JAIN VIDYA MANDIR SR. SEC. SCHOOL, SONIPAT ANNUAL SYLLABUS PLANNER SESSION: 2024-25 12TH ENGLISH (301)

SR.	Month	Торіс	Art Integrated Projects	Methodology	Teaching/
No.					Instructional
					Aids
1		Ch-1. The Last	1 Group Discussion on	Brainstorming	Flamingo
-		Lesson	Political enslavement is a	Branscorring	Reader Vistas
			curse on any Nation as it		English practice
			denrives it of its identity'		test materials
					chalk-duster
			2. Find out about the		smartclass.
			following (You may go to		greenboard.
	April		the internet, interview		mindmap (self
			people, consult reference		made), over
			books or visit a library.)(a)		head Projector
			Linguistic human rights(b)	Demonstration	etc.
			Constitutional guarantees		
			for linguistic minorities in		
			India.		
			1. Being the head boy/girl of your school, write a notice informing students about the 'Anti-Child- Labour' day going to be	Reading	
			2. Prepare an appealing		
			poster on 'Child Labour'.		
		Ch-2. The Lost Spring	 Write an article on Dreams of the poor and their reality. 		
			1. Sing a song or recite a	Explanation	
			poem showing your love		
			and gratitude towards		
			your mother.		
			2. Draw a portrait of your		

		mother.		
		1. Prepare a model of a		
		clock representing		
		different motivation		
	Writing Skills- Short	words on each number.		
	Composition	2. Collect the details of		
	(Notice Writing)	cause of war.		
		1 Deine well in env		
		1. Doing well in any		
		struggle. Most of us are		
		very nervous to begin		
		with until gradually we		
		overcome our fears and		
		perform well. Write an		
	P-1 (My Mother at	essay of about five		
	Sixty Six)	paragraphs recounting		
		such an experience. Try to		
		recollect minute details of		
		your feelings the		
		encouragement you got		
		from others or the		
		criticism.		
	P-2 (Keening Quiet)	2 Are there any water		
		sports in India? Find out		
		about the areas or places		
		which are known for		
		water sports and prepare		
		catchy handouts for		
		them.		
	Ch-3. Deep Water			
2			Enquiny based	Elamingo
۷			Lectures	Reader, Vistas
		1. Prepare Rattrap using	,	English practice.
		waste material.		test materials,
		2. Prepare a comparative		chalk-duster

		analysis on the behaviour		smartclass,
	L-4 The Rattrap	of the three characters of		greenboard,
		the story who deal with		mindmap (self
May		the Rattrap seller.	Classroom	made), over
ividy			discussion	head Projector
			uiscussion,	etc.
		1 Workshoots on		
		Listoping task Crisis		Video on Save
		Management Creative		Tiger
		writing to unfold logical		
		thinking chills		
	Supplementary		Demonstration,	
	Supplementary	2. Jot down your medium	Explanation,	
	L-1: The Third Level	of escape from real		
		world.(Your pastime)		
		3. Prepare a collage on		
		postal stamps.	Reading,	
		1. Prepare a globe using		
		newspapers.		
		2. Speech: Humans are		
		the cause of the		
		destruction of the Earth.	Debate,	
		3. Draw a scene of		
		Antarctica Continent.		
		1. Framing and preparing	Daahla aa ah taa	
		invitation cards for	Problem solving,	
		different purposes:		
		a) Annual Day Celebration		
		invitation card.		
	L-3(Journey to The	b) Prenare an information		
	End of The Earth)	brochure highlighting the		
		main programs of your		
		function.	Reading	
			incouning	
		Letters:		
		1. Public Issues		
		2. Problem/		
	Writing Skills-	, Inconvenience		
	Chart Commonitier			
	Short Composition			

		(Invitation & Reply)	3. Job application+		
			Resume.		
		Long Composition			
		Letters			
3	June		Summer Bre	ak	
4	July	Ch-5. Indigo	 Prepare scrapbook on Gandhi's contribution in Indian Freedom Movement. Flow chart of the characteristics of a team leader. PowerPoint Presentation on the beauty of Nature. 	Debreifing, Debate,	Flamingo Reader, Vistas, English practice, test materials, chalk-duster smartclass, greenboard, mindmap (self made), over head Projector etc.
		P-3 A Thing of Beauty	 2. Recite the poem and make a video. 1. Critically analyse the importance of war. 2. Group discussion on importance of our helpers. 	Classroom discussion,	
		Supplementary Ch-4 The Enemy Unit Test-I		enquiry based Lecture, Values Classification, Brainstorming, Demonstration, Problem solving, Reading	
5		Ch-6. Poets and Pancakes	 Present Mono Acting related to the characters mentioned in the chapter. Write an article on the 	Debreifing, Debate,	Flamingo Reader, Vistas, English practice, test materials, chalk-duster smartclass,

head Projector etc.
Documentary on the services of Doctors and Nurses during War times.
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Flamingo Reader, Vistas, English practice, test materials, chalk-duster smartclass, greenboard, mindmap (self made), over head Projector etc. PPT presenting the synopsis Documentary on the success stories of physically challenged

			Current Topics	Explanation,	people.
		P-4. A Roadside Stand	 Make a collage of any powerful physically challenged person who created history. Group Discussion on Hero-worship is the most favourite pastime of most Indians. 	Reading,Debate, Problem solving,	
		Supplementary	2. Draw a sketch of your role model.		
		Ch-6. On the Face of It	3. Write diary entry about the experience and what a waste is day dreaming.	Reading	
		Ch-8. Going Places	Prepare a model of football ground.		
			1. Draw a beautiful sketch of tiger.		
			2 Quiz on poetic devices.		
			3. Present a mime on the condition of women in society.		
		P-6. Aunt Jennifer's Tigers			
8	November			Enquiry based	Flamingo Reader, Vistas, English practice.
				Lectures,	test materials, chalk-duster
				Classroom	smartclass,
					greenboard, mindmap (self
				Demonstration,	

				Explanation,	made), over
					head Projector
					etc.
				Reading, Debate,	
				Problem solving,	
				Reading	
9	December	Supplementary	1. Jot down any of your	Debreifing,	Documentary
			childhood experience in		on the great
		Ch-8. Memories of Childhood	the form of diary entry.		personalities
			2. Is 21st century still		against Social
			facing the stigma of	Debate,	injustice
			untouchability? Prepare a		injustice
			symposium on the same.		
			3. Draw the scene when		
			Zitkala-Sa was being		
			dragged out.		
			4 Prenare a skit on the	Classroom	
			scene which made Bama	discussion,	
			cheerful first and	enguiry based	
			disappointed later.	Lecture,	
			1. Write a Report on a	Values	
		Writing Skills-	recent disaster with	Classification,	
		Report	complimentary	Brainstorming,	
			newspaper clip.	Demonstration,	
			2. Present a special report	Problem solving,	
			in the form of newscast.	Reading	
10	January		Revision + Pre Board E	xamination	
			Practice for A	SL	
11	February	RECAPIT	ULATION and PREPARATION	I FOR FINAL ASSESSM	ENT
12	March		FINAL EXAMINA	TION	

Annual Planner -24-25

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Month	Week	Торіс	Sub- topics	Art-Integrated	Methodology	Teaching - Aids

APRIL	week-1,2 week-3,4 Week-1,2	Unit-1 Unit-2 Unit-3	Communication Skills Self Management Skills	Practice of Halasana, Pawanmuktasana Practice of Asanas	Explanation	Chalk Board , duster and Smart - class Chalk Board
	Week-3,4	Unit-4	Entrepreneurial		Explanation	duster and Smart - class
June			381113	SUMMER BRE	AK	
July	Week-1,2	Unit-5	Green Skills	Practice of Dhyana	Revise and	Chalk board ,
	Week-3 4	Revision	Green Skills	Mudra	Explanation	duster and Smart - class
Διισμετ	Week-3,4	(Part-B)	Introduction to	1) Yoga Etymology		Chalk board
August	WCCK I	Unit-1	Yoga and Yogic	definition. Aim.		duster and
			Practices-II	objective and		Smart - class
				misconception text.		
				2)Yoga Origin,		
				History and		
				Development.		
	Week-2			3)Rules and		
				Regulation to be		
				followed by yoga		
	Maak 2			practitioners.		
	vveek-5			4)Introduction to		
				voga (lanan Yoga		
				Bhakti.Yoga Karma.		
				Pataniali. Hatha.		
				5)Introduction to		
				yogic practices		
				(SukshamaVyayama,		
				Surya Namaskar and		
				Asanas).		
	Week-4					
September				REVISION	1	
October	Week-1	Unit-2	Introduction to	1)Introduction and		Chalk board ,
			Yoga Texts-II	study of patanjali		duster and
				roga sutra including		Smart – class
				selected Sutra		
	Week-2			2)Introduction and		
				study of Gheranda		
				Samhita.		
				3)Introduction of		
	Week-3			HataPradpika.		
				4) Introduction and study of Bhagavad		

	Week-4			Gita including memorization of selected Slokas.	
November	Week-1 Week-2	Unit-3	Yoga for health Promotion-II	 Brief introduction to human Body. 2) Role of Yoga for health promotion. 3)Yogic attitudes and practices. 4) Holistic approach of Yoga towards the health and diseases. Introduction Yoga 	Chalk board ,duster and Smart – class
	Week-3 Week-4			5) Introduction Yoga diet and its relevance and importance in Yoga Sadhana. 6) Dincharya and Ritucharya with respect of Yogic lifestyle.	
December January		Practicals and lab	Demonstration of skill competency in lab activites and Surya Namaskar		
February		Revision	Revision		

SUBJECT - Economics

Month	Topic	Subtopics	Methodology	Students	Instructional
				Activity	Aids
APRIL	Part A: Macro	*Meaning of	Problem		Chalk
	Economics	macroeconomics*Si	solving	*Draw a	Duster
		gnificance of	discussion	circular flow	Green board
Week 1	Ch.1Introduction	macroeconomics		of income in	Educomp
		*Classification of		2 sector	NCERT

		goods		Economy on	Textbooks
	Ch.2 –Some Basic	*Concept and		A4 size	
Week 2	concepts of Macro	components of		sheet	
		consumption		*Make a list	
		expenditure		of some	
		*Concept of		stock and	
		investment		flow	
		*Concept of		variables	
		depreciation, stock		*Make a	
		and flow		Map and	
		*Sectors of the		mention	
		Economy and		India s	
		Intersectoralflows		Territory	
				*Draw a pie	
Week 3	Ch. 3—Money	*C-C economy and		chart on	
		its problem		Occupationa	
		*Types of money			
		*Money supply and		on the eve	
		its measures		of	
	Part B:Indian			Independen	
	Economic			ce	
	Development				
		*Overall features of			
Week 4	Ch.1- IndianEconomy	Indian economy on			
	on the Eve of	the eve of			
	Independence	Independence			
		*State of			
		Agricultural			
		sector, industrial sect			
		or,Foreign trade			
		*Demographic			
		prome			
		* Positive and			
		Dritishars on Indian			
		Britisners on Indian			
		economy			
MAY		* Five vear plans in	Interactive	*Make a	
		India	lecture method	chart on	Chalk
Week 1	Ch. 2 Five Year Plans	*Goals of planning			Duster
	in India	in India		all the	Green board
		*Achievement of		five year	Educomp
Week 2	Ch.3.Agriculture	the goals		plans and	NCERT
,,	Industry and Trade	*Agriculture land		their	Textbook
	Lindon y und Trude	reforms		principal	- Childoon
		*Gains of Green		principal	
		revolution		objectives	
		*limitations of		* debate	
		Green revolution	Problem	on good	
		*industry, small	Solving and	and bad	

		scale industries	Case Study	impact of	
		*Silent features of	Method	the	
		growth strategy		strategy	
Week 3	Ch. 6 Banking	*Central Bank and		strategy	
		its functions			
		*Monetary policy		industriali	
		and its instruments		sation	
		*Credit creation		*Collect	
		process by		some	
		commercial banks		pictures	
	Cl. 2 National	*Concent of		of ancient	
Week 4	Un-5 National	*Concept of		and	
WEEK 4		domestic and		modern	
	Aggregates	national income		form of	
		*Gross and net			
		domestic products		money	
		*Aggregates related		and paste	
		to national income		it on a	
		*Nominal and real		chart	
		GDP			
		*GDP and welfare			
			T. d		
			Interactive		
			Explanation		
			Method		
JUNE	SUMMER BREAK				
				*Group	
IULY				discussio	
JOLI				n on	
Wook 1	Ch (Economia	*Mooning of		advantaga	
WCCK I	Reforms Since 1001			auvallage	
	Kelofilis Since 1991	economic			
		reforms		disadvant	
		*Privatisation		ages of	
		*Globalisation*L		Globalisat	
		iberalisation		ion	
		*Critical			
		appraisal of NEP			
		*Concept of			
		demonetisation			
		and GST			
				Draw	
				break	Chalk
				JUCAK	Duster

Week 2 Week 3	Ch.7Aggregate Demand and Aggregate Supply and Related Concepts Ch. 8 Short Run Equilibrium Output	*Aggregate demand and its components *Consumption function ,Saving function *APC,MPC,APS ,MPS *AD -AS Approach *Saving- InvestmentAppro ach *Derivation	Problem Solvingand Discussion Method	even point on a A4 sheet *Draw the diagrams of under employm ent equilibriu m and over full employm ent equilibriu	Green board Educomp NCERT Textbook
Week 4	UT 1	and consumption curve *InvestmentMult iplier		 In on a chart * make a flowchart of instrumen ts of monetary and fiscal policy 	
AUG.			Discussion	*Collect	Green board
Week 1 Week 2	Ch.6 Human capital Formation in India Ch.7 Rural Development	*Sources of human capital formation *Significance and problems of human capital formation *Rural credit and agricultural marketing *Role of cooperative agriculture diversification*Eme rging challenges ,organic farming	Interactive lecture Method Problem Solving Method	some pictures of channels of alternativ e marketing and make a collage	Educomp NCERT Textbook
Week 3	Ch. 9 Problem of Excess and Deficient Demand	*Causes and consequences of excess and deficient demand	Problem Solving Method		

		*Measures to			
		correct excess and			
		deficient demand-			
		government			
		spending taxes and			
Week 1	Ch 1 Mathada af	Money supply			
WEEK 4	Cn.4 Methods of	* value added			
	Calculating	method			
	National Income	*Problem of			
		double			
		counting*Classifi			
		cation of factor			
		income			
		*Precautions			
		regarding income			
		method			
		expenditure			
		method .Concept			
		of			
		GNP.GDP.NDP			
		at MP and FC			
		GDP and			
		welfare			
		wenare			
SEPT.	REVISION AND	HALF YEARLY			
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		EXAMS			
					Challs
OCT.			Problem		Cilaik Duster
		*labour supply	solving		Green board
Week 1	CH – Employment	labour force,	Discussion		Educomp
		work force			NCERT
		*Rate of			Textbook
		participation			
		*Occupational			
		structure			
		*Casualisation			
		and	Interactive		
		informalisation	lecture Method		
		of workforce			
				*QuizOn	
	Ch.10 Government	*Objectives of		different	
Week 2	Budget	government budget		types of	
		*structure of budget		taxes	
		*Budget		lands	
		deficit*Balanced			
		and unbalanced			

		budget			
Week 3 Week 4	Ch. 11 Foreign Exchange Rate Ch.10 Environment and Sustainable Development	*Flexible and fixed exchange rate *Managed floating *Components of demand and supply for foreign exchange *Environment and significance of environment*Sus tainable development and strategies, global warming	Problem solving Discussion Interactive Explanation Method	Group discussio n on Gold Standard and Bretton wood System of Exchang rate	
NOV					
Unit test					
Week 2	Ch.12 Balance of Payment	*Components of BOP account *equilibrium and discipline *Balance and Imbalance in BOP*Significance of BOP	Interactive Explanation and Case Study Method		

Week 3 Week 4 DEC	Ch.11Comparative Development Experience of India and it's Neighbour Revision	*Path of development of India China and Pakistan *Experience and achievements of India, China and Pakistan*Developm ent Strategies and appraisal and conclusion	Story Telling Methodand Interactive lecture Method	*Compar e the growth strategies of India, China and Pakistan and make a chart of their strategie	Green board Educomp NCERT Textbook
	REVISION	FINAL EXAM			
JAN	WINTER BREAK				
FEB	REVISION AND				

SUBJECT - INFORMATICS PRACTICES

MONT	WEEK	TOPIC	SUBTOPIC	ACTIVITIES	METHODOLOGIES	INSTRUCTIONAL/TEAC
Н						HING AIDS
April	WEEK -I	Data Handling using PANDAS-I	Introduction to Python Libraries, Series Data structure (creating series , series object attributes, additional functionality ,seri es objects attributes, operations on series Object etc.	Students will practice in Lab, they will use different practical programs related to Series understand the concepts , Creating Series objectsand perform different operations on objects etc.	 Illustration Method Discussion Method Brain storming Method 	Black board , chalk , duster, pointer, computer system, Python software Course book
			DataFrame		Method	

Ň	WEEK –II	Data Handling using PANDAS-I	(creating , displaying ,attrib utes, accessing, modifying rows columns, renaming columns	practice in Lab, they will use different practical programs related to DataFrameattrib utes	 Demonstratio n Method Brain storming Method 	
	WEEK -IIV	Data Handling using PANDAS-I Data Handling using PANDAS-I	Pandas Series Vs Numpyndarray, Pandas Vs Series Object, Pandas Vs dictionary, arithmetic operations on Dataframe Importing and exporting data between CSV files and DataFrames	 and different methods Accessing data from dataframes (including slicing) Modifying and deleting data in data frame etc. a. Team Based Time Bound Exercise using different topics. b. Using arithmetic operation on data frame Students will do practical to import and export data using CSV and DataFrame 	 Brain Storming Discussion Method Illustration Method 	

May	WEEK -I	Data Handling	Sorting a dataframe.		•	Lecture cum Illustration	White board, marker.duster.
		using Pandas-	Altering index,			Method	pointer,computer
		П	other dataframe		•	Demonstratio	system, Python
			operations			n wethod	software,course book
				Students			
				will do			
				practical related to			
			Lino chart	different			
	WEEK	Plotting Data		tonics			
	-11	using	Different	topics			
		MatplotlibPy	attributes				
		plot		1 Time			
				Bound			
				Team			
				Based			
				Exercise related to			
				different			
				topics and			
				other			
				2 Plotting			
			Par chart	different			
	WEEK		Histogram	plots using			
	-111		nistogram	different			
			Different	piot methods			
			attributes	methods			
	WEEK		Customizing the				
	-IV		plot with				
			' different				
			attributes				
June				Summer Br	eak		
July	WEEK	Querying and	Database	1. Students will	•	Lecture cum	Black board , chalk ,
	-	SQL functions	concepts(Databas	they will use		illustration Method	duster, pointer,
			e, Relational	different	•	Discussion	computer system,
			RDRMS Repotite	commands in		Method	ualabase sollware,
			of RDRMS	their queries			Course book
			Relation /Table	with the help			
			key, Primary key,	like:			
			Candidate key,				
			Alternate				
			Key), Classificatio	2. Creating			
			n of SQL	tables.			

	WEEK -II WEEK	Querying and SQL functions	statements, MYSQL Elements, Creating & Accessing database, creating tables, inserting data into tables, function in MYSQL (String Functions : (concat, length,substr, instr, trim, ltrim, rtrim, left ,right)	 Display those records from employee table whose name starts with 'A' alphabet. Display Annual salary of employees who are in department 20. Add one more column Address in employee table. Arrange the information in table in descending order by their name. etc. 		
	WEEK -IV		Numeric Functions : (round,truncate,s qrt, mod, pow, sign) , Date & Time functions Making simple queries using Alter Table, Select, Describe, Where, Order By, Between, In, Like, Update, Delete etc.			
Augus t	WEEK -I	Querying using SQL (Group By), and SET operations	Aggregate functions (Max, Min, Avg,Sum,Count) Aggregate functions and		 Lecture cum Illustration Method Demonstratio n method 	White board, marker,duster, pointer,computer system, database software,course book

			null values				
	WEEK -II		Group by , Having, Displaying data from multiple tables,	 a. Team Based Time Bound Exercise using different topics. b. Using group functions c. Differentiate scalar and group functions d. Using set operations 			
	WEEK -III WEEK -IV	Querying using SQL (Group By) , and SET operations	Cartesian product or cross join of tables, Equi join, set operations(Union , Intersection,Min us)	Team Based Time Bound Exercise using different topics using set operations			
Sept.				Revision & Half yearly	/ Examir	nation	L
Oct.	WEEK -I	Internet and Web	Introduction, types of networks, network deives,	 Find the IP address of at least five computers in School. Find the name of Internet Service Provider of your School. 	1.	Interactive Lecture Method Demonstratio n Method	White board, marker,duster, pointer,computer system , internet explore software, course book White board, marker,duster,

	WEEK -IV		applications of internet, website, web page, web server, hosting of a website, browser,chat ,VO IP	4. Perform browser settings		
Nov.	WEEK -I WEEK -II WEEK -III WEEK -IV	Societal impacts	Introduction, digital footprints, digital society and netizen Creative commons, cyber crime Indian information technology Act E-waste : Hazards and management, Impact on health	 Search online pictures Create a power point presentatio n using some pics, and videos in it and give reference of used contents in it (i.e. search from internet) Create a chart or power point presentatio n on CC 	 Lecture cum Illustration Method Brain Storming 	White board, marker, duster, Computer system, internet, flash cards ,pointer, course book
Dec.	WEEK -I WEEK -II	Data Protection (Syllabus completion)	Threats to data Data protection solutions	Time Bound Team Based activity related to different topics	 Lecture Illustration Method Brain Storming 	White board, marker, duster, pointer, Internet , course book
Jan.		Revision & Pre	-boardxams.			
Feb.				Practical	S	

MONT WEEK TOPIC SUB TOPICS ACTIVITIES **METHODOLOGIES INSTRUCTIONAL**/ Н **TEACHING AIDS** Week Corresponden Write business letters April Introduction, Computer system • Lecture cum -1 ce Illustration with MS-Word, Business using Method Correspondenc Different styles of Discussion White board, e, Styles of Method marker, pointer, typewriting Typewriting **Brain Storming** letters(Indente Letters. duster, d style, Block course book style /fully blocked style, Semi-Block style, Modified Block style, Hanging style ,Official Lecture cum Correspondenc Discussion e, Office Method Memorandum, Demonstration Office Order, Method **Demi-Official** Typewrite a fair copy of letter(DO), the Manuscript on Office Note. computer by Week-Manuscripts Lecture cum incorporating the Ш Discussion correction. Method Introduction, Illustration Meaning, Proof Computer Method correction system with MS Prepare salary sheet by **Brain Storming** symbols, word, White using procedure of board, marker, preparing a fair Sum, min and max pointer, duster, Excel copy of the functions. flash cards Weekmanuscript Ш Save and print the same course book sheet Introduction, Starting Excel, Components of Excel window, workbook and Computer worksheet, system, MS-(Opening, Excel. White saving and board, marker,

SUBJECT - TYPOGRAPHY AND COMPUTER APPLICATION

			printing a				pointer, duster
			workbook),				
			navigating the				
			worksheet.				
			Editing excel :				
			Selecting cells				
			and ranges,				
			editing data,				
			modifying a				
			worksheet,				
			Adding				
			worksheets,				
			rows and				
		Excel	Columns, Resizing rows	Prepare a report relate	e		
			and columns	to			
	Week-		moving and				
	IV		copying cells.	Sales of salesman			
			freeze pane,	using different			
			Find and	functions and			
			Replace data,				
			Auto fill.				
			Formatting				
			Worksheets:				
			rormatting				
			Formatting	display pictorial			
			rows and	representation of			
			columns.	same.		Lecture Method Discussion	
Mav			Formatting			 Discussion Method 	
- /			text,		•	Demonstration	
			Formatting			Method	
	Week-		worksheets				
	I		using Styles				
			Toolbar, Auto				
			formatting,				
			AutoCorrect,				
			nainter				
			panner.				
			Formulas and				
			Functions:				
			Formulas,	Search different			
			Operators,	topics on internet			
			Creating a				
		Internet	formula,				
		mernet	AutoSum,				
		Search	Relative,				
			Absolute and Mixed				
	Week-		Referencing				
		1	iterenening,	1	L		

			Functions, Spell Checking. Using Charts: Components of a Chart, Chart types, creating a Chart. Search Engine, Types of Search Engine, Finding information through search engine, Different Search Engines, E-Commerce, Types of E- Commerce, E- Business			Computer ,intern et, White board , marker, pointer, duster
May	Week- III Week- IV	Email	E-mail Management: Importance of E-mail, E-mail Services, Opening an email account using Gmail. Composing an email, Sending an email with attachment, Formatting text. E-mail actions- Reading an email, replying an email, forwarding an email, printing an email and	Create your E- mail account On Gmail . Send an e-mail to your friend with at least two attachments. Download attachment from your inbox. etc	 Lecture cum Discussion Method Demonstration Method 	Computer ,intern et, White board , marker, pointer, duster

			deleting an				
			email. Adding a				
			signature.				
			Creating				
			folders/ labels				
			for archiving				
			emails				
			cinais.				
June				Summer			
				Break			
July	Week-	Power Point	Power Point	Prepare a PPT's on	•	Demonstration	Computer
	1		Presentation:	different topics		Method	system , MS-
			Starting	(Digital India,	•	Lecture cum	Power Point.
			PowerPoint,	Demonetization, Save		Discussion	White board ,
			Creating a	Earth, Mahatma		Method	marker, pointer,
			presentation,	Gandhi. Missile Man			duster
			Opening an	Dr. APJ Abdul Kalam .			
			existing	Smart city etc.)			
			Viewing				
			slides				
			NormalView				
			Slide Sorter				
			View Notes				
			Page, Slide				
			Show.				
			Working with				
			slides- Adding				
			a slide,				
			deleting a				
			slide, Adding				
			text, moving a				
			text box,				
	Week-		format text.				
	п						
			Adding		•	Lecture cum	
			WordArt,			Illustration	
			Format			Method	
			WordArt.		•	Discussion	
			Adding			Method	
			snapes, image				
			and clipart.				
			Adding theme				
			changing the				
			background				
			Formatting				
			nresentation				
			using slide				
			master				

		Objects and			
		Animation:			
		Creating			
		Custom			
		Animation			
		Effects for			
		objects, Modify			
		Animation			
		effects, Create			
		a Slide			
		Transition,			
		Change the			
		order of the			
	Computer	slide, Slide	•	Lecture cum	
	computer	Show Options.	•	Illustration	
	Virus	Rehearse		Method	
		Timing	•	Discussion	
				Method	
Wook-					
WCCK					
		Computer			
		Virus,			
		Computer virus			
		versus			
		Biological virus,			
		Computer virus			
		classification-			
		Boot sector			
		virus,			
		Companion			
		virus, E-mail			
		virus, Logic			
		Bomb, Macro			
Week-		virus, Cross-site			
IV		scripting virus,			
		Worm, Trojan			
		Horse.			
		Effects of			
		Effects of			
		computer virus,			
		the			
		vulnerability of			
		operating			

			systems to			
			virus,			
			protection			
			from virus and			
			use of popular			
			antivirus			
			software.			
A	Maal	Communicatio	Cassian 1	1 Dave an attraction of		
Aug.	vveeк-		Session 1-	1. Demonstration of	Lecture cum	white board ,
	1	II SKIIIS-IV	Active Listening	the key aspects of	Method	dustor facial
			Session 2 -Parts		Discussion	expression chart
			of Speech	becoming active	Method	
				listener	Role Play	
					Method	
				Telephone Game		
				2. Preparing posters		
	Week-				Lecture cum	White board
	П		Session 3 -	of steps for active	Illustration	marker, pointer,
			Writing	listening	Method	duster, flash
			Sentences	0	Discussion	cards
					Method	
		Green Skills-IV		1 listing of green		
				iohs		
	Week-			1003		
	III			and preparation of		
			Session 1 -			
			Green Jobs	posters on green job		
				profiles		
	Week-			2. Prepare posters on		
	IV			green jobs		
			Session 2 -	0.00.1000		
			Importance of	3. Motivate students		
			Green Jobs	to plant a tree.		
				4 Motivate students		
				to huv energy		
				efficient products etc		
Sep.		Half Yearly Exar	ns			
Oct	Wook		Session 1	1 Demonstration		White board
000	I VVEEK-		Getting Startad		 Lecture cum Discussion 	marker pointer
	'		with	and practice on	Method	duster computer,
			VVILII		Demonstration	system open
					Method	system, open

	Spreadsheet	the following:	office
Week- II	Session 2 - Performing Basic Operations in a Spreadsheet	 Introduction to the spreadsheet application Listing the spreadsheet 	
Week- III	Session 3 - Working with Data and Formatting Text Session 4 - Advanced Features in Spreadsheet	applications Creating a new worksheet Opening the workbook and enter text Resizing fonts and styles 	
Week- IV	Session 5 - Presentation Software Session 6 - Opening, Closing, Saving and Printing a Presentation 7.	 Copying and move the cell data Sorting and Filter the data Applying elementary 	
	Session 7 - Working with Slides and Text in a Presentation Session 8 Advanced Features used in Presentation	formulas and functions > Saving the spreadsheet in various formats 2. Demonstration and practice on the following: Listing the Software.	
		sottware,	

				packages for		
				presentation,		
				Explaining the		
				features of		
				presentation,		
				Creating a new		
				Presentation,		
				Adding a slide to		
				Presentation.,		
				Deleting a slide,		
				Entering and		
				edit text,		
				Formatting text,		
				Inserting clipart		
				and images,		
				Sliding layout,		
Nov.	Week-	Self	Session 1 -	1. Group discussion	Lecture cum	White board ,
	1	Management	Positive	on identifying	Method	marker, pointer, duster
		Skills –IV	Attitude	needs and desire	Method	
				2. Discussion on		
	Maak			sources of		
	і П		Session 2 - Result	motivation and		
			Orientation	inspiration		
				3. Demonstrate the		
	Week-		Session 3-	knowledge of		
	111		Section 4	different		
	Week- IV		Session 4	personality types		

Dec.	Week-	Entrepreneuri	Session 1-	1. Administering self	•	Lecture cum	White board ,
	I	al Skills-IV	Entrepreneursh	rating		IllustrationMeth	marker, pointer,
			ip and Entrepreneur	questionnaire and	•	oa Discussion Method	duster,flash cards
			Session 2	score responses	•	Brain Storming	
			Barriers to Entrepreneursh	on each of the			
			ip	competencies			
	Week-		Session 3	2. Collect small			
		Attitudes	story/ anecdote of				
			Session 4	prominent			
		(Syllabus completion)	Entrepreneurial Competencies	successful			
				entrepreneurs			
				3. Identify			
				entrepreneurial			
				competencies			
				reflected in each			
				story and connect			
				it to the definition			
				of behaviorual			
				competencies			
				4. Preparation of			
				competencies			
				profile of students			
				5. Games and			
				exercises on			
				changing			
				entrepreneurial			
				behavior and			
				development of			
				competencies for			

			enhancing self-		
			confidence,		
			problem solving,		
			goal setting,		
			information		
			seeking, team		
			building and		
			creativity		
Jan.	Revisions + Pre-Board Exams.				
Feb.	CBSE Practical + CBSE BOARD Exams				

SUBJECT - Economics

Month	Торіс	Subtopics	Methodolog	Students	Instructional
			у	Activity	Aids
			-	-	
APRIL	Part A: Macro	*Meaning of	Problem		Chalk
	Economics	macroeconomics*S	solving	*Draw a	Duster
		ignificance of	discussion	circular flow	Green board
Week 1	Ch.1Introduction	macroeconomics		of income in	Educomp
		*Classification of		2 sector	NCERT
		goods		Economy on	Textbooks
	Ch.2 –Some Basic	*Concept and		A4 size	
Week 2	concepts of Macro	components of		sheet	
		consumption		*Make a list	
		expenditure		of some	
		*Concept of		stock and	
		investment		flow	
		*Concept of		variables	
		depreciation, stock		*Make a	
		and flow		Map and	
		*Sectors of the		India's	
		Economy and		Domostic	
		Intersectoralflows		Territory	
				*Draw a nie	
Week 3	Ch. 3—Money	*C-C economy and		chart on	
		its problem		Occupationa	
		*Types of money		Structure	
		*Money supply and		on the eve	
		its measures		of	
	Part B:Indian			Independen	
	Economic			ce	
	Development				

Week 4	Ch.1- IndianEconomy on the Eve of Independence	*Overall features of Indian economy on the eve of Independence *State of Agricultural sector,Industrialsect or,Foreign trade *Demographic profile * Positive and negative impacts of Britishers on Indian economy			
MAY		* Five year plans in	Interactive	*Make a	CI 11
Week 1	Ch. 2 Five Year Plans in India	India *Goals of planning in India *Achievement of	lecture method	chart on all the five year	Chalk Duster Green board Educomp
Week 2	Ch.3.Agriculture Industry and Trade	the goals *Agriculture land reforms *Gains of Green revolution *limitations of Green revolution *industry, small scale industries *Silent features of growth strategy	Problem Solving and Case Study Method	plans and their principal objective s * debate on good and bad impact of	NCERT Textbook
Week 3	Ch. 6 Banking	*Central Bank and its functions *Monetary policy and its instruments *Credit creation process by commercial banks		the strategy of industrial isation *Collect some	
Week 4	Ch–3 National Income and Related Aggregates	*Concept of national income domestic and national income *Gross and net domestic products *Aggregates related to national income *Nominal and real GDP *GDP and welfare		of ancient and modern form of money and paste it on a chart	
			Interactive Explanation		

			Method		
JUNE	SUMMER DREAK				
				*Group	
JULY				discussio	
				n on	
Week 1	Ch-4Economic Reforms Since 1001	*Meaning of		advantag	
	Kelofilis Slice 1991	economic		es and	
		reforms		disadvant	
		*Privatisation		ages of	
		Globalisation		Globalisa	
		Liberalisation		tion	
		*Critical			
		appraisal of NEP			
		*Concept of			
		demonetisation			
		and GST			
Week 2		*Aggregate	Problem	Draw	Chalk
	Ch.7Aggregate	demand and its	Solvingand	break	Duster
	Aggregate Supply	components	Method	even	Green board Educomp
	and Related Concepts	*Consumption	Method	point on a	NCERT
	1	function ,Saving		A4 sheet	Textbook
		function		*Draw	
		*APC,MPC,APS		the	
		,MPS		diagrams	
				of under	
		*AD -AS		employm	
Week 3	Ch. 8 Short Run	Approach		ent	
	Equilibrium Output	*Saving-		equilibriu	
		InvestmentAppr		m and	
		oach *Derivation		over full	
		of saving curve		employm	
		and consumption		ent	
		curve		equilibriu	
		[*] InvestmentMult		m on a	
		ipiier		cnart	
				make a	
				flowchart	
W /1 4				OI	
week 4	UT 1			instrumen	
				ts of	
				monetary	

				and fiscal	
				policy	
AUG.			Discussion	*Collect	Green board
X 7 1 1		*0 01	Method	some	Educomp
week I	Cn.o Human capital	*Sources of numan		pictures	NCER I Textbook
	I officiation in fildia	*Significance and	Interactive	of	TEADOOR
		problems of human	lecture Method	channels	
		capital formation		of	
		*Dunal and it and		alternativ	
Week 2	Ch 7 Rural	*Rural credit and		e	
WEEK 2	Development	marketing	Problem	marketin	
	1	*Role of	Solving	g and	
		cooperative	Method	make a	
		agriculture		collage	
		erging			
		challenges ,organic			
		farming			
		*Causes and			
Week 3	Ch. 9 Problem of	consequences of	Problem		
	Excess and Deficient	excess and deficient	Solving		
	Demand	demand	Method		
		*Measures to			
		deficient demand-			
		government			
		spending taxes and			
XX7 1 4		money supply			
Week 4	Ch.4 Methods of	*Value added			
		method			
	National Income	*Problem of			
		double			
		counting Classif			
		income			
		*Precautions			
		regarding			
		income method			
		expenditure			
		method .Concept			
		of			
		GNP,GDP,NDP			
		at MP and FC			
		GDP and			
		welfare			

SEPT.	REVISION AND	HALF YEARLY			
		EXAMS			
OCT.	CH – Employment	*labour supply labour force,	Problem solving	*QuizOn different	Chalk
Week 1		work force *Rate of participation *Occupational structure *Casualisation	Discussion	types of taxes	Green board Educomp NCERT Textbook
	Ch.10	and informalisation of workforce	Interactive lecture Method	Group discussio n on Gold Standard	
Week 2	Government Budget	*Objectives of government budget *structure of budget *Budget deficit*Balanced and unbalanced budget		and Bretton wood System of Exchang rate	
Week 3	Ch. 11 Foreign Exchange Rate	*Flexible and fixed exchange rate *Managed floating *Components of demand and supply for foreign	Problem solving Discussion		
Week 4	Ch.10 Environment and Sustainable Development	exchange *Environment and significance	Interactive		
		of environment*Su stainable development and strategies, global warming	Method		
NOV					

Unit test Week 2	Ch.12 Balance of Payment	*Components of BOP account *equilibrium and discipline *Balance and Imbalance in BOP*Significance of BOP	Interactive Explanation and Case Study Method		
Week 3 Week 4	Ch.11Comparative Development Experience of India and it's Neighbour	*Path of development of India China and Pakistan *Experience and achievements of India, China and Pakistan*Developm ent Strategies and appraisal and conclusion	Story Telling Methodand Interactive lecture Method	*Compar e the growth strategies of India, China and Pakistan and make a chart of their strategie	Green board Educomp NCERT Textbook
	Revision	EINAL EYAM			
DEC JAN FEB	WINTER BREAK REVISION AND	FINAL EAAIVI			

SUBJECT- Mathematics

MONTH	ΤΟΡΙϹ	SUB-TOPICS	ACTIVITY	METHOD	TEACHING
				OLOGY	ID/
					INSTRUCTI
					NAL AID
APRIL	RELATION	Types of relation: reflexive,	Using thread	explanatio	Chalk
WEEK 1	AND	symmetric ,transitive and	/wool	n by	board,dust
AND 2	FUNCTION	equivalence relations. one to	1.To demonstrate	diagram,	er,smart
		one and onto function ,	a function which	learning	class
			is not one-one but	by doing,	
			is onto	problem	
			2. show	solving	
		Definition, range ,domain	equivalence		
		,principal value branch .graph	relations		
		of trigonometric function	3.one-one		
	INVERSE		4 .onto		
	TRIGONOMET				
	RIC		Use		

FUNCTION sketch/thread/gra ph 1.To draw the graph of sin inverse x using graph of sin x 2. cos ⁻¹ . show unit circle graphically		
APRIL WEEK 3 AND 4MATRICESConcept, notation, order, equality, types of matrices. transpose, symmetric, skew symmetric matrices operation on matrices: addition, multiplication invertible matrices1.To relate the matrices with real life.2. design with the help of row (column) 3.diagram to show different type of matrix	problem solving ,Explanati on.	Chalk board, duster, smart class.
Determinant of a square matrix, properties, minors, cofactors and application of determinants in finding area of a triangle, adjoint and inverse, consistency, inconsistency, no. of solutions of linear equation on in two variable using inverseMake a ppt/ diagram to show determinant and its properties		
Continuity and differentiability chain rule, derivatives of inverse trigonometric, implicit functions ,concept of exponential and logarithmic function ,second order derivative, theorem .		
MAYCONTINUIT-Y AND1. show what is continuityWEEK 1DIFFERENTIA BILITYthrough representation of any curve		

	S OF	increasing/decreasing	To show the	approach,	board,
	DERIVATIVES	functions, maxima and	concept of	Discovery	Duster,
JULY		minima, simple problems	decreasing and	, Method	Smart
		basic principles and	increasing		Class
		understanding of the subject	function through		
		as well as real life situation	data analysis		
			, /CURVE		
			2. To show the		
			concept of		
			absolute max. and		
			minimum through		
			graphics		
		Integration as inverse	3. To construct		
		process of differentiation.	an open box of		
		integration by substitution,	max. volume		
WEEK 1	Integrals	different forms of	from a given		
WEEK 2	_	integration, definite, basic	rectangular sheet		
		properties of definite	by cutting equal		
		integrals and evaluation of	square from each		
		definite integrals,	corner		
		fundamental theorem of	Make a beautiful		
		calculus (without proof).	chart of all the		
			formulas of		
			integrations		
		UNIT TEST			
JULY	APPLICATION	UNIT TEST Application in finding the		Explanatio	Chalk
JULY WEEK 3	APPLICATION S OF THE	UNIT TEST Application in finding the area under simple curves,	1.Draw beautiful	Explanatio n, Brain	Chalk board,
JULY WEEK 3 WEEK 4	APPLICATION S OF THE INTEGRALS	UNIT TEST Application in finding the area under simple curves, especially lines,	1.Draw beautiful diagram of	Explanatio n, Brain storming	Chalk board, Duster,
JULY WEEK 3 WEEK 4	APPLICATION S OF THE INTEGRALS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in	1.Draw beautiful diagram of parabola and line	Explanatio n, Brain storming	Chalk board, Duster, Smart
JULY WEEK 3 WEEK 4	APPLICATION S OF THE INTEGRALS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition	1.Draw beautiful diagram of parabola and line 2.Ellipse and line	Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4	APPLICATION S OF THE INTEGRALS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition	1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area	Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4	APPLICATION S OF THE INTEGRALS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general	1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve	Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST	APPLICATION S OF THE INTEGRALS DIFFERENTIA	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a	1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve 3.2 circle and shaded region	Explanatio n, Brain storming Explanatio	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation	1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve 3.2 circle and shaded region that contain	Explanatio n, Brain storming Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation formation of differential equation by method of	1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve 3.2 circle and shaded region that contain common area	Explanatio n, Brain storming Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation formation of differential equation by method of sepration solution of	1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve 3.2 circle and shaded region that contain common area through equation	Explanatio n, Brain storming Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation formation of differential equation by method of sepration ,solution of homogenious differential	1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve 3.2 circle and shaded region that contain common area through equation of circle	Explanatio n, Brain storming Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation formation of differential equation by method of sepration ,solution of homogenious differential equation _solution of linear	1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve 3.2 circle and shaded region that contain common area through equation of circle	Explanatio n, Brain storming Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation formation of differential equation by method of sepration ,solution of homogenious differential equation j solution of linear differential equation	1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve 3.2 circle and shaded region that contain common area through equation of circle	Explanatio n, Brain storming Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation formation of differential equation by method of sepration ,solution of homogenious differential equation ,solution of linear differential equation dy/dx+py=q and	1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve 3.2 circle and shaded region that contain common area through equation of circle	Explanatio n, Brain storming Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation formation of differential equation by method of sepration ,solution of homogenious differential equation j solution of linear differential equation dy/dx+py=q and dx/dy+px=q	1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve 3.2 circle and shaded region that contain common area through equation of circle	Explanatio n, Brain storming Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation formation of differential equation by method of sepration ,solution of homogenious differential equation guition of linear differential equation dy/dx+py=q and dx/dy+px=q	1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve 3.2 circle and shaded region that contain common area through equation of circle	Explanatio n, Brain storming Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation formation of differential equation by method of sepration ,solution of homogenious differential equation j solution of homogenious differential equation dy/dx+py=q and dx/dy+px=q	 1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve 3.2 circle and shaded region that contain common area through equation of circle If Yearly Exams	Explanatio n, Brain storming Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2 SEPTEM- BER	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation formation of differential equation by method of sepration ,solution of homogenious differential equation ,solution of linear differential equation dy/dx+py=q and dx/dy+px=q	 Draw beautiful diagram of parabola and line Ellipse and line to show area under curve 2 circle and shaded region that contain common area through equation of circle 	Explanatio n, Brain storming Explanatio n, Brain storming	Chalk board, Duster, Smart Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2 SEPTEM- BER OCTOBE	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation formation of differential equation by method of sepration ,solution of homogenious differential equation ,solution of linear differential equation dy/dx+py=q and dx/dy+px=q Revision and Ha	 Draw beautiful diagram of parabola and line Ellipse and line to show area under curve 2 circle and shaded region that contain common area through equation of circle 	Explanatio n, Brain storming Explanatio n, Brain storming Discovery	Chalk board, Duster, Smart Class Class
JULY WEEK 3 WEEK 4 AUGUST WEEK 1 WEEK 2 SEPTEM- BER OCTOBE R	APPLICATION S OF THE INTEGRALS DIFFERENTIA L EQUATIONS	UNIT TEST Application in finding the area under simple curves, especially lines, circles/parabola /ellipse (in standard form only), definition, order definition ,order and degree, general and particular solutions of a differential equation formation of differential equation by method of sepration ,solution of homogenious differential equation ,solution of linear differential equation dy/dx+py=q and dx/dy+px=q Revision and Ha Vectors and scalers, magnitude ,directrion of	 1.Draw beautiful diagram of parabola and line 2.Ellipse and line to show area under curve 3.2 circle and shaded region that contain common area through equation of circle If Yearly Exams 	Explanatio n, Brain storming Explanatio n, Brain storming Discovery Method,	Chalk board, Duster, Smart Class Chalk board,

		-			
WEEK 2		cosines ,types of vectors,component ,addition and subtraction of vectors,properties of dot product and cross profduct,application of scalar product , vector product, geometetrical interpretation	geometric ally that vector c×(a+b)=c× a+c×b	Solving,	Smart Class, Models
		Direction cosines and	1. Find the		
WFFK 3	Three- dimensional	direction ratio of a line	shortest	Explanatio	
WEEK 4	Geometry	equation and vector equation	between	n,	
		of line ,shortest distance,angle between two lines,skew lines.	two skew lines	Problem Solving	
NOVEM-	Linear	Introduction, related	Project : To	Project,	Chalk
BER WEEK 1	programming	terminology such as	minimize the cost	Discussion	board, Dustor
WEEK 1 WEEK 2 WEEK 3 WEEK 4	PROBALITY	constraints,objective function, optimization, different types of L.P ,mathematical formulations of l.p, graphical method of solution for problem in two variable ,feasible and in feasible solutions, optimal feasible solutions Conditional probability, multiplication theorem, indepent event, total	of food ,meeting the dietary requirements of staple food of the adolescent student of your school	, Problem Solving,	Duster, Smart Class
		probability, bayes theorem			
DECEM- BER	PROBABILITY	Random variable and its probability distribution, mean of random variable.	 To explain the computation of conditional probability of a given event A, when event B has already occurred, through an example of throwing a pair of dice. Show outcomes of coin ,dice, 	Problem Solving, Explanatio n	Chalk board, Duster, Smart Class

	cards through
	diagram or real
	objects
JANUARY	Pre-board 1
FEBRU-	REVISION AND ANNUAL EXAMS
ARY	
MARCH	ANNUAL EXAMS

Subject: -Psychology

Month	Week	Торіс	Sub -Topic	Teaching Aids
April	Week -1	Variations in Psychological Attributes The topics in this unit are: 1	1. Introduction 2. Individual Differences in Human Functioning 3. Assessment of Psychological Attributes.	Blackboard, Chalk , Duster, Course Book
		Psvchology?		
	Week - 2		 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. 	
	Week -3		6. Individual Differences in Intelligence 7. Culture and Intelligence 8. Emotional Intelligence	
	Week -4		9. Special Abilities: Aptitude: Nature and Measurement 10.Creativity	

May	Week - 1	Self and Personality	1. Introduction	Blackboard,
			2. Self and Personality	Chalk ,
				Duster, Course Book
	Week -2		3. Concept of Self	
			4. Cognitive and Behavioural	
			aspects of Self Psychology.	
	Week -3		5. Culture and Self	
			6. Concept of Personality	
	Week -4		7. Major Approaches to the	
			Study of Personality	
			 • Type Approaches 	
			• Trait Approaches	
			• • Psychodynamic	
			Approach and Post	
			Freudian	
			Approaches	
			Behavioural Approach	
			Cultural Approach	
			 R Accossment of Personality 	
			o. Assessment of Personality	
			Droigstive Techniques	
			Projective Techniques Behavioural Analysis	
lune			Benavioural Analysis	
June			Summer break	
July	Week-1	Meeting Life	1. Introduction	Blackboard,
		Challenges	2. Nature, Types and Sources	Chaik , Duster
		_	of Stress.	Course Book
	Week-2		3. Effects of Stress on	
			Psychological Functioning and	
			Health	
			Stress and Health	
			General Adaptation	
			Syndrome	
			Stress and Immune	
			Svetom	
	Maal: 2		LITESLYTE	
	vveek -3		4. Coping with Stress	
			Techniques	

	Week -4		 5. Promoting Positive Health and Well-being Life Skills Positive Health 	
August	Week-1	Psychological	1. Introduction	Blackboard,
		Disorders	2 Concepts of Almonyality	Duster,
			2. Concepts of Abnormality	Course Book
			and Esychological Disorders	
			Historical Background	
	Week-2		3. Classification of	
			Psychological Disorders	
			4. Factors Underlying	
			Abnormal Behaviour	
	Week-3		5. Major Psychological	
			Disorders	
			Anxiety Disorders	
			Obsessive-Compulsive and	
			Related Disorders	
			Irauma-and Stressor-	
			· Sometic Symptom and	
			Related Disorders	
			Dissociative disorders	
			Depressive Disorder	
			Bipolar and Related	
			Disorders	
	Week-4			
			Schizophrenia Spectrum and	
			Other Psychotic	
			Disorders	
			Neurodevelopmental	
			Disorders	
			Disruptive, Impulse-Control	
			and Conduct Disorders	
			Disorders	
			Substance Related and	
			Addictive Disorders.	
September	Revision		Half Yearly	

November Week-4 Approaches psychotherapy Chalk, Duster, Course Book Week-4 Approaches psychotherapy Chalk, Duster, Course Book Week-4 Attitude and Social Cognition Humanistic-Existential Therapy Week-4 Attitude and Social Cognition Introduction Week-4 Attitude Formation and Change Attitude Formation and Change Week-4 Social Influence and Group Processes Attitude Change November Week -1 Social Influence and Group Processes 1 Social Influence and Group Processes	October	Week- 1	Therapeutic	1. Nature and Process of	Blackboard,
November Week-1 Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Course Book			Approaches	psychotherapy	Chalk ,
November Week-1 Social Influence and Group Processes 2. Types of Therapies Image: Single Construction of the singl				Therapeutic relationship	Course Book
November Week -1 Social Influence and Group Processes 5 Scial Influence and Group Processes 5 Scial Influence and Group Processes 6 Behaviour Therapy				2. Types of Therapies	
November Week -1 Social Influence and Group Processes Social Influence and Group Processes 1 Social Influence and Group Processes Sates and the series of the seri				Behaviour Therapy	
November Week -1 Social Influence and Group Processes Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Chalk, Duster, Course Book November Week -1 Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Chalk, Duster, Course Book				 Cognitive Therapy 	
November Week -1 Social Influence and Group Processes Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Course Book November Week -1 Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Chalk, Duster, Course Book				 Humanistic-Existential 	
Image: series of the series				Therapy	
Week-2 Factors contributing to healing in Psychotherapy - Ethics in Psychotherapy 3. Rehabilitation of the Mentally III Week -3 Attitude and Social Cognition 1. Introduction 2. Explaining Social Behaviour 3. Nature and Components of Attitudes Week-4 4. Attitude Formation and Change Week-4 - Attitude Formation · Attitude Formation - Attitude Formation <tr< th=""><th></th><th></th><th></th><th>Alternative Therapies</th><th></th></tr<>				Alternative Therapies	
November Week -1 Social Influence and Group Processes 5. Prejudice. Blackboard, Chalk, Duster, Course Book November Week -1 Social Influence and Group Processes 1. Social Influence and Group Processes Blackboard, Chalk, Duster, Course Book		Week-2		Factors contributing to	
November Week -1 Social Influence and Group Processes 1. Social Influence and Group Processes 1. Sechabilitation of the Mentally III November Week -1 Social Influence and Group Processes 1. Introduction 2. Explaining Social Behaviour November Week -1 Social Influence and Group Processes 1. Introduction 2. Explaining Social Behaviour November Week -1 Social Influence and Group Processes 1. Introduction 3. Nature and Components of Attitude Formation and Change November Week -1 Social Influence and Group Processes 1. Social Influence and Group Processes 1. Social Influence and Group Processes				healing in Psychotherapy	
November Week -1 Social Influence and Social Cognition 1. Introduction of the Mentally III Week -3 Attitude and Social Cognition 2. Explaining Social Behaviour 3. Nature and Components of Attitudes 3. Nature and Components of Attitudes Week -4 4. Attitude Formation and Change · Attitude Formation · Attitude Formation · Attitude Formation · Attitude Formation · Attitude Formation · Attitude Change · Attitude Formation · Attitude Formation · Attitude Formation · Attitude Formation · Attitude Formation · Attitude Formation · Attitude Change · Attitude Formation · Attitude Formation · Attitude Formation · Prejudice. · Attitude Formatio				• Ethics in Psychotherapy	
Week -3 Attitude and Social Cognition 1. Introduction 2. Explaining Social Behaviour 3. Nature and Components of Attitudes Week-4 4. Attitude Formation and Change Week-4 - Attitude Formation Week-4 - Attitude Formation Veek-4 - Attitude Formation Social Influence and Group Processes 5. Prejudice and Discrimination November Week -1 Social Influence and Group Processes				5. Renabilitation of the	
November Week -1 Social Influence and Group 1 Social Influence and Group Blackboard, Chalk, Duster, Course Book November Week -1 Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Chalk, Duster, Course Book		Week -3	Attitude and Social	1 Introduction	
November Week -1 Social Influence and Group Processes 2. Explaining Social Behaviour 2. Explaining Social Behaviour 3. Nature and Components of Attitudes 3. Nature and Components of Attitudes 4. Attitude Formation and Change • Attitude Formation • Attitude Formation • Attitude Formation • Attitude Formation • Attitude Formation • Attitude Change • Attitude Behaviour Relationship • Attitude - Behaviour Relationship 5. Prejudice and Discrimination 6. Strategies for Handling Prejudice. November Week -1 Social Influence and Group Processes The topics in this unit are: Blackboard, Chalk , Duster, Course Book			Cognition		
November Week -1 Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Chalk, Duster, Course Book				2. Explaining Social Behaviour	
Image Attitudes Attitude Formation and Change Week-4 4. Attitude Formation - Attitude Formation - - Attitude Formation - - Attitude Change - - S. Prejudice and Discrimination - - November Week -1 Social Influence and Group Processes 1 November Week -1 Social Influence and Group Processes 1 The topics in this unit are: Blackboard, Chalk, Duster, Course Book				3. Nature and Components of	
Week-4 4. Attitude Formation and Change - · Attitude Formation - · Attitude Change - · Attitude Change - · Attitude Behaviour Relationship - S. Prejudice and Discrimination - November Week -1 Social Influence and Group Processes November Week -1 Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Chalk, Duster, Course Book				Attitudes	
November Week -1 Social Influence and Group Processes 1 Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Chalk, Duster, Course Book		Week-4		4. Attitude Formation and	
Image: NovemberWeek -1Social Influence and Group Processes1 Social Influence and ProcessesBlackboard, Chalk, Duster, Course Book				Change	
· Attitude Change· Attitude-Behaviour Relationship· Attitude-Behaviour Relationship· Attitude-Behaviour Relationship· S. Prejudice and Discrimination· S. Prejudice and Discrimination· Social Influence and Group Processes· Social Influence and Group Processes· Social Influence and Group Process				Attitude Formation	
· Attitude-Behaviour RelationshipRelationship5. Prejudice and Discrimination0. Strategies for Handling Prejudice.NovemberWeek -1Social Influence and Group Processes1 Social Influence and Group Processes1 Social Influence and Group ProcessesBlackboard, Chalk , Duster, Course Book				Attitude Change	
November Week -1 Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Chalk, Duster, Course Book Notember Week -1 Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Chalk, Duster, Course Book				Attitude-Behaviour	
Image: Second				Relationship	
Discrimination Discrimination Observation 6. Strategies for Handling Prejudice. 9 November Week -1 Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Chalk, Duster, Course Book				5. Prejudice and	
Image: NovemberWeek -1Social Influence and Group Processes1 Social Influence and Group ProcessesBlackboard, Chalk , Duster, Course BookNovemberWeek -1Social Influence and Group Processes1 Social Influence and Group ProcessesBlackboard, Chalk , Duster, Course Book					
November Week -1 Social Influence and Group Processes 1 Social Influence and Group Processes Blackboard, Chalk , Duster, Course Book				6. Strategies for Handling Prejudice.	
Group Processes Processes Chalk , Duster, The topics in this unit are: Course Book	November	Week -1	Social Influence and	1 Social Influence and Group	Blackboard,
The topics in this unit are:			Group Processes	Processes	Chalk , Duster
				The topics in this unit are:	Course Book

			1. Introduction	
			2. Nature and Formation of Groups	
W	Veek-2		3. Type of Groups	
			4. Influence of Group on Individual Behaviour	
			Social Loafing	
			Group Polarisation.	
l v	Veek-3	Practical	5.Practical 30 Marks	
			A. Development of case	
			profile: Using appropriate methods	
			like interview, observation &	
			psychological tests.	
N N	Veek-4		B. Test administration:	
			Students are required to	
			administer and interpret five	
			psychological tests related to	
			attributes like	
			intelligence, aptitude,	
			attitude, personality, etc	
DECEMBER R to MARCH	Revision	Preboard	Annual examination	

Biology (044)

Months	Working Days	Lesson No & Name	Activity
April	Week-1 To Week-4	Introduction of the syllabus and practicals Sexual reproduction in flowering plant	Study pollen germination by temporary slide Flowers adapted to pollination by different agencies

	XX7 1 1 A		T1
May	week-1,2	3.Human Reproduction	Identification of stages of gamete development. and Meiosis in onion bud cell through permanent slide
	Week-3,4	4.Reproductive health	Identification of stages of gamete development. and T.S. blastula
June	Break		
Inly	Week- 1,2	5. Principles of Inheritance and Variation	Mendelian inheritance using seeds of different colour/size of pea plant
	Week-5	6.Molecular Basis of inheritance	nce To study pedigree charts of genetic traits
	Week-4	7.Evolution	
August	Week-1,2	8. Human Health and disease	Identification of common disease causing organisms. Exercise on controlled pollination
	Week-2,3	10.Microbes in human welfare	Pollen germination on stigma through permanent slide
September	Half yearly		

	Week1,2		To study
			homologous
			and
			analogous
October		11.Principles and process of biotechnology	organs
	Weel-2,3	12.Application of biotechnology in health and agriculture	Isolation of DNA
	Week-1,2		Study of
		13 Organisms and environment	mitosis in
		15.61guilishis and environment	onion root
N 7 N			tip
November	Week-3,4	14.Ecosystems	Model specimen to show symbolic association
Novembor	Week-1,2	14.Ecosystems (contd)	Study of different plant populations density by quadrat method
INOVEINDEI	Week-3,4	15.Biodiversity and its conservation	Study of different plant populations frequency by quadrat method
December		Revision	Investigatory Project
January		Pre-boards	
February		Practicals	
March		Final practicals	

MONTH	Week	ΤΟΡΙϹ	SUBTOPIC	ACTIVITIES	METHODOLOGI	TEACHING
					ES	AIDS
		SOLUTIONS	Types of solutions,	Make a	Discussion	Chalk,
April	1 st		expression of	poster	 Explanation 	duster,
	week		concentration of	showing	 observation 	green
			solutions of solids in	importance		board,
			liquids,	of osmosis		model,
			solubility of gases in			smart
			liquids,	Make an		board
			solid solutions,	assignment		
			Raoult's law	on		
				functioning		
	2 nd		colligative properties -	of RO		
	week		relative lowering of			
			vapour pressure,	Make an		
			elevation of boiling	assignment		
			point, depression of	on		
			freezing point, osmotic	functioning		
			pressure,	of RO		
			determination of			
			molecular masses	Draw a table		
			using colligative	depicting		
			properties,	different		
			abnormal molecular	types of		
			mass, Van't Hoff	solution		
			factor.			
A 11	ord			<u> </u>	D	
April	3'"	ELECTROCHEM	Redox reactions,	Draw a	 Discussion Evaluation 	Chalk,
	weeĸ	ISTRY	EIVIF OF a Cell,	diagram of	 Explanation observation 	duster,
			standard electrode	an		green
			potential,	electrochemi		board,
			its application to	cal cell on		model,
				chart paper		board
			Polation botwoon			board
			Gibbs energy change	Draw a		
			and FME of a cell	diagram of		
			conductance in	wheatstone		
			electrolytic solutions	bridge		
			specific and molar	principle on		
			conductivity	A4 size sheet		
	4 th					
	week		variations of	Make an		
			conductivity with	assignment		
			concentration,	on lead		
			Kohlrausch's Law,	storage		
			electrolysis and law of	batteries		
			electrolysis			
			(elementary idea),	Draw		
			dry cell-electrolytic	different		

			cells and Galvanic cells, lead accumulator, fuel cells, corrosion	types of of cells used by us also classify them as electrochemi cal or electrolytic cell.			
May	1 st week 2 nd week 3 rd week 4 th week	CHEMICAL KINETICS	Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; molecularity of a reaction, rate law and specific rate constant, integrated rate equations half-life (only for zero and first order reactions), concept of collision theory (elementary	Make a report on the role of catalyst in industries. Diagrammati cally show the factors affecting rate of reaction Graphically show the role of activation energy in a reaction on a chart. List out the	•	Discussion Explanation observation	Chalk, duster, green board, model, smart board
	WEEK		idea, no mathematical treatment), activation energy, Arrhenius equation	formulas used in this chapter on an A4 size sheet.			
July	1 st week 2 nd week	d and f BLOCK ELEMENT	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 radii, colour, catalytic property, magnetic	Make a report on why transition elements act as good catalysts. Make a figure showing chemical reactions of the lanthanoids.	•	Discussion Explanation observation	Chalk, duster, green board, model, smart board

			nronerties interstitial	W/rite			
			compounds allow	applications			
			formation	of d and f			
			ionnation,	block			
	o rd		proparation and	olomonts on			
	J		preparation and proportios of K2Cr2O7	A4 choot			
	WEEK		and KMnO4	A4 SHEEL			
			dilu Nivili04.	Maka a graph			
				wake a graph			
			Electronic	on A4 sheet			
			configuration,	snowing			
			oxidation states,	trends in			
			chemical reactivity	m.pt. of			
			and lanthanoid	transition			
			contraction and its	elements			
			consequences.				
	4 th		Actinoids - Electronic				
	week		configuration.				
			oxidation states and				
			comparison with				
			lanthanoids				
August	1 st	COORDINATIO	Coordination	Draw the	•	Discussion	Chalk,
0	week	Ν	compounds -	shapes of	•	Explanation	duster,
		COMPOUNDS	Introduction, ligands,	different	•	observation	green
			coordination number,	coordination			board,
			colour, magnetic	polyhedron			model.
			properties and	A4 size sheet.			smart
			shapes. IUPAC				board
			nomenclature of	List out the			
			mononuclear	definition of			
			coordination	all the terms			
			compounds. Bonding.	pertaining to			
			Werner's theory.	coordination			
				compounds			
	2 nd		VBT, and CET:	on a chart.			
	– week		structure and				
	Week		stereoisomerism	Show			
			importance of	geometrical			
			coordination	isomerism on			
			compounds (in	a piece of			
			qualitative analysis.	chart taking			
			extraction of metals	any example.			
			and biological	, ,			
			system).	one piece of			
			. ,	chart show d			
				orbital			
				splitting in an			
				octahedral			
				crystal field			
				and a			

				tetrahedral			
				crystal field			
August	3 rd	HALOALKANES	Haloalkanes:	Write all the	•	Discussion	Chalk
	week	AND	Nomenclature. nature	name	•	Explanation	duster.
		HALOARENES	of C–X bond, physical	reactions in	•	observation	green
			and chemical	this chapter			board,
			properties, optical	on a chart			model,
			rotation mechanism	paper.			smart
			of substitution				board
			reactions.	On a chart			
			Haloarenes: Nature	paper show			
			of C–X bond,	nucleophilic			
			substitution reactions	substitution			
			(Directive influence of	reactions in			
			halogen in	halo alkane			
			monosubstituted	and			
			compounds only).	haloarene.			
	4 th		Uses and	make an			
	week		environmental effects	assignment			
			of - dichloromethane,	on			
			trichloromethane,	stereochemic			
			tetrachloromethane,	al aspects of			
			iodoform, freons,	nucleophilic			
			DDT.	substitution			
				reactions.			
				Make a			
				report on			
				polyhalogen			
				compounds			
				and their			
				significance.			
October	1 st	ALCOHOLS,	Alcohols:	Write all the	•	Discussion	Chalk,
	week	PHENOLS AND	Nomenclature,	name	•	Explanation	duster,
		ETHERS	methods of	reactions in	•	Observation	green
			preparation, physical	the chapter			board, model
			nroportios (of primary	napor			mouer,
			alcohols only)	paper.			board
			identification of	Show the			Source
			primary, secondary	mechanism			
			and tertiary alcohols.	of acid			
			, mechanism of	catalysed			
			dehydration, uses	hydration of			
			with special reference	alkenes for			
			to methanol and	the			
			ethanol.	preparation			
				of alcohols			
	2 nd		Phenols:	on an A4 size	1		

	week		Nomenclature,	sheet.			
			methods of				
			preparation, physical	Draw the			
			and chemical	structures of			
			properties, acidic	methanol			
			nature of phenol,	phenol and			
			electrophillic	methoxymet			
			substitution reactions,	hane on an			
			uses of phenols.	A4 size sheet			
			Ethers:				
			Nomenclature,	Show			
			methods of	dehydration			
			preparation, physical	of alcohols			
			and chemical	on an A4 size			
			properties, uses	sheet			
October	3 rd	ALDEHYDES,	Aldehydes and	Write the	•	Discussion	Chalk,
	week	KETONES AND	Ketones:	IUPAC names	•	Explanation	duster,
		CARBOXYLIC	Nomenclature, nature	of at least 10	•	observation	green
		ACIDS	of carbonyl group,	aldehydes			board,
			methods of	ketones and			model,
			preparation, physical	carboxylic			smart
			and chemical	acids on a			board
			properties,	chart paper.			
			mechanism of				
			nucleophilic addition,	Write all the			
			reactivity of alpha	name			
			hydrogen in	reactions			
			aldehydes, uses.	involved in			
	ath			this chapter			
	4		Carboxylic Acids:	on a piece of			
	weeĸ		Nomenciature, acidic	chart.			
			nature, methods of	Duous aukital			
			preparation, physical	Draw orbital			
			properties; uses	the			
				corbonyl on			
				sheet			
				Sheet			
				write various			
				methods			
				involved for			
				the			
				preparation			
				of aldehvdes			
				, and ketones			
				on a chart			
				paper.			
Novemb	1 st	AMINES	Amines:	Write various	•	Discussion	Chalk,

					1		
er	week		Nomenclature,	methods	•	Explanation	duster,
			classification,	involved for	•	observation	green
			structure, methods of	the			board,
			preparation,	preparation			model,
				of amines on			smart
	2 nd		physical and chemical	a piece of			board
	week		properties, uses,	chart			
			identification of				
			nrimary secondary	Make a			
			and tertiary amines	report on the			
			and tertiary annites.	structure			
	ard		Diazanium caltau	basisity			
	3 [.] ~		Diazonium saits:				
	week		Preparation, chemical	relationship			
			reactions	of amines			
	4 th		importance in	Assignment			
	week		synthetic organic	on			
			chemistry	electrophilic			
				substitution			
				of amines.			
				Make a			
				report on			
				importance			
				of diazonium			
				salts in			
				synthesis of			
				aromatic			
				compounds			
Decemb	1 st	BIOMOLECULE	Carbohydrates -	Make a	•	Discussion	Chalk,
er	week	S	, Classification (aldoses	assignment	•	Explanation	duster.
•		•	and ketoses),	on structure	•	observation	green
			monosaccahrides	of glucose			board
			(glucose and fructose),	of Blacose			model
			D-L configuration	Draw the			smart
			oligosaccharides	structure of			board
			(sucrose, lactose,	starch			Juaru
			maltose),				
				centriose on a			
	and		polysaccharides (starch,	chart			
	Ζ		cellulose, glycogen);				
	week		Importance of	илаке а			
			carbohydrates.	report on			
				globular			
				proteins			
			Proteins -Elementary				
	3 rd		idea of - amino acids,	on a chart			
	week		peptide bond,	write some			
			polypeptides, proteins,	important			
			su ucture or proteins -	vitamins			
			primary, secondary,	their sources			

		tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins enzymes.	and their deficiency diseases.	
4 th we	th 'eek	Hormones - Elementary idea excluding structure. Vitamins - Classification and functions. Nucleic Acids: DNA and RNA.		

SUBJECT - PHYSICS

MONTH	ТОРІС	SUB-TOPIC	ACTIVITY	METHODOLOGY	TEACHING-AIDS
APRIL	ELECTRIC CHARGES AND FIELDS	Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside	To find the value of v for different values of u in case of a concave mirror and to find the focal length.	EXPLANATION DISCUSSION OBSERVATION	CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD
	ELECTROSTATIC POTENTIAL AND CAPACITANCES	Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two- point charges and of electric dipole in an electrostatic field.			CHALK,DUSTER, GREEN BOARD,MODEL, SMART BOARD
MAY	ELECTROSTATIC POTENTIAL AND CAPACITANCES	free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only).			

MONTH	TOPIC	SUB-TOPIC	ACTIVITY	METHODOLOGY	TEACHING-AIDS
MAY	CURRENT	Electric current, flow of	То	EXPLANATION	CHALK,DUSTER,
	ELECTRICITY	electric charges in a	determine	DISCUSSION	GREEN
		metallic conductor, drift	resistivity of	OBSERVATION	BOARD, MODEL,
		velocity, mobility and their	two / three	EXPERIMENTATION	SMART BOARD
		relation with electric	wires by		
		current;	plotting a		
JUNE			graph for		
		SUMMER VACATIONS	potential		
			difference		
		Ohm's law V-l	versus		
		characteristics (linear and	current.		
		non-linear) electrical			
		energy and nower			
JULY	CURRENT	electrical resistivity and			
	ELECTRICITY	conductivity temperature			
		dependence of resistance	To find		
		Internal resistance of a	resistance of		
		cell potential difference	a given wire		
		and emf of a cell	/ standard		
		combination of cells in	resistor		
		series and in parallel	using metre		
		Kirchhoff's rules.	bridge.		
		Wheatstone bridge.	~		
		Concept of magnetic field.			
		Oersted's experiment. Biot			CHALK, DUSTER,
		- Savart law and its			GREEN
	MOVING CHARGES	application to current			BOARD, MODEL,
	AND MAGNETISM	carrying circular loop.	To verify the		SIVIART BUARD
		Ampere's law and its	laws of		
		applications to infinitely	combination		
		long straight wire. Straight	(series) of		
		solenoid (only qualitative	resistances		
		treatment), force on a	using a		
		moving charge in uniform	metre		
		magnetic and electric	bridge.		
		fields.			
			OR		
		Force on a current-			
		carrying conductor in a	To verify the		
		uniform magnetic field,	laws of		
		force between two parallel	combination		
		current-carrying	(parallel) of		
		conductors-definition of	resistances		
		ampere, torque	using a		
		experienced by a current	metre		
		loop in uniform magnetic	bridge		
		field; Current loop as a			
		magnetic dipole and its			
		magnetic dipole moment,			
		moving coil galvanometer-			
		its current sensitivity and			
		conversion to ammeter			
		and voltmeter.			

MONTH	TOPIC	SUB-TOPIC	ACTIVITY	METHODOLOGY	TEACHING-AIDS
AUGUST	MAGNETISM AND	Bar magnet, bar magnet as		EXPLANATION	CHALK,DUSTER,
	MATTER	an equivalent solenoid		DISCUSSION	GREEN
		(qualitative treatment		OBSERVATION	BOARD, MODEL,
		only), magnetic field		EXPERIMENTATION	SMART BOARD
		Intensity due to a magnetic			
		its axis and perpendicular			
		to its axis (qualitative			
		treatment only), torque on			
		a magnetic dipole (bar			
		magnet) in a uniform			
		magnetic field (qualitative			
		treatment only), magnetic			
		field lines.			
		Magnetic properties of			
		ferro - magnetic			
		substances with examples.			
		Magnetization of			
		materials, effect of			
		temperature on magnetic		EXPLANATION	
		properties.		DISCUSSION	CHALK,DUSTER,
				OBSERVATION	GREEN
	Nederion				BOARD,MODEL,
		Electromagnetic induction:			SMART BOARD
		Electromagnetic induction,			
		EMF and current: Lenz's			
		Law, Self and mutual			
		induction. Alternating			
		currents, peak and RMS			
	CONNEINT	value of alternating			
		current/voltage; reactance			
		sincuit (phasors only)			
		resonance nower in AC			
		circuits, power factor,			
		wattless current.			
		AC generator,			
		Transformer.			
SEPTEMBER	ELECTROMAGNETIC				
	WAVES	Alternating currents, peak			
		and KIVIS Value Of			
		current/voltage: reactance			
		and impedance: LCR series			
		circuit (phasors only),			
		resonance, power in AC			
		circuits, power factor,			
		wattless current.			
		AC generator,			
SEPTEMBER	HALF YEARLY	mansionner.			
	EXAMINATIONS				

MONTH	TOPIC	SUB-TOPIC	ACTIVITY	METHODOLOGY	TEACHING-AIDS
OCTOBER	RAY OPTICS AND	Reflection of light,	To find the		
	OPTICAL	spherical mirrors, mirror	focal length	EXPLANATION	
	INSTRUMENTS	formula, refraction of light,	of a convex	DISCUSSION	CHALK,DUSTER,
		total internal reflection	lens by	OBSERVATION	GREEN
		and optical fibers,	plotting	EXPERIMENTATION	BOARD,MODEL,
		refraction at spherical	graphs		SMART BOARD
		surfaces, lenses, thin lens	between u		
		formula, lens maker's	and <i>v</i> or		
		formula, magnification,			
		power of a lens,	between		
		combination of thin lenses	<i>1/u</i> and <i>1/v</i> .		
		in contact, refraction of			
		light through a prism.			
		Ontical instruments			
		Optical instruments:			
		astronomical telescones			
		(reflecting and refracting)			
		and their magnifying			
		powers.			
	WAVE OPTICS				
			То		
		Wave front and Huygen's	determine		
		principle, reflection and	angle of		
		refraction of plane wave at	minimum		
		a plane surface using wave	deviation		
		fronts. Proof of laws of	for a given		
		reflection and refraction	prism by		
		Interference Young's	graph		
		double slit experiment and	graph		
		expression for fringe width			
		(No derivation final			
		expression only), coherent			
		sources and sustained			
		interference of light,			
		diffraction due to a single			
		slit, width of central			
		maxima (qualitative			
		treatment only).			
	DUAL NATURE OF	Dual nature of radiation,		EXPLANATION	
NOVEMBER	RADIATIONS AND	Photoelectric effect, Hertz		DISCUSSION	CHALK,DUSTER,
	MATTER	and Lenard's observations;	To find the	OBSERVATION	GREEN
		Einstein's photoelectric	retractive		BOARD,MODEL,
		light Experimental study	index of a		SMART BOARD
		of photoelectric effect			
		Matter waves-wave nature	and plane		
		of particles, de-Broglie	mirro r		
		relation.			

MONTH	ΤΟΡΙϹ	SUB-TOPIC	ACTIVITY	METHODOLOGY	TEACHING- AIDS
DECEMBER	ATOMS AND NUCLEI	Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom, Expression for radius of nth possible orbit, velocity and energy of electron in his orbit, of hydrogen line spectra (qualitative treatment only). Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.		EXPLANATION DISCUSSION OBSERVATION	
JANUARY	ELECTRONIC DEVICES PRE- BOARD EXAM	Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode -diode as a rectifier.	To draw the I-V characteristic curve for a p- n junction diode in forward and reverse bias.	EXPLANATION DISCUSSION OBSERVATION EXPERIMENTATION	