# RAMJAS INTERNATIONAL SCHOOL R K PURAM



Syllabus Class – 12<sup>th</sup> (2024-25)

SUBJECT -ENGLISH CORE (301)									
	CLASS-XII								
MONTH	UNIT	торіс	ART INTEGRATION	PRACTICALS	SUBJECT ENRICHMENT ACTIVITY				
APRIL		Notice Writing Invitation and Reply Writing	Role Play Illustrate the scene observed		Look for Public Notices in their environment.  Look for samples				
		Writing: Letter to The Editor Writing: Job Application	by the poet		of Letters to the Editor from newspapers				
MAY		Literature: Prose (Flamingo) - The Lost Spring Literature: Prose (Vistas) - The Third Level Literature: Prose (Vistas) - Journey to the end of the Earth	Compose a song/poem based on the genre of the prose piece		Dialogue Writing: Press Reporter and Saheb/Mukesh				
JULY		Literature: Poem (Flamingo) - Keeping Quiet Literature: Prose (Flamingo) - Deep Water Writing: Report Writing Literature: Poem (Flamingo) - A Thing of Beauty	Relate to the prose piece 'Indigo' to bring out the themeovercoming fear.  Illustrate their concept of a 'Thing of Beauty'		Worksheets				
AUGUST		Literature: Prose (Flamingo) - The Rattrap			Report Writing- Independence Day Celebrations in our school				
AUGUST		Literature: Poem (Vistas) - The Tiger King Writing: Article Writing			Article Writing- Golden Jubilee Celebration at school				
SEPTEMBER		Literature: Prose (Vistas) - The Enemy Literature: Prose (Flamingo) - Indigo Literature: Poem (Flamingo) - Aunt Jennifer's Tigers	Pictorial illustration of the poem		Slogan Writing				

	Literature: Prose	Role Play		
	(Flamingo) - Going	•		
	Places			
	Literature: Prose			
	(Vistas) - Memories			
	of Childhood			
	Literature: Prose			
OCTOBER	(Flamingo) - The			Interview Writing
	Interview			_
	Literature: Prose			
	(Flamingo) - Poets			
	& Pancakes			
	Literature: Poem			
	(Flamingo) - A			Compare and
	Roadside Stand			contrast the
NOVEMBER	Literature: Prose			characters of the
	(Vistas) - On the			poem with those of
	Face of It			'The Lost Spring'

## SUBJECT -PHYSICS

MONTH	UNIT	TOPICS	ART INTEGRATION ACTIVITY	PRACTICALS	SUBJECT ENRICHMENT ACTIVITY
April	Ι	Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance		1.Ohms law, 2.Meter bridge- resistance 3. Meter bridge- series	1. To assemble a circuit
May	II, III	Chapter—3: Current Electricity Chapter—4: Moving Charges and Magnetism		4.Prism – angle of min deviation	2. Open circuit/ Closed circuit
June	III	Chapter–4: Moving Charges and Magnetism			
July	III,IV	Chapter–5: Magnetism and Matter Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current	Investigatory Project	5.'f'-Convex lens	3. to study variation of potential drop
Aug	V, VI	Chapter–8: Electromagnetic Waves Chapter–9: Ray Optics and Optical Instruments		6.'f'-Convex mirror 7.Frequency- AC Mains	
Sept	VI	Chapter-10: Wave Optics			4.Identify Diode etc
Oct	VII, VIII, IX	Chapter–11: Dual Nature of Radiation and Matter Chapter–12: Atoms Chapter–13: Nuclei		8.P- Junction	5.Nature and size- convex lens 6. Polariser / Analyser

		Chapter–14: Semiconductor		
		Electronics:Materials,		
		Devices and Simple		
		Circuits		
Nov	VIII,	Revision		
	IX			
Dec		Revision &Pre Board 1		
		Exam		
Jan		Pre Board 2 Exam		
Feb				

Syllabus: Chemistry (043)

Month	Unit	Topics	Art Integration Activity	Practicals	Subject Enrichment Activity
April'24	2. Electrochemistry 3. Chemical Kinetics	2. Electrochemistry Redox reactions, EMF of a cell, standard electrode potential, Relation between Gibbs energy change and EMF of a cell, Nernst equation and its application to chemical cells,conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis.  3. Chemical Kinetics Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions).	Development and study of different type of cells	(i) Characteristic tests of carbohydrates, fats and proteins in pure samples and their detection in given foodstuffs.  (ii) Characteristic tests of functional groups	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions
May'24	1. Solutions # Pre UT1	1. Solutions Types of solutions, expression of concentration of solutions of solids in	HHW	Volumetric analysis Determination of concentration/ molarity of	1. Worksheets 2. Discussion of PYQ

		liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties.	KMnO4 solution by titrating it against a standard solution of (i) Oxalic Acid (ii) Mohr's Salt	3. Discussion of important Questions
July'24	# UT1 6. Haloalkanes and Haloarenes 7. Alcohols, Phenols and Ethers	6. Haloalkanes and Haloarenes Haloalkanes: Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions. Haloarenes: Nature of C–X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only).  7. Alcohols, Phenols and Ethers Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration. Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophillic substitution reactions, uses of phenols. Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses.	Chromatography Salt analysis	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions
August'24	8. Aldehydes, Ketones and Carboxylic acids	8. Aldehydes, Ketones and Carboxylic Acids Aldehydes and Ketones: Nomenclature, nature of	Salt analysis	1. Worksheets 2. Discussion of PYQ

	9. Organic compounds containing Nitrogen	carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses.  Carboxylic Acids:Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.			3. Discussion of important Questions 4. Visit
		9. Organic compounds containing Nitrogen Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.			
September'24	# Half Yearly Examinations  10. Biomolecules	10. Biomolecules Carbohydrates: Classification (aldoses and ketoses), monosaccahrides (glucose and fructose), D-L configuration Proteins: Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins. Nucleic Acids: DNA and RNA	Study of different food items and their composition	# Revision	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions
October'24	<ul><li>4. d and f block elements</li><li>5. Coordination Compounds</li></ul>	4. d-and f-Block Elements General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals – metallic character, ionization enthalpy, oxidation states, ionic		# Revision	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions 4. Talk by alumni

		radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation.  Lanthanoids - Electronic configuration, oxidation states and lanthanoid contraction and its consequences.  5. Coordination  Compounds  Coordination  compounds -  Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT.		
November'24	# Revision # PB1		# Revision	1. Worksheets 2. Discussion of PYQ 3. Discussion of important Questions
December'24	# PB2 # Mock Practicals		# Revision	
January'25	# Revision # Practical Examinations			
February'25	# Revision			
March'25	# CBSE Board Examinations			

## SUBJECT -MATHEMATICS CLASS 12 (2024-2025)

		ATICS CLASS 12 (2024-2025)			A
MONTH	UNIT	TOPICS	ART	PRACTICALS	SUBJECT
			INTEGRATION		ENRICHMENT
			ACTIVITY		ACTIVITY
APRIL	UNIT II	Matrices	CS Coding on	1.To check the	Quiz
	UNIT III	*Order of a matrix.	construction	continuity of a	
		*Types of Matrices	of a matrix	function at a	
		*Construction of a matrix		given point.	
		*Equality of Matrices		g. ren penna	
		*Adjoint & Inverse of a Matrix			
		*Symmetric & Skew Symmetric			
		Matrices			
		*Breaking a square matrix as sum of			
		a symmetric and a skew Symmetric			
		Matrix.			
		Determinants			
		*Evaluation of a Determinant by any			
		row or any column.			
		*Area of a triangle using			
		Determinants.			
		*Collineartity of 3 points using			
		determinants.			
		*discussion on Continuity &			
		Differentiability			
		*Differentiation			
MAY	UNIT I	Relations & Functions	CS Coding on	2.Graph of	Case Studies
		*Types of Relations	drawing the	$\sin^{-1} x$ .	On Relations
	UNIT V	*Types of Functions	graphs of the		& Functions.
		*Inverse trigonometry	functions.	3. Checking of	
		*Principal value branch		one one &	
		*Graphs of Inverse trigonometric		onto functions	
		Functions.			
		*LPP		4.Rolles	
		*Solving a system of constraints by		theorem	
		corner point method.		tireorem.	
JULY	UNIT III	Indefinite Integration		5.LMV	Problem
JULI	OINII III	*Integral as anti derivative		Theorem	solving
		_		Ineorem	Solving
		*By Substitution			
		*By using Trigonometry			
		*By Partial fractions			
		*By Parts			
		*Standard forms			
		& Definite Integration.			
AUG	UNIT III	*Solving Definite integrals using		6.Distance	Formula
		properties		Formula in 3-	Booklet
		*AO		D	making
		*Differential Equations			
		*Order and degree of a differential			
		equation			
		*Variable Seperable DE			
		*Homogeneous DE			
		*Linear DE			
SEP	UNIT III	*Derivative as a rate measurer			Case studies
JLF	OINII III	Delivative as a rate illeasurer			case studies

		*Increasing and decreasing functions			
OCT	UNIT III UNIT IV	*Maxima Minima *First Derivative Test *Second Derivative Test *Vectors Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. *Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, components of a vector, addition of vectors, *Multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors. * Vector (cross) product of vector	of Mi 8.A Ma	Application Maxima nima Absolute axima nima	Case studies
NOV	UNIT IV UNIT VI	3-D *Equations of lines *In Vector and Cartesian Form *Angle between lines *Skew lines *Distance between parallel lines *PROBABILITY *Conditional Probability *Independent Events *Bayes theorem *PD Table	Ver the ser rig 10. Pro	Prove using ctors that e angle in a mi circle is a ht angle. Conditional obability tivity.	Case Studies Problem Solving.
DEC		PREBOARDS			QUIZ REASONING
JAN		PREBOARDS			

## **SYLLABUS SUBJECT -BIOLOGY**

MONTH	UNIT	TOPICS	ART	PRACTICALS	SUBJECT
			INTEGRATION		ENRICHMENT
			ACTIVITY		ACTIVITY
	Unit-VII	Chapter-5:		Study the plant	PROJECT
	Genetics and	Principles of		population density	WORK (will
	Evolution	Inheritance and		by quadrat method.	continue till half
		Variation			yearly)
				Study the plant	
APRIL	Unit-VI			population	
	Reproduction	Chapter-2: Sexual		frequency by	
		Reproduction in		quadrat method	
		Flowering Plants			
	Unit-VII			Prepare a temporary	
	Genetics and			mount of onion root	
	Evolution			tip to study mitosis.	

		Chapter-6: Molecular Basis of Inheritance			
MAY	Unit-VI Reproduction	Chapter-3: Human Reproduction	HHW	Prepare a temporary mount to observe pollen germination.	
JULY	Unit-VI Reproduction  Unit-IX Biotechnology and its Applications	Chapter-4: Reproductive Health  Chapter-11: Biotechnology - Principles and Processes  Chapter-12: Biotechnology and its Applications	RESEARCH AND PPT PRESENTATIO N	Mendelian inheritance using seeds of different colour/sizes of any plant.  Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness  Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.	VISIT
AUGUST	Unit-VII Genetics and Evolution	Chapter-7: Evolution		Flowers adapted to pollination by different agencies (wind, insects, birds).	
	Unit-X Ecology and Environment	Chapter-13: Organisms and Populations		Pollen germination on stigma through a permanent slide or scanning electron micrograph.  Models specimen showing symbolic association in root modules of leguminous plants, Cuscuta on host, lichens.  Flash cards models showing examples of homologous and analogous organ  Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing	

			ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.	
SEPTEMB ER	exam			
OCTOBER	Unit-VIII: Biology and Human Welfare	Chapter-8: Human Health and Diseases Chapter-10: Microbes in Human Welfare	Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (fromgrasshopper/m ice).	TALK ON NEET PREPARATION
	Unit-X Ecology and Environment	Chapter-14: Ecosystem	Meiosis in onion bud cell or grasshopper testis through permanent slides.  T.S. of blastula through permanent slides (Mammalian)  Controlled pollination - emasculation, tagging and bagging.	
NOVEMBE R				CAREER COUNSELLING
DECEMBE R	PB-1			
JANUARY	PB-2			

	SUBJECT – ECONOMICS						
MONTH	UNIT	TOPICS	ART INTEGRATION ACTIVITY	PRACTIC ALS	SUBJECTENRICH -MENT ACTIVITY		
April	1	Introduction to Macro Economics Circular Flow of Income national Income and Related Aggregates	Data Visualization Art: students to analyze real-world economic data related to national income, such as GDP, GNP, disposable income, and consumption patterns. Then, challenging them to create artistic data visualizations, such as infographics or digital artworks, that communicate their findings in a visually compelling way.	Numerical Problems to be	Assessment Sheet		
May	II,IV	Money and Banking Govt. Budget	Banknote Collage: Provide old banknotes (no longer in circulation) or photocopies of banknotes and have students create collages depicting different aspects of money and banking, such as saving, investing, inflation, or financial institutions.		Organize a role-play activity where students take on different roles in a simulated banking environment, such as bank tellers, customers, loan officers, and financial advisors. This can help reinforce understanding of banking procedures and customer interactions.		
July	III	Determination of Income and employment	Economic Policy Posters: Challenge students to design posters advocating for specific economic policies aimed at promoting income growth and employment opportunities. They can research policies such as minimum wage laws, fiscal stimulus measures, or education and training initiatives, and visually communicate their potential impacts.	Numerical Problems to be solved	Assessment sheets		

August	VI	Indian Economy Development Experience (1947-90) and Economic Reforms since 1991			Economic Reforms Debate: Organize a structured debate where students take on the roles of policymakers, economists, business leaders, and social activists to argue for and against specific economic reform policies implemented in India since 1991. This activity can help students understand different perspectives on economic issues and policy choices.
Septembe r	VIII	Current Challenges facing Indian Economy  # Human capital formation  #rural Development	Rural Development Multimedia Presentations: students to be divided into small groups and each group is assigned a specific aspect of rural development to research and present to the class. They will be encouraged to use multimedia tools such as PowerPoint, Prezi, or video presentations to communicate their findings effectively. They can incorporate images, videos, music, and narration to provide insights into challenges and opportunities related to rural development in India.	Any one topic can be taken for CBSE Board Practical file and data analysis to be done	Nil
october	VIII	# Employment  # Sustainable development		Same as in September	
November	VIII	Development Experiences of India a comparison from neighbouring countries China and Pakistan	Economic Data Visualizations: Have students research and analyze economic data from India, China, and Pakistan, such as GDP growth rates, income distribution, poverty levels, and infrastructure development. Then, ask them to create data visualizations, such as graphs, charts, or infographics, to illustrate their findings artistically and highlight key differences and similarities among the three countries.		Assessment sheets

Decembe	V	Balance of	Global Currency Map:		
r		Payments and	Have students create a	Numerical	
		foreign	world map highlighting	Problems	
		exchange	different currencies and	to be	
			their exchange rates	solved	
			relative to a base currency		
			(e.g., US dollar). They can		
			use color-coding or		
			symbols to indicate the		
			strength or weakness of		
			each currency, as well as		
			factors influencing		
			exchange rate movements		
			such as inflation, interest		
			rates, and geopolitical		
			events.		

# Accountancy

MONTH	UNIT	TOPICS	ART	PRACTICAL	SUBJECT
			INTEGRATIO N ACTIVITY	S	ENRICHMEN T ACTIVITY
APRIL	FUNDAME NTALS OF PARTNERS HIP	<ul> <li>Partnership: features,</li> <li>Partnership Deed.</li> <li>Provisions of the</li> <li>Indian Partnership Act</li> <li>1932</li> <li>in the absence of</li> <li>partnership deed.</li> <li>Fixed v/s fluctuating</li> <li>capital accounts.</li> </ul> Preparation of Profit and	Prepare a table showing Provisions of the Indian Partnership Act 1932 in the absence of partnership deed. Prepare a quiz	Provide students with a variety of problem-solving tasks.	Play Tic Tac Toe to encourage active participation and critical thinking.  Provide ample practice exercises and
	AND VALUATIO N OF GOODWIL L	Loss Appropriation account Past adjustments Guarantee of profits.  Meaning, Nature, Factors Affecting and Methods of valuation	by students based on their learning.		worksheets for students to reinforce their understanding.
MAY	RECONSTI TUTION OF PARTNERS HIP: - A) CHANGE IN PSR AMONG EXISTING PARTNERS	sacrificing ratio, gaining ratio, accounting for revaluation of assets and reassessment of liabilities and treatment of reserves, accumulated profits and losses. Preparation of revaluation account and balance sheet.	Flow Chart of Different Treatment at the time of Reconstitution	Numerical Problems to be solved	Regularly assess students understanding through quizzes, tasks and assignments.
JULY	RECONSTI TUTION	Effect of admission	The	Provide	Regularly assess students

	OF	of a partner on change	opportunity to	students with	understanding
	PARTNERS	in the profit sharing	explain by table	a variety of	through
	HIP: -	ratio, treatment of	how	problem-	quizzes,
	B)	goodwill (as per AS 26),	concepts and	solving tasks.	tasks and
	ADMISSIO	treatment for revaluation	variables of		assignments.
	N OF A	of assets and re-	Reconstitution		
	PARTNER	assessment of liabilities,	are		
	(CONTINU	treatment of	related to one		
	ED)	reserves, accumulated profits and	another.		
		losses,adjustment of			
		capital accounts and			
		preparation of capital,			
		current account and			
		balance sheet.			
		Effect of			
		retirement / death of a			
		partner on change in			
		profit sharing ratio,			
		treatment of goodwill			
		(as			
		per AS 26), treatment for revaluation of			
		assets and reassessment			
		of liabilities,			
		adjustment of			
		accumulated profits,			
		losses			
		and reserves, adjustment			
		of capital accounts			
		and preparation of			
		capital, current account			
	C)	and balance sheet.			
	RETIREME	Preparation of loan			
	NT OF A	account of the retiring			
AUGUST	PARTNER RECONSTI	partner. Calculation of deceased	The	Encourage	Play games like
ACGUSI	TUTION	partner's share of	opportunity to	students to	Tic Tac Toe,
	OF	profit till the date of	explain by table	solve a	intraclass quiz
	PARTNERS	death. Preparation of	how	variety of	to encourage
	HIP: -	deceased partner's	concepts and	problems.	active
	D) DEATH	capital account and his	variables are		participation
	OF A	executor's account.	related to one		and critical
	PARTNER	Meaning	another&		thinking.
		of dissolution of	causes		
		partnership and			
		partnership firm, types of			
		dissolution of a firm.			
		Settlement			
		of accounts -			
		preparation of			
		realization			
		account, and other			
		related accounts: capital			

	A) FINANCIA L STATEMEN TS OF A COMPANY	accounts of partners and cash/bank a/c (excluding piecemeal distribution, sale to a company and insolvency of partner(s)).  Meaning, Nature, Uses and importance of financial Statement. Statement of Profit and Loss and Balance Sheet in After going through this Unit, the students will be able to:  • develop the understanding of major headings and sub-headings (as per Schedule III to the prescribed form with major headings and sub headings (as per Schedule III to the Companies Act, 2013)			
SEPTEMBE R	REVISION TERM I EXAM B) ANALYSIS OF FINANCIA L STATEMEN TS	Financial Statement Analysis: Meaning, Significance Objectives, importance and limitations.  Tools for Financial Statement Analysis: Comparative statements, common size statements, Ratio analysis, Cash flow analysis.	Prepare vertical Financial Statemants highlighting with Different colours.	Provide students with a variety of problem-solving tasks.	Show students the financial Statements of Different Companies via. Annual Report.
OCTOBER	C) ACCOUNTI NG RATIOS	Accounting Ratios: Meaning, Objectives, Advantages, classification and computation. • Liquidity Ratios • Solvency Ratios • Activity Ratios • Profitability Ratios  Meaning, objectives Benefits, Cash and Cash Equivalents, Classification of Activities and	PPT depicting Different Ratios	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. And variables to find different Ratios to make the topic more relatable and relevant for students.

NOVEMBE	D) CASH FLOW STATEMEN T	preparation (as per AS 3 (Revised) (Indirect Method only) CFS with (i)Adjustments relating to depreciation and amortization, profit or loss on sale of assets including investments, dividend (both final and interim) and tax. (ii) Bank overdraft and cash credit to be treated as short term borrowings. (iii) Current Investments to be taken as Marketable securities unless otherwise specified.  • Features and types of companies. • Share and share capital: nature and types.  • Accounting for share capital: issue and allotment of equity and preferences shares. Public subscription of shares; issue at par and at premium, calls in advance and arrears (excluding interest), issue of shares for consideration other than cash.  • Concept of Private Placement and Employee Stock Option Plan (ESOP), Sweat Equity.	Prepare format of Cash Flow Statemants highlighting with Different colours.		Show students the Cash Flow Statements of Different Companies via. Annual Report.
NOVEMBE R	ACCOUNTI NG FOR SHARE CAPITAL (CONTINU ED)	Accounting treatment of forfeiture and re issue of shares. • Disclosure of share capital in the Balance Sheet of a company.  Debentures: Meaning, types, Issue of debentures at par, at a premium and at a discount. Issue of		Encourage them to apply the learned concepts to solve these problems step by step.	

ISSUE OF DEBENTU RES  PROJECT WORK COMPLETI ON	debentures for consideration other than cash; Issue of debentures with terms of redemption; debentures as collateral security-concept, interest on debentures (concept of TDS isexcluded).  Writing off discount / loss on issue of		

#### SUBJECT – Business Studies

MONT H	UNIT	TOPICS	ART INTEGRA TION ACTIVITY	PRACTIC ALS	SUBJECT ENRICHMENT ACTIVITY
April	Marketin g Manage ment  Consume r Protectio n	<ul> <li>Marketing – Concept, functions and philosophies</li> <li>Marketing Mix – Concept and elements</li> <li>Product – branding, labelling and packaging – Concept</li> <li>Price - Concept, Factors determining price</li> <li>Physical Distribution – concept, components and channels of distribution</li> <li>Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations</li> <li>Consumer Protection: Concept and importance</li> <li>he Consumer Protection Act, 2019: Source: http://egazette.nic.in/WriteReadData/2019/210422.pdf Meaning of consumer Rights and responsibilities of consumer Rights and responsibilities of consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs)</li> <li>Management - concept, objectives, and importance</li> <li>Management - concept, objectives, and importance</li> </ul>	Design label of product  Design and Developme nt of new product  Prepare a chart showing different levels of manageme nt and the designation s on different levels.	Project  Assessme nt Sheet	Apply 4 P's in Developing new product.  Simple techniques to Memory Techniques remember points.

	Nature and Significa nce of Manage ment	<ul> <li>Management - concept, objectives, and importance</li> <li>Management functions-planning, organizing, staffing, directing andcontrolling</li> <li>Coordination- concept and importance</li> </ul>			
May	Principle s of Manage ment	<ul> <li>Principles of Management - concept and significance</li> <li>Fayol's principles of management</li> <li>Taylor's Scientific management - principles and techniques</li> </ul>	Asking the students to create visual representations of the Principles of Management	Assessme nt Sheet Project	Students can be tasked with designing posters, infographics, or multimedia presentations that illustrate princip les.
					Simple techniques to Memory Techniques remember points.
May	Business Environ ment	<ul> <li>Business Environment- concept and importance</li> <li>Dimensions of Business Environment - Economic, Social, Technological, Political and Legal</li> <li>Demonetization - concept and features</li> </ul>	Design Mind maps mnemonics to memorise	Project	Students examine real- world examples of businesses and analyze their impact on the ec onomy and vice- versa.
July	Planning	<ul> <li>Planning: Concept, importance and limitation</li> <li>Planning process</li> <li>Single use and Standing Plans.         Objectives, Strategy, Policy, Procedure, Method, Rule, Budget and Programme     </li> <li>Controlling - Concept and importance</li> </ul>	Design Mind maps to memorise	Assessme nt Sheet	Students examine real- world examples of Controlling Activities done at different Levels in Organisation.
	ng	<ul><li>Relationship between planning andcontrolling</li><li>Steps in process of control</li></ul>			
August	Organisi ng	<ul> <li>Organising: Concept and importance</li> <li>Organising Process</li> <li>Structure of organisation- functional and divisional concept. Formal and informal organization – concept</li> <li>Delegation: concept, elements and importance</li> <li>Decentralization: concept and importance</li> </ul>	Design Mind maps to memorise	Assessme nt Sheets	Organisation Chart of Different Business Organisation to understand the flow of Authority and Responsibility.

1 a Matting Clangant and immediate as of	i e		
<ul> <li>Staffing: Concept and importance of Staffing</li> <li>Staffing as a part of Human Resource Management concept</li> <li>Staffing process</li> <li>Recruitment process</li> <li>Selection – process</li> <li>Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule training, apprenticeship training and internship training</li> </ul>			
<ul> <li>Financial Management: Concept, role and objectives</li> <li>Financial decisions: investment,</li> </ul>	Prepare Line graph to show fluctuations in price.	students examine real-world Companie, analyze and design ntheir own portfolio.  Numerical Problems to solved	Stock Market Simulation Game.
<ul> <li>Directing: Concept and importance</li> <li>Elements of Directing</li> <li>Motivation - concept, Maslow's hierarchy of needs, Financial and non-financial incentives</li> <li>Leadership - concept, styles - authoritative, democratic and laissez faire</li> <li>Communication - concept, formal and informal communication; barriers to effective communication, how to overcome the barriers?</li> </ul>	Role Play	Assessme nt Sheets	Skit involving Barriers to effective Communication
11	Staffing Staffing as a part of Human Resource Management concept Staffing process Recruitment process Selection – process Training and Development - Concept and importance, Methods of training - on thejob and off the job - vestibule training, apprenticeship training and internship training  Financial Management: Concept, role and objectives Financial decisions: investment, financing and dividend - Meaning and factors affecting. Financial Planning - concept and importance Capital Structure – concept and factors affecting capital structure Fixed and Working Capital - Concept and factors affecting their requirements.  Financial Markets: ConceptMoney Market: Concept Capital market and its types (primary and secondary) Stock Exchange - Functions and trading procedure Securities and Exchange Board of India (SEBI) - objectives and functions  Directing: Concept and importance Elements of Directing Motivation - concept, Maslow's hierarchy of needs, Financial and non-financial incentives Leadership - concept, styles - authoritative, democratic and laissez faire Communication - concept, formal and informal communication; barriers to effective communication, how to	Staffing Staffing as a part of Human Resource Management concept Staffing process Recruitment process Selection – process Training and Development - Concept and importance, Methods of training on thejob and off the job - vestibule training, apprenticeship training and internship training  I Financial Management: Concept, role and objectives Financial decisions: investment, financing and dividend - Meaning and factors affecting. Financial Planning - concept and importance Capital Structure – concept and factors affecting capital structure Fixed and Working Capital - Concept and factors affecting their requirements.  Financial Markets: ConceptMoney Market: Concept Capital market and its types (primary and secondary) Stock Exchange - Functions and trading procedure Securities and Exchange Board of India (SEBI) - objectives and functions  G Directing: Concept and importance Elements of Directing Motivation - concept, Maslow's hierarchy of needs, Financial and non-financial incentives Leadership - concept, styles - authoritative, democratic and laissez faire Communication - concept, formal and informal communication; barriers to effective communication, how to	Staffing Staffing as a part of Human Resource Management concept Staffing process Recruitment process Selection – process Training and Development - Concept and importance, Methods of training on thejob and off the job - vestibule training, apprenticeship training and internship training Financial Management: Concept, role and objectives Financial decisions: investment, financing and dividend - Meaning and factors affecting. Financial Planning - concept and importance Capital Structure – concept and factors affecting capital structure Fixed and Working Capital - Concept and factors affecting their requirements.  Financial Markets: ConceptMoney Market: Concept Capital market and its types (primary and secondary) Stock Exchange - Functions and trading procedure Securities and Exchange Board of India (SEB) - objectives and functions  Directing: Concept and importance Elements of Directing Motivation - concept, Maslow's hierarchy of needs, Financial and non-financial incentives Leadership - concept, styles - authoritative, democratic and laissez faire Communication - concept, formal and informal communication; barriers to effective communication, how to

## **SUBJECT: PSYCHOLOGY**

MONTH	UNIT	TOPICS TO BE	ART	PRACTICALS	SUBJECT
		COVERED	INTEGRATION ACTIVITY		ENRICHMENT ACTIVITY
April	-Unit 1:	1. Introduction	- Experiential	-Introduction to	-Introduction to
2024	Variations in	2. Individual Differences	Activity	Psychological	Case Study
	Psychological	in Human Functioning		testing.	
	Attributes.	3. Assessment of			
		Psychological Attributes			
		4. Intelligence			
		5. Psychometric Theories			
		of Intelligence,			
		Information			
		Processing Theory:			
		Planning, Attention-			
		arousal and			
		Simultaneous successive			
		Model of Intelligence,			
		Triarchic Theory of			
		Intelligence; Theory of			
		Multiple			
		Intelligences.			
		6. Individual Differences			
		in Intelligence			
		7. Culture and			
		Intelligence			
		8. Emotional Intelligence			
		9. Special Abilities:			
		Aptitude: Nature and			
	-Unit 2: Self	Measurement			
	and	10.Creativity			
	Personality.	1. Introduction			
		2. Self and Personality			
		3. Concept of Self			
		4. Cognitive and			
		Behavioural aspects of			
		Self			
		5. Culture and Self			
		6. Concept of Personality			
		7. Major Approaches to			
		the Study of Personality			

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May 2024	-Unit 2: Self	8. Assessment of	-Poster making	- Practical 1:	-Case Subject
	and	Personality		Raven's	Selection and
	Personality	☐ Self-report Measures		Progressive	data collection.
		☐ Projective Techniques		Matrices.	
		☐ Behavioural Analysis			
		1.Introduction			
		2.Nature, Types and			
		Sources of Stress			
		3. Effects of Stress on			
		Psychological			
	-Unit 3:	Functioning and			
	Meeting	Health			
	Life's	☐ Stress and Health			
	challenges.	☐ General Adaptation			
		Syndrome			
		☐ Stress and Immune			
		System			
		☐ Lifestyle			
		4. Coping with Stress			
		☐ Stress Management			
		Techniques			
		5. Promoting Positive			
		Health and Well-being			
		☐ Life Skills			
		☐ Positive Health			
July 2024	-Unit 4:	1. Introduction	-Video	-Practical 2:	-Case Study
July 2024					
	Psychological	2. Concepts of	Presentation of	Maudsley	work
	Disorders	Abnormality and	various disorders.	Personality	
		Psychological Disorders		Inventory	
		☐ Historical Background			
		3. Classification of			
		Psychological Disorders			
		4. Factors Underlying			
		Abnormal Behaviour			
		5. Major Psychological			
		Disorders			
		☐ Anxiety Disorders			
		☐ Obsessive-Compulsive			
		and Related Disorders			
		☐ Trauma-and Stressor-			
		Related Disorders			
		☐ Somatic Symptom and			
		Related Disorders			
		☐ Dissociative Disorders			
		☐ Depressive Disorder			
		☐ Bipolar and Related			
		Disorders			
		☐ Schizophrenia			
		Spectrum and Other			
		=			
		Psychotic			
		Disorders			
		☐ Neurodevelopmental			
		Disorders			
		☐ Disruptive, Impulse-			
	I				
•		Control and Conduct			
		Control and Conduct Disorders			

		☐ Feeding and Eating		
		Disorders		
		☐ Substance Related and		
		Addictive Disorders		
August	-Unit 5:	1. Nature and Process of	-Practical 3:	-Role play of
2024	Therapeutic	psychotherapy	Sinha's	various therapies
	Approaches	☐ Therapeutic	comprehensive	and techniques.
	1 1 P P 1 0 WO 11 0 0	relationship	Anxiety Scale.	
		2. Types of Therapies	Timilety Searce	
		☐ Behaviour Therapy		
		☐ Cognitive Therapy		
		☐ Humanistic-Existential		
		Therapy		
		☐ Alternative Therapies		
		☐ Factors contributing to		
		healing in Psychotherapy		
		☐ Ethics in		
		Psychotherapy 3. Rehabilitation of the		
G . 1	TT 10 1	Mentally III		
September	-Half yearly	Revision		
2024	Examinations		<b>7</b>	~ 1
October	-Unit 6:	1. Introduction	Practical 4:	-Case study
2024	Attitude and	2. Explaining Social	Sodhi's	review
	Social	Behaviour	Attitude Scale	
	Cognition	3. Nature and		
		Components of Attitudes		
		4. Attitude Formation and		
		Change		
		☐ Attitude Formation		
		☐ Attitude Change		
		☐ Attitude-Behaviour		
		Relationship		
		5. Prejudice and		
		Discrimination		
		6. Strategies for Handling		
		Prejudice		
November	Unit 7: Social	1. Introduction	Practical 5: Self	-Final case
2024	Influence and	2. Nature and Formation	Concept Scale	profile review
	Group	of Groups	<u> </u>	and Interview.
	processes	3. Type of Groups		
	_	4. Influence of Group on		
		Individual Behaviour		
		☐ Social Loafing		
		☐ Group Polarisation		
December	Pre Board			
2024	examination			
2027	2/14/11/14/10/11			1

# Political Science (028)

MONTH	UNIT	TOPICS	ART INTEGRATION ACTIVITY	PRACTICALS	SUBJECT ENRICHMENT ACTIVITY
April	Book 1 Ch 1,2	1. The End of Bipolarity 2. Contemporary Centres of Power	PPT	Individual submission of PPT on Contemporary Centres of Power	Documentary Screening on the background of Bipolarity
May	Book 1 Ch 3,4	<ul><li>3. Contemporary</li><li>South Asia</li><li>4. International</li><li>Organizations</li></ul>	Small skit on relevance of UN and SAARC		Peer Teaching and Reviewing
June				Selection of Topic for Board Submission of Projects	
July	Book 1 Ch 5,6	5. Security in the Contemporary World 6. Environment and Natural Resources	Case Study of India's Challenges in context to Non-Traditional threats to Security	Group Project on Security- Traditional and Non Traditional or Environmental Movements and Concerns	Debate and Discussion on asymmetric and proxy warfare
August	Book 1 Ch 7 Book 2 Ch 1,2	7. Globalization 1. Challenges of Nation Building 2. Era of One Party Dominance			MUN
September	Ch 3,4&5	3. Politics of Planned Development 4. India's External Relations 5. Challenges and Restoration of the Congress System	Role Play as Foreign Delegates/Ambassadors/High Commissioners		MUN
October	Book 2 Ch 6	6. The Crisis of Democratic Order	Political Cartoons		Mock Parliament Session
November	Book 2 Ch 7,8	7. Regional Aspirations 8. Recent Development in Indian Politics	Performance Art involving enactment of Political Speeches	Final Submission and Review of Boards Project File	Political Campaign Simulation
December				Mock Practical	
January				Final Boards Practical	

# SOCIOLOGY

MONTH	UNIT	TOPICS	ART INTEGRATIO N ACTIVITY	PRACTICALS	SUBJECT ENRICHMEN T ACTIVITY
APRIL	BOOK 1 – CHAPTER 2 CHAPTER 3	THE DEMOGRAPHI C STRUCTURE OF THE INDIAN SOCIETY SOCIAL	GROUP WORK  – PPT PRESENTATIO N ON SOCIAL INEQUALITY	NEWSPAPER ACTIVITY	DEBATE NEWS HEADLINE READING WORKSHEET ASSIGNMENT
	POOK 1	INSTITUTIONS: CONTINUITY AND CHANGES	DROJECT ON	CHOOGBIC	DOLE BLAY
MAY	BOOK 1 – CHAPTER 5 BOARD PRACTICAL - PROJECT ON SOCIAL ISSUE	PATTERN OF SOCIAL INEQUALITY SELECTION OF TOPIC FOR PROJECT	PROJECT ON SOCIAL ISSUE  PROVIDING WITH THE GUIDELINES OF THE PROJECT	CHOOSING A TOPIC ON SOCIAL ISSUE FOR THE PROJECT HYPOTHESIS AND INTRODUCTIO N OF THE PROJECT	ROLE PLAY DISCUSSION DEBATE WORKSHEET ASSIGNMENT
JULY	BOOK – 1 CHAPTER 6 BOOK 2 – CHAPTER 1	THE CHALLENGES OF CULTURAL DIVERSITY STRUCTURAL CHANGE	PPT PRESENTATIO N ON THE STRUCTURAL CHANGES IN RURAL AND URBAN SOCIETY	CHECKING THE PROJECT	NEWS HEADLINE READING DISCUSSION DEBATE WORKSHEET ASSIGNMENT
AUGUST	BOOK – 2 CHAPTER 2 CHAPTER – 4	CULTURAL CHANGE CHANGE AND DEVELOPMEN T IN RURAL SOCIETY			DEBATE WORKSHEET ASSIGNMENT DISCUSSION ON NEWS PAPER ARTICALS
SEPTEMBE R	BOOK 2 CHAPTER – 5	CHANGE AND DEVELOPMEN T IN INDUSTRIAL SOCIETY			HALF YEARLY EXAM
OCTOBER	BOOK 2 – CHAPTER 8	SOCIAL MOVEMENT		MOCK PROJECT PRESENTATION & VIVA	NEWS READING WORKSHEET

	BOOK 2 –	SOCIAL		NEWS
	CHAPTER 8	MOVEMNT		READING
NOVEMBER	(CONTD)	(CONTD.)		WORKSHEET
				REVISION
				TEST
	PRE-	REVISION		ASSIGNMENT
DECEMBER	BOARDS			S
	BUARDS			WORKSHEETS
	PRE-	REVISION		ASSIGNMENT
	BOARDS			S
JANUARY	BOARD			WORKSHEETS
	PRACTICAL			
	S			
FEBRUARY	BOARD			
FEBRUARY	EXAMS			

## SUBJECT - INFORMATICS PRACTICES 12th

MONT H	UNIT	TOPICS	ART INTEGRATION ACTIVITY	PRACTICALS	SUBJECT ENRICHMANE TACTIVITY
Apr-24	Unit 1: Data Handling using Pandas -I	Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames. Series: Creation of Series from — ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing. Data Frames: creation - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing; Importing/Exportin g Data between CSV files and Data Frames.	Preparing Practical File programs based on the following:  1. Series 2. Data Frames	Practical File programs based on the following:  1. Series 2. Data Frames	Data Manipulation with Pandas DataFrames

May-24	Unit 1: Data Handling using Pandas -I	Data Visualization Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram Customizing plots: adding label, title, and legend in plots.	Preparing Practical File programs based on the following:  1. Data Visualizatio n	Practical File programs based on the following:  Data Visualization	Creating banner: To understand the purpose of data visualization and to learn how to plot and draw different types of plots using Matplotlib, including line plots, bar graphs, and histograms.
Jun-24	Unit 2: Database Query using SQL	Revision of database concepts and SQL commands covered in class XI	Preparing practical file of MySQL	Practical File programs based on the following: MySQL	
Jul-24	Unit 2: Database Query using SQL	Revision of database concepts and SQL commands covered in class XI Math functions: POWER (), ROUND (), MOD ().  Text functions: UCASE ()/ UPPER (), LCASE ()/ LOWER (), MID ()/ SUBSTRING ()/ SUBSTRING ()/ SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM ().  Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME ().  Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*).  Querying and manipulating data using Group by, Having, Order by. Working with two tables using equijoin	Preparing practical file of MySQL	Practical File programs based on the following:  1.MySQL 2.Math functions 3. Date Function s 4.Text functions 5.Aggregate Functions 6.equi-join	Design a database schema for the chosen organization, considering the following: Identify and define the entities (e.g., customers, products, orders). Determine the attributes for each entity. Establish relationships between entities (one-to-one, one-to-many, many-to-many).  Define appropriate keys (primary keys, foreign keys) for maintaining data integrity.

Aug-24	Unit 3: Introduction to Computer Networks	Introduction to networks, Types of network: PAN, LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW, and its applications-Web, email, Chat, VoIP. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.	Preparing Practical File	Preparing Practical File	Create a presentation on network devices highlighting their types, functions, and importance in networking.
Sep-24		Practical File submission + HALF YEARLY EXAM Practical preparation + Revision and doubt session: 6th to 21st HALF YEARLY EXAM	Preparing Practical File	Preparing Practical File	
Oct-24	Unit 3: Database Managemen t	• CSV: Importing/Exportin g Data between CSV files and Data Frames • Interface of python with an SQL database: connecting SQL with Python, performing	Practical File + Project work started	Practical File + Project work started	Task Description: Import data from a CSV file into a Python DataFrame and perform data manipulation operations such as filtering, sorting, or statistical analysis. Then, export the

Nov-24	Unit 4: Societal Impacts	insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries  Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. E-waste: hazards and management. Awareness about health concerns	Practical File + Project work started	Practical File + Project work started	modified DataFrame back to a CSV file.  Cyber Safety Awareness Campaign: To raise awareness about digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, cybercrime and cyber laws, hacking, phishing, cyberbullying, and an overview of the Indian IT
Dec-24		related to the usage of technology  Revision and doubt session all units	Practical File + Project work started	Practical File + Project work started	Act.
Jan-25	CBSE Board Practical Exams	Practical File submission + practical preparation + Revision and doubt session :			
Feb-25	CBSE Board Practical Exams	Revision and doubt session:			

## SUBJECT - COMPUTER SCIENCE 12th

MONT H	UNIT	TOPICS	ART INTEGRATIO N ACTIVITY	PRACTICA LS	SUBJECT ENRICHMAN ET ACTIVITY
Apr-24	Unit 3: Database Management	<ul> <li>◆ Database concepts: introduction to database concepts and its need</li> <li>◆ Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)</li> <li>◆ Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join</li> </ul>	Preparing notes and practical file of MySQL	Practical File programs based on the following:  1. MySQL 2. Data Query 3. SELECT 4. Delete 5. Drop 6. Alter 7. INSERT 8. DELETE UPDATE	Design a database schema for the chosen organization, considering the following: Identify and define the entities (e.g., customers, products, orders). Determine the attributes for each entity. Establish relationships between entities (one-to-one, one-to-many, many-to-many). Define appropriate keys (primary keys, foreign keys) for maintaining data integrity.
May-24	Unit 1: Computation al Thinking and Programmin g – 2	• Revision of Python topics covered in Class XI.		Practical File programs based on the following: Class XI all important topics like Function list, dictionary and string	

Jul-24	Unit 1: Computation al Thinking and Programmin g – 2	• Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope) • Exception Handling: Introduction, handling exceptions using try-except-finally blocks • Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths	Preparing Practical File programs based on the following:  1. Functions 2. Exception Handling 3. Introduction to files	Practical File programs based on the following: 1. Functions 2. Exception Handling 3. Introductio n to files	Create a chart: 1. Functions 2. Exception Handling 3. Introduction to files
Aug-24	Unit 1: Computation al Thinking and Programmin g – 2	<ul> <li>Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file</li> <li>Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file</li> <li>CSV file: import csv module, open / close csv file, write into a csv file using writer(), writerow(), writerows() and read from a csv file using reader()</li> <li>Data Structure: Stack, operations on stack (push &amp;</li> </ul>	Preparing Practical File programs based on the following:  1.Text file 2.Binary file 3.CSV file 4.Data Structure	Practical File programs based on the following: 5.Text file 6.Binary file 7.CSV file 8.Data Structure	Activity based on file modes

	1	non)			
		pop), implementation of stack			
		using list.			
		Practical File submission			
		+			
		HALF YEARLY EXAM			
		Practical preparation	Preparing	Preparing	Preparing
Sep-24		+	Practical File	Practical File	Practical File
		Revision and doubt session	Work	Work	Work
		6th to 21st			
		HALF YEARLY EXAM			
		• Interface of python with			
		an SQL database:			
		connecting SQL with			
Oct-24		Python, performing	Practical File + Project work started	Project work started	
		insert, update, delete			
		queries using cursor,			Creating banner
	Unit 3:	display data by using			based on
	Database	connect(), cursor(), execute(),			different type of
	Management	commit(), fetchone(),			data access
		fetchall(), rowcount,			activity
		creating database			
		connectivity applications,			
		use of %s format specifier			
		or format() to perform			
		queries			
		• Evolution of networking:			
		introduction to computer networks, evolution of			
		networking			
		(ARPANET, NSFNET,			
		ÎNTERNET)			
	Unit 2: Computer Networks	Data communication			
		terminologies: concept of			
		communication,			
		components of data			
		communication (sender, receiver, message,			Banner Activity
		communication media,	Practical File + Project work	Project work started	
		protocols), measuring			Network devices
Nov-24		capacity of communication			Network
		media (bandwidth, data	started		protocol
		transfer rate), IP address,			
		switching techniques			
		(Circuit switching, Packet			
		switching) • Transmission media:			
		Wired communication			
		media (Twisted pair cable,			
		Co-axial cable, Fiber-optic			
		cable), Wireless media			
		(Radio waves, Micro			
		waves, Infrared			
		waves)			

		<ul> <li>Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)</li> <li>Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree)</li> <li>Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP</li> <li>Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting</li> </ul>			
Dec-24		Revision and doubt session all units	Practical File + Project work started	Project work started	
Jan-25	CBSE Board Practical Exams	Practical File submission + practical preparation + Revision and doubt session			
Feb-25	CBSE Board Practical Exams	Revision and doubt session			

## $\operatorname{GAMES}$ , SPORTS AND FITNESS

MONTH	UNIT	TOPICS	ART INTEGRATIO N ACTIVITY	PRACTICA LS	SUBJECT ENRICHMANET ACTIVITY
April and May	1st week - General motor fitness drills.  2nd week - Mass PT for co-ordination  3rd week - strength and flexibility.	1.Warming up 2.Continuous run/walk. 3.Free hand exercises in group.  1.Warming up 2.Free hand exercises for mobility. 3.Four exercises will be practiced in 16 counts each.  1.Body weight exercises for upper body strength.	N/A	N/A	N/A

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.  4th week - Free play.  Football Basket ball Badminton Self game 1.Running/jogging(15 mins) 2.Slowfast run/walk. 3.Free hand exercises/calisthenics.  2nd week - Mass PT for coordinition 2.Free hand exercises. 3.Six exercises will be practiced in groups, supervised by teacher and student leaders.  1.Warming up  1.Warming up
and girls. b. Plank, V Position hold for Core strength. 2. Dynamic and Static stretching exercises for upper and lower body.  4th week - Free play.  Football Basket ball Badminton Self game  July  Ist week - General motor fitness drills.  2nd week - Mass PT for coordinition  I. Running/jogging(15 mins) 2. Slowfast run/walk. 3. Free hand exercises/calisthenics.  1. Warming up 2. Free hand exercises. 3. Six exercises will be practiced in groups, supervised by teacher and student leaders.
b. Plank, V Position hold for Core strength. 2. Dynamic and Static stretching exercises for upper and lower body.  4th week - Free play.  Football Basket ball Badminton Self game  July  1st week - General motor fitness drills. 2.Slowfast run/walk. 3.Free hand exercises/calisthenics.  2nd week - Mass PT for coordinition  1.Warming up 2.Free hand exercises. 3.Six exercises will be practiced in groups, supervised by teacher and student leaders.
V Position hold for Core strength.  2. Dynamic and Static stretching exercises for upper and lower body.  4th week  - Free play.  Football Basket ball Badminton Self game  July  1st week - General motor fitness drills.  2.Slowfast run/walk. 3.Free hand exercises/calisthenics.  2nd week - Mass PT for coordinition  2.Free hand exercises. 3.Six exercises will be practiced in groups, supervised by teacher and student leaders.
strength. 2. Dynamic and Static stretching exercises for upper and lower body.  4th week - Free play.  Football Basket ball Badminton Self game  July  Ist week - General motor fitness drills.  2.Slowfast run/walk. 3.Free hand exercises/calisthenics.  2nd week - Mass PT for coordinition  1.Warming up 2.Free hand exercises. 3.Six exercises will be practiced in groups, supervised by teacher and student leaders.
2. Dynamic and Static stretching exercises for upper and lower body.  4th week - Free play.  Football Basket ball Badminton Self game  July  1st week - General motor fitness drills.  2. Slowfast run/walk. 3. Free hand exercises/calisthenics.  2nd week - Mass PT for coordinition  2. Free hand exercises. 3. Six exercises will be practiced in groups, supervised by teacher and student leaders.
stretching exercises for upper and lower body.  4th week - Free play.  Football Basket ball Badminton Self game  1.Running/jogging(15 mins) 2.Slowfast run/walk. 3.Free hand exercises/calisthenics.  2nd week Mass PT for coordinition  1.Warming up 2.Free hand exercises. 3.Six exercises will be practiced in groups, supervised by teacher and student leaders.
4th week - Free play.  Football Basket ball Badminton Self game  July  1st week - General motor fitness drills.  2.Slowfast run/walk. 3.Free hand exercises/calisthenics.  2nd week - Mass PT for coordinition  1.Warming up 2.Free hand exercises. 3.Six exercises will be practiced in groups, supervised by teacher and student leaders.
4th week - Free play.  Football Basket ball Badminton Self game  July  1st week - General motor fitness drills.  2.Slowfast run/walk. 3.Free hand exercises/calisthenics.  2nd week - Mass PT for coordinition  1.Warming up 2.Free hand exercises. 3.Six exercises will be practiced in groups, supervised by teacher and student leaders.
Basket ball Badminton Self game  July  1st week - General motor fitness drills.  2.Slowfast run/walk. 3.Free hand exercises/calisthenics.  2nd week - Mass PT for coordinition  1.Warming up 2.Free hand exercises. 3.Six exercises will be practiced in groups, supervised by teacher and student leaders.
Badminton Self game  July  1st week - General motor fitness drills.  2.Slowfast run/walk. 3.Free hand exercises/calisthenics.  2nd week - Mass PT for coordinition  1.Warming up 2.Free hand exercises. 3.Six exercises will be practiced in groups, supervised by teacher and student leaders.
July  1st week - General motor fitness drills.  2.Slowfast run/walk. 3.Free hand exercises/calisthenics.  2nd week - Mass PT for coordinition  1.Warming up 2.Free hand exercises. 3.Six exercises will be practiced in groups, supervised by teacher and student leaders.
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and student leaders.
1.Warming up
1. Walling up
2.Free hand exercises.
3 50 mts 80 mts sprints
3rd Week - with repetitions.
speed, agility.
Football
Basketball
Badminton
4th week - Self game
Free play
Tree play
August 1st week - Running, jumping and
General and shuffling
specific motor   drills on hurdles and
fitness drills. cones.
1.Standing in file
2nd week - formation
March past 2.Marching on the spot.
practice. 3. About turn practice.
4. Quarter turn right and
left.
2rd wook Taratin 1 1
3rd week - Teaching rules and
Indigenous regulations kho kho with
Indigenous regulations kho kho with game, kho game play.
Indigenous regulations kho kho with game, kho game play. kho Basketball
Indigenous regulations kho kho with game, kho game play. kho Basketball Football
Indigenous regulations kho kho with game, kho game play. kho Basketball Football

September	1st week -	Fitness test
September	Evaluation	Viva
	Evaluation	Viva
	2nd and 3rd	Term 1 Exams
	week - Term	Term i Exams
	1 exams4th	Football
	week - Free	Basketball
		Volleyball
	play	Badminton
October	1st and 2nd	1.Exercise 1 to 8.
	week	practice in one group
	Mass PT	supervised by student
	March past	leader and teacher.
	Waren past	2.Marching on the spot.
		3. Forward march.
		4.practice for arm
	3rd and 4th	actions.
	week	Football
		Basketball
	Free play	Badminton
		Dodgeball
November	RBCL	RBCL
December	RBCL	RBCL
January	1st week and	Winter break
,	2nd week	1.Shuttle Run.
	3rd week -	2.Push ups
	Group fitness	3.Sit ups
	drills	Football
	4th week -	Basketball
	Free play	Badminton
February	Evaluation	Fitness test
_		Viva