit.</p> <p>•Recording of Transactions: Books of Original Entry- Journal</p>	<p>Flow Chart and star of Different types of Accounts and mnemonics for Rules of Debit and Credit.</p>	<p>Numerical Problems to be solved</p>	<p>Regularly assess students understanding through quizzes, tasks and assignments.</p>
AUGUST	<ul style="list-style-type: none"> <li>• Journal (Contd.)</li> <li>• Simple GST calculations</li> <li>• Ledger</li> <li>• Trial Balance</li> </ul>	<p>Goods and Services Tax (GST): Characteristics and Advantages.</p> <p>Ledger: Format, Posting from journal and subsidiary books, Balancing of accounts</p>	<p>-----</p>	<p>Provide students with a variety of problem-solving tasks.</p>	<p>Regularly assess students understanding through quizzes, tasks and assignments.</p>

		Trial balance: objectives, meaning and preparation			
SEPTEMBER	<b>REVISION TERM I EXAM</b>			Encourage students to solve a variety of problems.	Play games like Tic Tac Toe, intraclass quiz to encourage active participation and critical thinking.
OCTOBER	Cash Book Subsidiary books	Cash Book: Simple, cash book with bank column and petty cashbook (Theory) • Purchases book • Sales book • Purchases return book • Sales return book • Journal proper	Prepare format of Cash Book and Subsidiary Books	Provide students with a variety of problem-solving tasks.	Show students the financial Statements of Different Companies via. Annual Report.
NOVEMBER	Bank Reconciliation Statement Depreciation and Provision and Reserves	Need and preparation, Bank Reconciliation Statement • Depreciation: Meaning, Features, Need, Causes, factors • Other similar terms: Depletion and Amortisation • Methods of Depreciation: i. Straight Line Method (SLM) ii. Written Down Value Method (WDV) • Difference between SLM and WDV; Advantages of SLM and WDV • Method of recoding depreciation i. Charging to asset account ii. Creating provision for depreciation/accumulated depreciation account • Treatment of disposal of asset • Provisions, Reserves, Difference Between Provisions and Reserves. • Types of Reserves: i. Revenue reserve ii. Capital reserve iii. General reserve iv. Specific reserve v. Secret Reserve • Difference	Student will paste pages of Sample Pass book of any Bank account  Prepare format of Cash Flow Statements highlighting with Different colours.	Encourage them to apply the learned concepts to solve these problems step by step.	Provide students with Cash book and Pass Book to compare.  Show students the Cash Flow Statements of Different Companies via. Annual Report.



		between capital and revenue reserve			
DECEMBER	Rectification of Errors Financial Statements	<p>Errors: classification-errors of omission, commission, principles, and compensating; their effect on Trial Balance.</p> <ul style="list-style-type: none"> <li>• Detection and rectification of errors;</li> <li>(i) Errors which do not affect trial balance (ii) Errors which affect trial balance</li> <li>• preparation of suspense account.</li> </ul> <p>Meaning, objectives and importance; Revenue and Capital Receipts; Revenue and Capital Expenditure; Deferred Revenue expenditure. Opening journal entry. Trading and Profit and Loss Account: Gross Profit, Operating profit and Net profit. Preparation. Balance Sheet: need, grouping and marshalling of assets and liabilities.</p>	Students will arrange the Financial Statements of any one company.	Encourage them to apply the learned concepts to solve these problems step by step.	Show students the financial Statements of Different Companies via. Annual Report.
JANUARY	Financial Statements with Adjustments Revision + Practical	<p>Adjustments in preparation of financial statements with respect to closing stock, outstanding expenses, prepaid expenses, accrued income, income received in advance, depreciation, bad debts, provision for doubtful debts, provision for discount on debtors, Abnormal loss, Goods taken for personal use/staff welfare, interest on capital and managers commission.</p> <p>Preparation of Trading and Profit and Loss account and Balance Sheet of a sole proprietorship with adjustments.</p>	Student will write 10 Adjustment and their treatment on Project File Sheet.	Encourage them to apply the learned concepts to solve these problems step by step by	Show students the financial Statements of Different Companies via. Annual Report with Adjustments.
FEBRUARY	Revision Annual Exam				

**SUBJECT - Business studies**

MONTH	UNIT	TOPICS	ART INTEGRATION ACTIVITY	PRACTICALS	SUBJECT ENRICHMENT ACTIVITY
April	1	Evolution and fundamentals of Business	-----	-----	Discussion about business in ancient times
May	2	Forms of Business organizations	Collage making depicting various forms of business	Assessment sheet	-----
July	2,3	Forms of business organizations to be continued  Public , Private and Global enterprises	-----	-----	Group discussion regarding changing role of public sector Enterprises
August	4	Business Services	Poster making depicting various types of business services prevailing in economy	-----	-----
September	5	Emerging modes of Business	-----	-----	-----
October	6,7	Social responsibility of business and business ethics  Sources of Business Finance	Powerpoint presentation	---	-----
November	8	Small Business	-----	-----	Analysis about statups
December	9	Internal Trade	-----'	-----'	-----
January	10.	International Trade	-----	-----	-----

**SUBJECT: PSYCHOLOGY**

<b>MONTH</b>	<b>UNIT</b>	<b>TOPICS TO BE COVERED</b>	<b>ART INTEGRATION ACTIVITY</b>	<b>PRACTICALS</b>	<b>SUBJECT ENRICHMENT ACTIVITY</b>
April 2024	Unit 1: Introduction to Psychology	1. Introduction 2. What is Psychology? <input type="checkbox"/> Psychology as a Discipline <input type="checkbox"/> Psychology as a Natural Science <input type="checkbox"/> Psychology as a Social Science 3. Understanding Mind and Behaviour 4. Popular Notions about the Discipline of Psychology 5. Evolution of Psychology 6. Development of Psychology in India 7. Branches of Psychology 8. Psychology and Other Disciplines 9. Psychology in Everyday Life	-Mind map		-Introduction to Project work.
May 2024	-Unit 2: Methods of Enquiry in Psychology.	1. Introduction 2. Goals of Psychological Enquiry <input type="checkbox"/> Steps in Conducting Scientific Research 32 Periods <input type="checkbox"/> Alternative Paradigms of Research 3. Nature of Psychological Data 4. Some Important Methods in Psychology <input type="checkbox"/> Observational Method <input type="checkbox"/> Experimental Method <input type="checkbox"/> Correlational Research <input type="checkbox"/> Survey Research <input type="checkbox"/> Psychological Testing <input type="checkbox"/> Case Study 5. Analysis of Data <input type="checkbox"/> Quantitative Method <input type="checkbox"/> Qualitative Method 6. Limitations of Psychological Enquiry 7. Ethical Issues	-Poster making.	Introduction to Experimental Psychology.	-Class room Presentations
June 2024					

July 2024	-Unit 3: Human Development	1. Introduction 2. Meaning of Development □ Life-Span Perspective on Development 3. Factors Influencing Development 4. Context of Development 5. Overview of Developmental Stages □ Prenatal Stage □ Infancy □ Childhood □ Challenges of Adolescence □ Adulthood and Old Age	-Chart making depicting the various stages.		-Project Work Showcasing.
August 2024	-Unit 4: Sensory, Attentional and Perceptual processes	1. Introduction 2. Knowing the world 3. Nature and varieties of Stimulus 4. Sense Modalities □ Functional limitation of sense organs 5. Attentional Processes □ Selective Attention □ Sustained Attention 6. Perceptual Processes □ Processing Approaches in Perception 7. The Perceiver 8. Principles of Perceptual Organisation 9. Perception of Space, Depth and Distance □ Monocular Cues and Binocular Cues 10. Perceptual Constancies 11. Illusions 12. Socio-Cultural Influences on Perception	-Experiential Learning Activity	Experiment 1: Verbal Learning	-Quiz
September 2024	Revision for Half yearly Examinations				
October 2024	-Unit 5: learning	1. Introduction 2. Nature of Learning 3. Paradigms of Learning 4. Classical Conditioning □ Determinants of Classical Conditioning 5. Operant/Instrumental Conditioning □ Determinants of Operant Conditioning □ Key Learning Processes 6. Observational Learning 7. Cognitive Learning 8. Verbal Learning 9. Skill Learning	-Video Presentation on Learning Disability		-Role Play of learning principles.

		10.Factors Facilitating Learning 11.Learning Disabilities			
November 2024	-Unit 6: Human Memory	1. Introduction 2. Nature of memory 3. Information Processing Approach : The Stage Model 4. Memory Systems : Sensory, Short-term and Long-term Memories 5. Levels of Processing 6. Types of Long-term Memory □ Declarative and Procedural; Episodic and Semantic 7. Nature and Causes of Forgetting □ Forgetting due to Trace Decay, Interference and Retrieval Failure 8. Enhancing Memory □ Mnemonics using Images and Organisation	-Mind Map	Experiment 2: Memory Span.	
December 2024	-Unit 7: Thinking	1. Introduction 2. Nature of Thinking □ Building Blocks of Thought 3. The Processes of Thinking 4. Problem Solving 5. Reasoning 6. Decision-making 7. Nature and Process of Creative Thinking □ Nature of Creative Thinking □ Process of Creative Thinking 8. Thought and Language 9. Development of Language and Language Use	-Experiential Learning Activity		
January 2025	-Unit 8: Motivation and Emotion	The topics in this unit are: 1. Introduction 2. Nature of Motivation 3. Types of Motives □ Biological Motives □ Psychosocial Motives 4. Maslow’s Hierarchy of Needs 5. Nature of Emotions 6. Expression of Emotions □ Culture and Emotional Expression	-Poster making of various emotions experienced by Human Beings.		-Class room presentations

		<input type="checkbox"/> Culture and Emotional Labelling 7. Managing Negative Emotions 8. Enhancing Positive Emotions			
Feb 2025	-Revision				
March 2025	Annual Examination				

**SUBJECT – Political Science (028)**

MONTH	UNIT	TOPICS	ART INTEGRATION ACTIVITY	PRACTICALS	SUBJECT ENRICHMENT ACTIVITY
April	Book 1 Ch 1,2,9	1. Constitution: Why and How? 2. Rights in the Indian Constitution 9. Constitution as a Living Document	Creating PPT	Individual submission of PPT on types of Rights	Debate and Discussion
May	Book 1 Ch 10,3	10. The Philosophy of the Constitution 3. Election and Representation 4. Executive	Skit		A small skit on Election and Representation
June					
July	Book 1 Ch4,5	4. Executive 5. Legislature	Cartoon making involving Political Satire/Slogan		MUN
August	Book 1 Ch6,7	6. Judiciary 7. Federalism	Role Play as Ambassadors / Delegates	Group Project on Judiciary, Federalism and Local Governments	MUN
September	Book 1 Ch 8 Book 2 Ch 1	8. Local Governments 1. Political Theory: An Introduction			
October	Book 2 Ch 2	2. Freedom	Cartoon Analysis		In Depth case study of China, Afghanistan, Turkey and Iran in context to Freedom
November	Book 2 Ch 3,4	3. Equality 4. Social Justice			
December	Book 2 Ch 5,6	5. Rights 6. Citizenship	Role Play		Role playing on Refugee in context to Rights and Citizenship
January	Book 2 Ch 7,8	7. Nationalism 8. Secularism	Political Songwriting	Project File on any one of the Topics of the Curriculum involving Intensive and	Documentary showcasing representing the true meaning of Secularism in context to the western and Indian model

				thorough Research	
February	Book 2 Ch 8 Contd.	8. Secularism		Portfolio Submission	

**SUBJECT: SOCIOLOGY**

<b>MONTH</b>	<b>UNIT</b>	<b>TOPICS</b>	<b>ART INTEGRATION ACTIVITY</b>	<b>PRACTICALS</b>	<b>SUBJECT ENRICHMENT ACTIVITY</b>
APRIL	BOOK 1 – CHAPTER – 1  CHAPTER – 2	SOCIOLOGY AND SOCIETY  TERMS, CONCEPTS AND THEIR USE IN SOCIOLOGY		NEWSPAPER ACTIVITY	NEWS HEADLINE READING  DISCUSSION WORKSHEET
MAY	BOOK 1 – CHAPTER – 2 (Contd)	TERMS, CONCEPTS AND THEIR USE IN SOCIOLOGY	PROJECT ON SOCIAL ISSUE  PROVIDING WITH THE GUIDELINES OF THE PROJECT	CHOOSING A TOPIC ON SOCIAL ISSUE FOR THE PROJECT  HYPOTHESIS AND INTRODUCTION OF THE PROJECT	NEWS HEADLINE READING  DISCUSSION WORKSHEET
JULY	BOOK 1 - CHAPTER 1 & 2  CHAPTER 3	RECAPTULATION OF BOTH THE LESSONS  UNDERSTANDING SOCIAL INSTITUTIONS	REPEATING THE GUIDELINES  GROUP ACTIVITY - PPT PRESENTATION	CHOOSING A TOPIC ON SOCIAL ISSUE FOR THE PROJECT  HYPOTHESIS AND INTRODUCTION OF THE PROJECT	NEWS HEADLINE READING DISCUSSION DEBATE WORKSHEET ASSIGNMENT
AUGUST	BOOK – 1 CHAPTER – 4	CULTURE AND SOCIALISATION  RESEARCH METHODS	GROUP ACTIVITY - COLLAGE MAKING OF NEWS PAPER ARTICALS		NEWS READING DISCUSSION DEBATE WORKSHEET ASSIGNMENT
SEPTEMBER	BOOK 2 – CHAPTER – 2	SOCIAL CHANGE AND SOCIAL ORDER IN RURAL AND URBAN SOCIETY		MOCK PROJECT PRESENTATION & VIVA	NEWS HEADLINE READING  HALF YEARLY EXAM
OCTOBER	BOOK 2 – CHAPTER – 2 (Contd.)	SOCIAL CHANGE AND SOCIAL ORDER IN RURAL AND URBAN SOCIETY (Contd.)			DEBATE NEWS HEADLINE READING WORKSHEET

					ASSIGNMENT
NOVEMBER	BOOK 2 – CHAPTER – 4	INTRODUCING WESTERN SOCIOLOGISTS	PPT PRESENTATION – INDIVIDUAL ACTIVITY		QUIZ DISCUSSION WORKSHEETS ASSIGNMENTS
DECEMBER	BOOK 2 – CHAPTER – 5	INDIAN SOCIOLOGISTS	PPT PRESENTATION – INDIVIDUAL ACTIVITY		DISCUSSION WORKSHEETS ASSIGNMENTS
JANUARY	REVISION				ASSIGNMENTS
FEBRUARY	FINAL EXAM				
MARCH	FINAL EXAM				

**SUBJECT – INFORMATICS PRACTICES 11<sup>th</sup>**

MONTH	UNIT	TOPICS	ART INTEGRATION ACTIVITY	PRACTICALS	SUBJECT ENRICHMENT ACTIVITY
Apr-24	<b>Unit 1: Introduction to Computer System</b> & <b>Unit 2: Introduction to Python</b>	<b>Introduction to computer and computing:</b> evolution of computing devices, components of a computer system and their interconnections, Input/output devices. <b>Computer Memory:</b> Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. <b>Software:</b> purpose and types – system and application software, generic and specific purpose software. <b>Basics of Python</b> programming, execution modes: - interactive and script mode, the structure of a program	Creating PPT's based on different topics as follows: <b>1.</b> Computer system and its devices <b>2.</b> Computer Memory <b>3.</b> Software	<b>LAB BASED ON: PYTHON PROGRAMMING INPUT OUTPUT AND PROCESS , DATATYPE</b>	<b>Research and Presentation:</b> Divide the class into small groups. Assign each group a specific era in the history of computing, such as the mechanical era, vacuum tube era, transistor era, etc. Ask students to research and prepare a presentation on the computing devices developed during their assigned era. Encourage them to include information about the key inventions, technological advancements, and their impact on computing.
May-24	<b>Unit 2: Introduction to Python</b>	Indentation, identifiers, keywords, constants, variables, types of operator, precedence of operators, data types, mutable and immutable data types, statements, expression evaluation. Comments, input and output statements, data		<b>LAB BASED ON: PYTHON PROGRAMMING</b> <b>1.</b> Operator <b>2.</b> Comments <b>3.</b> Data type conversion	Creating banner and charts: Introduction to Data Types and Operators: Begin by introducing the concept of data types in Python, including numeric types (int, float), strings, lists, tuples, and



		type conversion, debugging.			dictionaries. Explain the role of operators in performing operations on these data types.
Jun-24	<b>Unit 2: Introduction to Python</b>	Control Statements: if-else, if-elif-else, while loop, for loop		<b>PYTHON PROGRAMMING</b>	Create banner on to practice Implementing different types of control statements in Python.
Jul-24	<b>Unit 2: Introduction to Python</b>	<b>Control Statements:</b> if-else, if-elif-else, while loop, for loop	<b>Preparing Practical File programs based on the following:</b> 1. Flow of Control 2. Conditional statements 3. Iterative Statement	<b>LAB BASED ON: PYTHON PROGRAMMING</b> 1. Flow of Control 2. Conditional statements 3. Iterative Statement	Create banner on to practice implementing different types of loop statements in Python.
Aug-24	<b>Unit 2: Computational Thinking and Programming - I</b>	<b>Lists:</b> list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions – len(),list(),append(),insert( ), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum() <b>Dictionary:</b> concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del, clear()	<b>Preparing Practical File programs based on the following:</b> 1. Lists 2. Dictionary	<b>LAB BASED ON: PYTHON PROGRAMMING</b> 1. Lists 2. Dictionary	Create banner: To reinforce understanding of list operations and built-in functions in Python.
Sep-24		Practical File submission + <b>HALF YEARLY EXAM</b> Practical preparation + Revision and doubt session : 6th to 21st : <b>HALF YEARLY EXAM</b>	Practical File Work	Practical File Work	
Oct-24	<b>Unit 3: Database concepts and the Structured Query Language</b>	Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: Concept of domain, tuple,	<b>Preparing Practical File programs based on the following:</b> 1. MySQL	<b>LAB BASED ON: PYTHON PROGRAMMING</b> MySQL	Create Chart and explain: Identify the entities (tables) needed for the database.

	<b>Database</b>	relation, candidate key, primary key, alternate key Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL, creating a database using MySQL, Data Types			
Nov-24	<b>Unit 3: Database concepts and the Structure d Query Language Database</b>	Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL Data Manipulation: INSERT, DELETE, UPDATE	<b>Preparing Practical File programs based on the following:</b> 1. MySQL 2. Data Query 3. SELECT, Delete 4. Drop, Alter 5. INSERT 6. DELETE 7. UPDATE	<b>LAB BASED ON: PYTHON PROGRAMMING MySQL</b>	Create Chart and explain: : To understand and apply the concepts of creating and managing databases and tables in SQL.
Dec-24	<b>Unit 4: Introduction to the Emerging Trends</b>	Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.	Creating PPT's based on different topics.	<b>Practical File</b>	Create Chart and explain: Block chain Technology Exploration
Jan-25		Practical File submission + Annual exam practical preparation + Revision unit 2 and 3 for annual exams		<b>Practical File</b>	
Feb-25		Revision and dou 21st Onwards ANNUAL E			

**SUBJECT – COMPUTER SCIENCE 11<sup>th</sup>**

MON TH	UNIT	TOPICS	ART INTEGRATI ON ACTIVITY	PRACTICA LS	SUBJECT ENRICHMANET ACTIVITY
Apr-24	Unit 1: Computer Systems and Organisation  &  Unit 2: Computational Thinking and Programming - I	<ul style="list-style-type: none"> <li>● Basic computer organisation: Introduction to Computer System, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (bit, byte, KB, MB, GB, TB, PB)</li> <li>● Types of software: System software (Operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler, and interpreter), application software</li> <li>● Operating System(OS): functions of the operating system, OS user interface</li> <li>● Introduction to Problem-solving: Steps for Problem-solving (Analysing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudocode, decomposition</li> <li>● 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(keyword, identifier, literal, operator, punctuator), variables, concept of L-value and R-value, use of comments</li> </ul>	Creating PPT's based on different topics as follows: 1. Computer system and its devices 2. Types of software 3. Flowchart 4. Features of python 5. Character set	<p align="center"><b>LAB BASED ON: PYTHON PROGRAM MING INPUT OUTPUT AND PROCESS , DATATYPE</b></p>	<p align="center"><b>Activity 1:</b> Basic Computer Organization Prepare a chart comparing primary, cache, and secondary memory, highlighting their characteristics and usage.</p> <p align="center"><b>Activity 2:</b> Familiarization with Basics of Python Programming Provide a comprehensive overview of Python character set, tokens (keyword, identifier, literal, operator, punctuator), and variables.</p>
May-24	Unit 1: Computer Systems and Organisation	<ul style="list-style-type: none"> <li>● Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuits</li> <li>● Number System: Binary, Octal, Decimal and Hexadecimal number system;</li> </ul>	Creating PPT's based on different topics as follows: 1. Boolean logic 2. Number System	<p align="center"><b>LAB BASED ON: PYTHON PROGRAM MING CHARACTER SETS, TOKENS L AND R VALUES</b></p>	<p align="center">Play game based on Logic AND OR NOT</p>
Jun-24	Unit 1: Computer Systems and Organisation	<ul style="list-style-type: none"> <li>● Boolean logic</li> <li>● Number System</li> </ul>		<p align="center"><b>PYTHON PROGRAM MING</b></p>	

				TOKENS L AND R VALUES	
Jul-24	Unit 2: Computational Thinking and Programming - I	<ul style="list-style-type: none"> <li>• Knowledge of <b>data types</b>: Number (integer, floating point, complex), Boolean, sequence (string, list, tuple), None, Mapping(dictionary), mutable and immutable data types.</li> <li>• <b>Operators</b>: arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in not in)</li> <li>• <b>Expressions, statement, type conversion, and input/output</b>: precedence of operators, expression, evaluation of an expression, type-conversion (explicit and implicit conversion), accepting data as input from the console and displaying output.</li> <li>• <b>Errors</b>- syntax errors, logical errors, and run-time errors</li> <li>• <b>Flow of Control</b>: introduction, use of indentation, sequential flow, conditional and iterative flow</li> <li>• <b>Conditional statements</b>: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value, sort 3 numbers and divisibility of a number.</li> </ul>	<p><b>Practical File programs based on the following:</b></p> <ol style="list-style-type: none"> <li>1. Flow of Control</li> <li>2. Conditional statements</li> </ol>	<p><b>LAB BASED ON: PYTHON PROGRAMMING</b></p> <ol style="list-style-type: none"> <li>1. DATA TYPES</li> <li>2. OPERATORS</li> <li>3. EXPRESSIONS</li> <li>4. STATEMENT</li> <li>5. TYPE CONVERSION</li> <li>6. INPUT/OUTPUT</li> </ol>	<p>ITC ACTIVITY BASED ON :</p> <p><b>relational operators, logical operators</b></p> <p>Enhance understanding of flow control and conditional statements in Python programming.</p>
Aug-24	Unit 2: Computational Thinking and Programming - I	<ul style="list-style-type: none"> <li>• <b>Iterative Statement</b>: for loop, range(), while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number, etc.</li> <li>• <b>Strings</b>: introduction, string operations (concatenation, repetition, membership and slicing), traversing a string using loops, built-in functions/methods-len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(), rstrip(), strip(),</li> </ul>	<p><b>Practical File programs based on the following:</b></p> <ol style="list-style-type: none"> <li>1. Iterative Statement</li> <li>2. Strings</li> <li>3. Lists</li> </ol>	<p><b>LAB BASED ON: PYTHON PROGRAMMING</b></p> <ol style="list-style-type: none"> <li>1. Flow of Control</li> <li>2. Conditional statements</li> <li>3. Iterative Statement</li> </ol>	<p>Task 1: Write a Python program using iterative statements to generate a specific pattern.</p> <p>Task 2: To reinforce understanding of lists, list</p>

		<p>replace(), join(), partition(), split())</p> <ul style="list-style-type: none"> <li>● <b>Lists:</b> introduction, indexing, list operations (concatenation, repetition, membership and slicing), traversing a list using loops, built-in functions/methods–len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, suggested programs: finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list.</li> </ul>			operations, and list traversal through practical programming exercises.
Sep-24		<p>Practical File submission + HALF YEARLY EXAM Practical preparation + Revision and doubt session : 6th to 21st HALF YEARLY EXAM</p>	Practical File Work	Practical File Work	
Oct-24	Unit 2: Computational Thinking and Programming - I	<ul style="list-style-type: none"> <li>● <b>Tuples:</b> introduction, indexing, tuple operations (concatenation, repetition, membership and slicing); built-in functions/methods – len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple; suggested programs: finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple.</li> </ul>	<p><b>Practical File programs based on the following:</b></p> <ol style="list-style-type: none"> <li>1. Tuples</li> </ol>	<p><b>LAB BASED ON: PYTHON PROGRAMMING</b></p> <ol style="list-style-type: none"> <li>1. Tuples</li> </ol>	To reinforce understanding of tuples, tuple operations, and built-in functions/methods in Python.
Nov-24	Unit 2: Computational Thinking and Programming - I	<ul style="list-style-type: none"> <li>● <b>Dictionary:</b> introduction, accessing items in a dictionary using keys, mutability of a dictionary (adding a new term, modifying an existing item), traversing a dictionary, built-in functions/methods – len(), dict(), keys(), values(), items(), get(), update(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), sorted(); Suggested programs: count the number of times a character appears in a</li> </ul>	<p><b>Practical File programs based on the following:</b></p> <ol style="list-style-type: none"> <li>1. Dictionary</li> </ol>	<p><b>LAB BASED ON: PYTHON PROGRAMMING</b></p> <ol style="list-style-type: none"> <li>4. Dictionary</li> <li>5. Python modules</li> </ol>	Develop a Python program that showcases the functionalities of the random module. Import the random module and utilize functions like random(), randint(), and randrange() to generate random numbers. Implement scenarios where

		<p>given string using a dictionary, create a dictionary with names of employees, their salary and access them.</p> <ul style="list-style-type: none"> <li>● <b>Introduction to Python modules:</b> Importing module using 'import &lt;module&gt;' and using from statement, importing math module (pi, e, sqrt(), ceil(), floor(), pow(), fabs(), sin(), cos(), tan()); random module (random(), randint(), randrange()), statistics module (mean(), median(), mode()).</li> </ul>			<p>random numbers are required, such as generating random passwords or simulating dice rolls.</p>
Dec-24	Unit 3: Society, Law and Ethics	<ul style="list-style-type: none"> <li>● Digital Footprints</li> <li>● Digital Society and Netizen: net etiquettes, communication etiquettes, social media etiquettes</li> <li>● Data Protection: Intellectual property rights (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source software and licensing (Creative Commons, GPL and Apache)</li> <li>● Cyber Crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, cyber trolls, cyber bullying</li> <li>● Cyber safety: safely browsing the web, identity protection, confidentiality</li> <li>● Malware: viruses, trojans, adware</li> <li>● E-waste management: proper disposal of used electronic gadgets.</li> <li>● Information Technology Act (IT Act)</li> <li>● Technology and society: Gender and disability issues while teaching and using computers</li> </ul>	Creating PPT's based on different topics.	Practical File Work	<b>Organize a cyber-safety awareness campaign in your school or community.</b>
Jan-25		<p>Practical File submission + Annual exam practical preparation + Revision unit 2 and 3 for annual exams</p>	Practical File Work	Practical File Work	
Feb-25		<p>Revision and doubt session : 21st Onwards ANNUAL EXAM BEGINS</p>			

## GAMES , SPORTS AND FITNESS

MONTH	UNIT	TOPICS	ART INTEGRATION ACTIVITY	PRACTICALS	SUBJECT ENRICHMENT ACTIVITY
April and May	<p>1st week - General motor fitness drills.</p> <p>2nd week - Mass PT for co-ordination</p> <p>3rd week - strength and flexibility.</p> <p>4th week - Free play.</p>	<p>1.Warming up 2.Continuous run/walk. 3.Free hand exercises in group.</p> <p>1.Warming up 2.Free hand exercises for mobility. 3.Four exercises will be practiced in 16 counts each.</p> <p>1.Body weight exercises for upper body strength. a. Push ups with modification for boys and girls. b. Plank, V Position hold for Core strength. 2. Dynamic and Static stretching exercises for upper and lower body. Football Basket ball Badminton Self game</p>	N/A	N/A	N/A
July	<p>1st week - General motor fitness drills.</p> <p>2nd week - Mass PT for coordination</p> <p>3rd week - speed, agility.</p> <p>4th week -Free play</p>	<p>1.Running/jogging(15 mins) 2.Slowfast run/walk. 3.Free hand exercises/calisthenics.</p> <p>1.Warming up 2.Free hand exercises. 3.Six exercises will be practiced in groups, supervised by teacher and student leaders.</p> <p>1.Warming up 2.Free hand exercises. 3.50 mts,80 mts sprints with repetitions.</p> <p>Football Basketball Badminton Self game</p>			

August	<p>1st week - General and specific motor fitness drills.</p> <p>2nd week - March past practice.</p> <p>3rd week - Indigenous game, kho kho</p> <p>4th week - Game play</p>	<p>Running, jumping and shuffling drills on hurdles and cones.</p> <p>1.Standing in file formation 2.Marching on the spot. 3.About turn practice. 4. Quarter turn right and left. Teaching rules and regulations kho kho with game play. Basketball Football Badminton Self game</p>			
September	<p>1st week - Evaluation</p> <p>2nd and 3rd week - Term 1 exams</p> <p>4th week - Free play</p>	<p>Fitness test Viva</p> <p>Term 1 Exams</p> <p>Football Basketball Volleyball Badminton</p>			
October	<p>1st and 2nd week Mass PT March past</p> <p>3rd and 4th week</p> <p>Free play</p>	<p>1.Exercise 1 to 8. practice in one group supervised by student leader and teacher. 2.Marching on the spot. 3.Forward march. 4.practice for arm actions.</p> <p>Football Basketball Badminton Dodgeball</p>			
November	RBCL	RBCL			
December	RBCL	RBCL			
January	<p>1st week and 2nd week</p> <p>3rd week - Group fitness drills</p> <p>4th week - Free play</p>	<p>Winter break</p> <p>1.Shuttle Run. 2.Push ups 3.Sit ups</p> <p>Football Basketball Badminton</p>			
February	Evaluation	Fitness test Viva			