ANNUAL CURRICULUM AND PEDAGOGICAL PLAN (ACPP)

CLASS : XI NAME OF THE TEACHER: Bhavika Narang SUBJECT : Economics

Learning Objectives:

- Understanding of the most basic economic concepts and development of economic reasoning which the learners can apply in the day-to-day life as citizens, workers, and consumers.
- Analyzing how supply and demand determine prices and quantities in various markets.
- Studying how individuals make choices based on preferences, budget constraints and utility maximization.
- Investigating different types of market structures and their implications for prices and output.
- Equipment with basic tools of economics and statistics to analyze economic issues This is pertinent for even those who may not pursue this course beyond senior secondary stage.
- Development of understanding that there can be more than one view on any economic issue and necessary skills to argue logically and with reasoning.

Month	Chapter Name	Sub-topics	Periods	Learning Outcomes	Teaching Learning Strategies/Activi ties	Resources	Assessment Tools (a) for Identifying Learning Gaps (b) for determining understanding level	Interdisciplinary Approach
April	Statistics for economics: Introduction of statistics	What is Economics? Meaning, scope, functions and importance of statistics in Economics	10	Enables the students to understand the relationship between economics and statistics. They will be able to establish the importance of	Lecture method, class discussion and real life examples.	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessments and feedback tools	Mind maps, quizzes, MCQs, short – answer test	Economics + Math: data understanding Economics + Political science: policy making

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				economic activities. Students can relate the statistics with the process of consumption, production and distribution. They will be able to chalk out how statistics is related to economics, business planning, economic planning etc.				
April	Statistics for economics: Collection of data	Sources of data - primary and secondary; how basic data is collected with concepts of Sampling; methods of collecting	10	Students will be able to understand the purpose of collection of the data. They will be able to give examples to differentiate between primary and secondary	Class discussion and lecture method, preparation of questionnaire, real-life examples	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessments and feedback tools	Class test, MCQs	Economics + English: Question framing Economics + Sociology: field work

		data;		data.				
		some important sources of secondary data: Census of India and National Sample Survey Organisatio n		Students will understand how to collect the data for statistical study. They will be able to know the techniques of sampling. Chalk out the important sources of secondary data. Discuss the various techniques of campling				
May	Statistics for	Meaning	08	Enable the	Interactive	Textbooks	Quizzes, Give students	Economics +
	economics: Organisation of data	and types of variables; Frequency Distribution.		students to differentiate between quantitative and qualitative classification. The students will be able to construct a frequency distribution	examples of organizing height and age, lecture method, Questions and worksheets for practicing questions	Digital platforms Interactive tools Class activities Worksheets Assessments and feedback tools	data to organsize, class test	Maths: Numerical classification Economics + Computer science: Data entry

		1	1		1	1		1
Мау	Statistics for economics: Presentation of data, tabular, diagrammatic	Tabular Presentatio n and Diagramma tic Presentatio n of Data: (i) Geometric forms (bar diagrams and pie diagrams),	08	table. Enable to differentiate between discrete and continuous series They will also be able to construct the bivariate and univariate frequency distribution table Enable the students to chalk out various types of presentations They will be able to draw tables Differentiate between different types of diagrams. Enable them to construct graphs.	Lecture method, draw diagrams manually from given data,	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessments and feedback tools	Create a chart/diagram using real data, class test for tabular and diagrammatic presentation.	Economics + Art: design of diagrams Economics + IT: design of graphs

Note: Instructions for the Project work will be given in the class and the guidelines will be given to students to complete the project work during summer vacations.

July	Statistics for economics: Graphic presentation	Frequency diagrams (histogram, polygon and Ogive) Arithmetic line graphs (time series graph).	04	Students will be able to differentiate between different types of graphs. They will be able to present the presentations on graph.	Lecture method, students presentation of different graphs, overlay frequency polygon over histogram, practice questions	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessments and feedback tools	Class test, draw and interpret given data sets, extra practice questions through assignment.	Economics + Maths: graph plotting
July	Statistics for economics: Measure of central tendency (Mean)	Arithmetic mean	15	Understand the meaning of averages. Students will be able to explain how a single number represents the whole set of data. Enable the students to find out averages numerically in different types of series. They will be able to	Solving numerical problems step by step, use real life data sets to compute measures,	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessments and feedback tools	Worksheet, quiz, extra numerical questions through assignment, diagnostic test	Mathematics: numerical operations

				differentiate between different types of averages. Enable the students to explain properties of AM with the help of examples.				
July	Statistics for economics: Measure of central tendency (Median and Mode)	Median and Mode	15	Enable the students to understand the concept of partition values and its relevance in statistics. Enable the students to do numerical on Median and Mode Locate median and mode diagrammatical ly.	Solving numerical problems step by step, use real life data sets to compute measures,	Textbooks Digital platforms Interactive tools Class activities Worksheets assessments and feedback tools	Worksheet, quiz, extra numerical questions through assignment, diagnostic test	Mathematics: numerical operations
August	Microeconomi cs: Introduction	Meaning of microecono mics and	08	Enable the students to differentiate	Brainstorming, case study discussion, hands	Textbooks Digital platforms	Analyse incorrectly drawn PPC, Diagnostic tests,	Geography: use of land resources illustration

		macroecono mics; positive and normative economics What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of Production Possibility Frontier and Opportunity Cost		between micro and macro economics Students will be able to give examples of positive and normative economics Explain the problems of: What to produce, How to produce, For whom to produce in various economic systems Construct PPC and explain the curve and points on PPC	on plotting of PPCs, lecture method	Interactive tools Class activities Worksheets Assessments and feedback tools	assignments, short scenario based question to guess economic problem involved, worksheets	Mathematics: coordinate geometry to understand slopes and draw PPC Environmental Science: Scarcity of natural resources and choices made
August	Microeconomi cs: Consumer Equilibrium (utility approach)	Consumer's equilibrium - meaning of Utility, Marginal Utility, Law of Diminishing Marginal Utility,	10	Differentiate between different types of utility Enable the students to calculate TU and MU They will be	Lecture method, class discussions, making of graphs and diagrams	Textbooks Digital platforms Interactive tools Class activities	Problem solving worksheets, diagnostic quiz, MCQs, assignments.	Mathematics: Use of graphs, slopes, tangents, equations Psychology: Understanding behavior through rational choice

		conditions of consumer's equilibrium using marginal utility analysis.		able to calculate TU and MU Enable them to establish the relationship between TU and MU				theory
				Students will be able to tell the conditions for consumers equilibrium for 1 and 2 commodity case				
				Enable them to numerically calculate consumers equilibrium in 1 and 2 commodity case				
August	Microeconomi cs: Consumer equilibrium (Indifference curve approach)	Indifference curve analysis of consumer's equilibrium- the consumer's budget (budget set and budget	06	Enable students to define budget line, budget set, budget equation Student will be able to tell the importance of consumers	Lecture method, class discussions, making of graphs and diagrams	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessments and feedback tools	Problem solving worksheets, diagnostic quiz, MCQs, assignments.	Mathematics: Use of graphs, slopes, tangents, equations Psychology: Understanding behavior through rational choice

		line), preferences of the consumer (indifferenc e curve, indifference map) and conditions of consumer's equilibrium.		preference and budget line in finding out consumers equilibrium Construct the diagram showing consumer's equilibrium in indifference analysis				theory
				Chalk out the conditions for consumers equilibrium in indifference analysis Construct the				
				diagram showing consumers equilibrium in indifference analysis				
August	Microeconomi cs: Demand Concept	Demand, market demand, determinan ts of demand, demand	10	Construct the diagram showing consumers equilibrium in indifference analysis Differentiate	Lecture method, visual demonstration, making of graphs and diagrams	Textbooks Digital platforms Interactive tools Class activities Worksheets	Flowcharts, short- answer questions, diagnostic quizzes, graph plotting activity	Mathematics: Creating and interpreting demand schedules and graphs Psychology: Consumer
		schedule,		between				preferences and

		demand curve and its slope, movement along and shifts in the demand curve		demand and desire draw demand curve relate demand to various factors affecting demand. By constructing a diagram of the demand curve and showing change in demand and change in quantity demanded.				behavioral economics Business Studies: Link to marketing, pricing strategies, and customer segmentation
Septemb er	Microeconomi cs: Elasticity of demand	price elasticity of demand - factors affecting price elasticity of demand; measureme nt of price elasticity of demand – percentage-	06	Enable students to differentiate between desire and Demand Chalk out the factors which affect Demand Differentiate between normal and inferior goods substitute and	Lecture method, practice of numerical questions, class discussion, revenue table activity (link elasticity to total expenditure), real world survey of elasticity of various items	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessments and feedback tools	Solve numerical questions, quizzes, extra worksheets, short-answer questions, case based questions	Mathematics: Use of percentage change, formulas, slope analysis Business Studies: Pricing decisions, revenue implications, product planning Psychology: Consumer responsiveness to

		change method and total expenditure method.		complementar y goods Draw the demand schedule and the demand curve Give reasons for the downward slope the demand curve Students will be able to measure Ed numerically				change
Septemb er	Microeconomi cs: Producers behavior, production function, product concept	Meaning of Production Function – Short-Run and Long- Run Total Product, Average Product and Marginal Product. Returns to a Factor	05	Define production function Establish relationship between TPP and MPP using diagram Draw curves of TPP, MPP and AP Enable the students to chalk out various phases of law of variable	Lecture method, group discussion, assignments, numericals	Textbooks Digital platforms Interactive tools Class activities Worksheets	Concept sorting, short- answer questions and MCQs, numerical exercise, graph plotting and interpretation	Mathematics: Graphical analysis of functions, derivatives for MP/AP Business Studies: Link to factors of production, scaling of operations Economics: Understanding the behavior of inputs and outputs in production Physics:

				proportions They will be able to calculate MPP, APP and TPP Chalk out in which phase producer would lke to produce.				Relationship between inputs and output in terms of efficiency and technology
Septemb er	Microeconomi cs: Cost concept and Revenue concept	Cost – Short run costs - Total Cost, Total Fixed Cost, Total Variable Cost; Average Cost; Average Fixed Cost, Average Variable Cost and Marginal Cost - meaning and their relationship s. Revenue – Total	05	Enable the students to define cost and revenue Differentiate between various cost concepts Establish relationships between TC, MC, AC using curves and schedules. Draw TR, MR and AR curves and understand the relationship between them. Draw the AR and MR curves	Lecture method, explanation of formulas, practice numericals and plot curves.	Textbooks Digital platforms Interactive tools Class activities Worksheets	Concept sorting, learning formulas, numerical worksheets, curve plotting, quizzes, MCQs and practice questions.	Accounting: Links with cost classification in financial statements Mathematics: Averages, slopes, curve analysis Business Studies: Costing and budgeting in business operations and Pricing and sales revenue analysis Commerce: Relation to income statements in

		Revenue, Average Revenue and Marginal Revenue - meaning and their relationship		in various markets and explain why the shape is so.				accounting
Septemb er	Microeconomi cs: Producers Equilibrium Producers Equilibrium using MR-MC approach	Producer's Equilibrium - meaning and its conditions in terms of Marginal Revenue Marginal Cost.	05	Enable the students to define producer's equilibrium Enable the students to draw diagrams showing producers equilibrium using MR and MC curves. Students will be able to tell why MP=MC, when MC curve cuts MR from below is Using diagram producer equilibrium will be explained using MR and	Concept explanation through lecture method and class discussion. Use of graphs and tables. Numerical problem solving.	Textbooks Digital platforms Interactive tools Class activities Worksheets	Concept mapping, quizzes, practice of numerical questions, written assignments.	Mathematics: use of numerical data, tabular representation and graphical analysis. Business studies: Linking with concepts of production, cost, and profit from the business decision- making perspective. Entrepreneurship: connect to startup planning, pricing strategies and cost management strategies.

				MC.				
Septemb er	Revision for Hal	f-yearly exams	 ;					
October	Microeconomi cs: Supply	Supply, market supply, determinan ts of supply, supply schedule, supply curve and its slope, movements along and shifts in supply curve	06	Enable students to differentiate between stock and supply Chalk out the factors which affect supply Differentiate between normal and inferior goods substitute and complementar y goods Draw the supply schedule and the supply curve Give reasons for the upward slope the supply curve Differentiate between change in supply and	Lecture method, graph drawing, class discussion	Textbooks Digital platforms Interactive tools Class activities Worksheets	Concept review, conceptual quiz, practice questions, case study and drawing of supply curve	Mathematics: Understanding slope, plotting graphs, calculating percentage changes Business Studies: Link to production decisions, pricing, and inventory management Economics: Connecting supply decisions with market conditions, government policies (subsidies, taxes)

				change in quantity supply using diagram Enable them to show changes on the supply curve because of change in factors affecting supply.				
October	Microeconomi cs: Elasticity of supply	price elasticity of supply; measureme nt of price elasticity of supply - percentage- change method	04	Define Es and chalk out the factors affecting Es Students will be able to tell degree of Es of various goods Students will be able to tell the values of various degrees of Es Enable students to draw the slope of various degrees of Es Enable students to	Group discussion, lecture method, graph plotting and numerical practice.	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessments and feedback tools	Quizzes, short answer questions, numerical practice, graphing task	Mathematics: Percentage changes and calculating PES Business Studies: Implications of elasticity on pricing, production planning, and inventory Economics: Understanding how supply responds to price changes across various industries

October	Microeconomi cs: Various market forms Perfect competition	Perfect competition - Features; Determinati on of market equilibrium and effects of shifts in demand and supply. (Short Run Only)	03	mathematically calculate Es and interpret the result. Define market based on competition in the market Chalk out the features and its implications in perfect market Draw the diagrams of how prices are determined in perfect market form.	Lecture method, group discussion, role play, real world examples	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessments and feedback tools	Concept mapping, case study analysis, short answer questions	Mathematics: Understanding and interpreting demand, supply, and cost curves in different market structures Business Studies: Pricing strategies in different market types, competition vs monopoly Economics: Microeconomic theory application
Novemb er	Microeconomi cs: Equilibrum	Simple Applications of Demand	05	Students will be able to show with the	Lecture method, real world case study, class	Textbooks Digital platforms	Quizzes, short-answer questions, graph plotting, scenario	Mathematics: Graphical analysis of equilibrium,
	price	and Supply: Price ceiling, Price floor.		help of a diagram, how equilibrium price and quantity is determined. Enable them to	discussion, graph plotting	Interactive tools Class activities Worksheets Assessments and feedback tools	analysis	calculation of equilibrium price and quantity Business Studies: Pricing strategies in relation to market

				draw diagrams, showing the effect of changes in DD and SS on equilibrium price and quantity. Draw the curves showing situation of excess and deficient DD Students will be able to chalk out the steps taken by the government in the situation of excess and deficient DD				equilibrium Economics: Applying equilibrium concepts to understand market behavio
Novemb er	Statistics for economics: Correlation	meaning and properties, scatter diagram; measures of correlation - Karl Pearson's method	10	Enable the students to understand the meaning of correlation. Enable them to establish relationships between the variables e.g. positive and	Lecture method, class discussion, numerical practice, real world examples.	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessments and feedback tools	Numerical exercises, graph interpretation, short-answer questions, quizzes, case study	Psychology : Correlation studies in behavioral research (e.g., relationship between stress and performance) Mathematics : Understanding of basic statistical operations,

		(two		nogativo				formulas for
		variables		correlation				Pearson's
		ungrouped						correlation
		data)		Enable the				coefficient
		Spearman's rank correlation (Non- Repeated Ranks and Repeated Ranks).		students to estimate the degree of correlation through scatter diagrams. Enable them to calculate Coeff. of correlation and tell the degree of correlation between them				Statistics : Data analysis techniques, understanding of correlation coefficients and their significance
Decemb	Statistics for	meaning,	10	Enable the	Lecture method,	Textbooks	Numerical exercises,	Mathematics:
er	economics:	types -		students to	class discussion,	Digital	short-answor	Understanding of
	index numbers	Price Index		numbers	numerica practice real	Interactive	auestions auizzes case	changes weights
		Consumer			world examples	tools	study	and averages
		Price Index		They will give		Class activities		
		and index of		some index		Worksheets		Statistics: Data
		industrial		numbers and		Assessments		analysis techniques
		production,		where they are		and feedback		for calculating and
		uses of		used.		tools		interpreting index
		Index		Chalk Out the				numbers
		numbers;		formulas for				Fconomics [.]
		Inflation		index numbers.				Application of
		and Index		Enable them to				index numbers in
		Numbers,		calculate				measuring
		Simple		various index				economic variables

		Aggregative Method.	numbers numerically.				such as inflation, GDP, cost of living, etc.
Decemb er	Revision for practice exams		Students will be doing the sample paper in their registers.	Practice of subjective and objective type tests will be given through pen and paper tests. DAV Sample paper will be discussed in class	Sample papers	Discussion of sample papers	
January	Practice exams		Enable them to attempt competency based questions.	Sample papers will be discussed in class . Practice of competency based questions will be given.	Sample papers	Discussion of competency based questions and sample papers	
February	Assessment of final project will be done Annual exam in February, 2025			Viva will be taken from the project and project reports will be assessed			

(2025-26) CLASS XI SUBJECT CHEMISTRY

OBJECTIVES

1 Promote understanding of basic facts and concepts of chemistry while retaining the excitement of chemistry.

2 Make students capable of studying chemistry in academic and professional courses(such as medicine, engineering ,technology) at tertiary level.

3 Expose the students to various emerging new areas of chemistry and apprise them with their relevance in future studies and their application in various spheres of chemical science and technology.

4 Equip students to face various challenges related to health,

nutrition , environment, population, weather, industries and agriculture.

5 Develop problem solving skills in students.

6 Apprise students with the interface of chemistry with other

disciplines of science such as Physics, Biology, Engineering Geology and Mathematics.

7 Acquaint students with different aspects of chemistry and its use in daily life.

8 Develop an interest in students to study chemistry as a discipline.

9 Integrate life skills and values in context of chemistry

EVALUATION AND ASSESSMENT

Examination	Month	Marks
Periodic I	May 2025	20
Periodic II/Half Yearly exam	September 2025	As per CBSE
Periodic III/ Pre Board I	November 2025	As per CBSE
Practice exam I/ Pre Board II	December 2025	As per CBSE

Internal Assessment/ Practicals	January 2026	As per CBSE
Annual exams/ CBSE exams	February 2026 March 2026	As per CBSE

COURSE STRUCTURE

S. No	UNIT	Marks
1	Some Basic Concepts of Chemistry	7
2	Structure of Atom	9
3	Classification of Elements and Periodicity in Properties	6
4	Chemical Bonding and Molecular Structure	7
5	Chemical Thermodynamics	9
6	Equilibrium	7
7	Redox Reactions	4
8	Organic Chemistry: Some basic Principles and Techniques	11
9	Hydrocarbons	10
	TOTAL	70

MONTH APRIL NO. OF WORKING DAYS 21

UNIT TOPIC / SUB TOPIC	LEARNING OUTCOMES	ASSESSM ENT TOOLS	METHODOL OGY TEACHING LEARNING STRATEGIES	RESOUR CES/ INTERDI SCIPLIN ARY APPROA CH
UNIT Some basic concepts of	Students will be able to • Understand and appreciate the	Oral test Pen paper test	Interactive approach	NCERT Vol 1

chemistry No. of periods :12 TOPIC General introduction Importance and scope of chemistry Nature of matter Laws of chemical combination s Dalton's Atomic theory Concept of elements compounds and mixture Atomic and molecular masses Mole concept and molar mass Percentage composition Empirical and molecular formula Chemical reactions Stoichiometr	 role of chemistry in different spheres of life Explain the characteristics of three States of matter Classify different substances into elements compounds and mixtures Use scientific notation Define SI base units and list some commonly used prefixes Differentiate between accuracy and precision Convert physical quantities from one system of units to another Explain various laws of chemical combination Appreciate significance of atomic mass average atomic mass molecular mass and formula mass 	Subjective MCQ test	Demonstration ACTIVITIES • Basic Labora tory techniq ues • Crystal lization of CuSO4 .2H20	
y and	Define the term			

MONTH MAY NO. OF WORKING DAYS 17

UNIT TOPIC / SUB TOPIC	LEARNING OUTCOMES	ASSESS MENT TOOLS	METHODO LOGY TEACHIN G LEARNIN G STRATEGI ES	RESOUR CES/ INTERDI SCIPLIN ARY APPROA CH
UNIT Structure of atom No.of periods:14	Students will be able to • Know about the discovery of	Periodic test MCQ	Lecture method Interactive	NCERT VOL 1

 Topic Discovery of electron proton and neutron Atomic number Isotopes and isomers Thomson's model and its limitations Rutherford 's model and its limitations Bohr's model and its limitation Concept of shells and Subshells Dual nature of matter and light de Broglie's relationship Heisenberg's uncertainty principle concept of orbitals Quantum numbers Shapes of s,pand d orbitals Pulse for 	 electron proton and neutron and their characteristics Describe Thomson Rutherford and Bohr's atomic models Understand the important features of the quantum mechanical model of atom Understand nature of electromagnetic radiation and Planck's Quantum theory Explain the photoelectric effect and describe features of atomic spectra State the De Broglie relation and Heisenberg Uncertainty Principle Define atomic orbital in terms of quantum numbers State Aufbau's principle, Pauli's exclusion principle and Hund's rule of maximum multiplicity 	test	approach Videos	
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filling electrons in atoms based on Pauli's exclusion principle,Auf bau's principle and Hund's rule • Electronic configuration of atoms • Stability of half filled and completely filled orbitals	• Write the electronic configuration of atoms		
filled orbitals			

MONTH JULY

NO. OF WORKING DAYS 25

UNIT TOPIC / SUB TOPIC	LEARNING OUTCOMES	ASSESS MENT TOOLS	METHODO LOGY TEACHING LEARNING STRATEGI ES	RESOU RCES
UNIT Classification of elements and periodicity in properties No.of periods: 8 TOPIC • Classificatio n	Students will be able to Appreciate how the concept of grouping elements in accordance to their properties lead to the development of periodic table 	Art Integrate d assignme nt Class test	Lecture method Group7y discussion Art integrated learning Power point presentation	NCERT VOL 1

 brief history of development of periodic table Modern Periodic law and present form of periodic table Periodic trends in properties of elements Atomic radii Ionic radii Ionic radii Inerrt gas radii Ionisation enthalpy Electron gain enthalpy Electronegat ivity Valency Nomenclatur e of elements with atomic number greater than 100 	 Understand the periodic law Understand the significance of atomic number and electronic configuration as the basis of periodic classification Name the elements with atomic number greater than hundred according to IUPAC Nomenclature Classify the elements into s ,p, d and f blocks and learn their main characteristics Recognise the periodic trends in physical and chemical properties of elements Use scientific vocabulary appropriately to communicate ideas related to certain important properties of elements 	in groups ACTIVITIE S Quantitative Analysis 1preparation of standard solution of oxalic acid 2 Titration of Oxalic acid vs NaOH	
	properties of elements for example atomic		

	radii, ionic radii, ionization enthalpy, electron gain enthalpy, electronegativity and valence of elements			
UNIT Chemical bonding and molecular structure No. of periods: 14 TOPIC • Valence electrons • Ionic bond covalent bond • Bond parametres • Lewis structures • Polar character of covalent bond • Covalent character of ionic bond • Valence bond theory • Resonance • Geometry of covalent molecules	 Students will be able to Understand kossel Lewis approach to chemical bonding Explain the octet rule and its limitations draw Lewis structures of simple molecules Explain the formation of different types of bonds Describe the VSEPR theory and predict the geometry of simple molecules Explain the valence bond approach for the formation of covalent bonds Predict the directional properties of covalent bonds Explain the 	Class Room Discussi on Lecture and Interactiv e approach	Art Integrated approach	

 VSEPR theory Concept of hybridisation involving s,p,and d orbitals Shapes of some simple molecules Molecular orbital theory of homonuclear diatomic molecules Hydrogen bond UNIT s & p Block Elements TOPICS Electronic configuratio n, Atomic & Ionic radii, Ionization Enthalpy, Hydration Enthalpy General trends in physical and chemical 	 different types of hybridization involving s p and d orbitals and draw shapes of simple covalent molecules Describe the molecular orbital theory of homonuclear diatomic molecules Explain the concept of hydrogen bonding Students Will be able to Write electronic configuration of s and p block elements Define, atomic abd ionic radii Ionisation enthalpy, hydration enthalpy and electron gain enthalpy Explain the physical and chemical properties of s and p block elements Describe unique 	Formativ e assessme nt	Peer teaching PPT	
 Frydration Enthalpy General trends in physical and chemical properties of 	 Explain the physical and chemical properties of s and p block elements Describe unique behavior of fort 			

 block elements across the periods and down the groups Unique behavior of the first element in 	group		
 Unique behavior of the first 			
element in each group			

MONTH AUGUST

NO. OF WORKING DAYS 23

UNIT TOPIC / SUB TOPIC	LEARNING OUTCOMES	ASSESS MENT TOOLS	METHOD OLOGY TEACHIN G LEARNIN G STRATEGI ES	RESO URCES
UNIT Thermodynamics TOPIC • Concept of system and types of systems • Surroundings • Work • Heat • Energy • Extensive and	 Students will be able to Explain the term system and surroundings Differentiate between open closed and isolated systems Explain internal energy work and heat State first law of 	Class test Oral test Numeric al ability test	Lecture method Interactive approach	NCER T VOL 1

 intensive properties State functions First law of thermodynam ics Internal energy and enthalpy Heat capacity and specific heat capacity Measurement of change in internal energy and change in enthalpy Hess's law of constant heat summation Enthalpy of bond dissociation, combustion, formation, 	 Thermodynamics and Express its mathematical formulation Explain state functions like internal energy and enthalpy Correlate between change in internal energy and change in enthalpy Measure experimentally internal energy change and enthalpy change Defines standard enthalpies Calculate enthalpy change for various type of reactions State and apply Hess's law of constant heat summation Differentiate 		
 Heat capacity and specific 	energy and change in enthalpy		
heat capacity	 Measure 		
• Measurement	experimentally		
of change in	internal energy		
internal energy and	change and		
change in	 Defines standard 		
enthalpy	enthalpies		
• Hess's law of	• Calculate enthalpy		
constant heat	change for various		
summation	type of reactions		
• Enthalpy of bond	• State and apply Hess's law of		
dissociation.	constant heat		
combustion,	summation		
formation,	• Differentiate		
atomisation,	between extensive		
sublimation,	and intensive		
pnase	• Define spontaneous		
ionisation.	and nonspontaneous		
solution and	processes		
dilution	• Explain entropy is a		
• Second law	thermodynamic		
of the arms of the arms of	state function and		
tnermoaynam	applied for		

 ics Introduction of entropy as a state function Gibb's energy change for spontaneous and nonspontaneo us processes Third law of thermodynam ics 	 spontaneity of a process Explain Gibbs Energy change Establish relationship between Gibb's energy change and spontaneity and equilibrium constant. 		
UNIT: Redox reactions No. of periods :6 TOPIC • Concept of oxidation and reduction • Redox reaction • Oxidation number	 Students will be able to Identify a Redox reaction as a class of reactions in which oxidation and reduction reactions occur simultaneously Define the terms oxidation reduction 		
 Balancing the redox reaction in terms of loss and gain of electrons and change in oxidation number Applications of redox 	 oxidant and reductant Explain the mechanism of redox reaction by electron transfer process Use the concept of oxidation number to identify oxidant and reductant in a reaction 		

reactions	 Classify the redox reactions into combination ,decom position, displacement and disproportionation reaction Balance chemical equations using oxidation number method and half reaction method Learn the concept of redox reactions in terms of electrode processes 			
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MONTH SEPTEM BER NO. OF WORKING DAYS 23

UNIT TOPIC / SUB TOPIC	LEARNING OUTCOMES	ASSES SMENT TOOLS	METHOD OLOGY TEACHIN G LEARNIN G STRATE GIES	RESOU RCES_
Revision work Half Yearly exams	-	Pen paper test	-	-

MONTH OCTOBER

NO. OF WORKING DATS 21					
UNIT	LEARNING OUTCOMES	ASSESSMENT	METHODOLOGY	RESOURCES	

TOPIC / SUB TOPIC		TOOLS	TEACHING LEARNING STRATEGIES	
 UNIT Organic chemistry Some basic principles and techniques No. of periods:14 TOPIC General introduction Methods of purification Qualitative and quantitative analysis Classification and IUPAC nomenclature of organic compounds Electronic displacement in covalent bond Inductive effect Electromeric effect Resonance and hyperconjugation Homolytic and Heterolytic fusion of a covalent bond Free radicals Carbocations and carbanions Electrophile and nucleophiles Types of organic reactions 	 Students will be able to Understand reasons for tetravalency of carbon and shapes of organic molecules Write structure of organic molecules in various ways Classify the organic compounds Name the compounds according to IUPAC system of nomenclature and also derive their structures from the given names Understand the concepts of Organic reaction mechanism Explain the influence of electronic displacement on structure and reactivity of organic compounds Recognise types of organic reactions Learn the techniques of purification of organic compounds Write the chemical reactions involved in the qualitative analysis of organic compounds 	Class test MCQ Assignment Mind Maps	Lecture method Group discussion Mind maps Salt Analysis Identification of basic radical	NCERT VOL 2

	I	 	
 UNIT Hydrocarbon TOPIC Classification of hydrocarbons Aliphatic hydrocarbons Alkanes Nomenclature Isomerism Conformations Physical properties Chemical reactions Mechanism of halogenation Combustion and pyrolysis Alkenes Nomenclature Structure of double bond Geometrical isomerism 	 Understand the principles involved in quantitative analysis of organic Students will be able to Identify basic radicals in given salt Apply Concept of common ion effect in identifying basic radical 		
PROJECT			

MONTH NOVEMBER NO. OF WORKING DAYS 22

UNIT TOPIC / SUB TOPIC	LEARNING OUTCOMES	ASSESSMENT TOOLS	METHODOLOGY TEACHING LEARNING STRATEGIES	RESOURCES
Unit Hydrocarbon	Students will be able to	Class test	Interactive approach	NCERT VOIL 2
Topics	• Name hydrocarbons according	MCQ	Peer yeaching	

• Physical	to IUPAC system of	Subjective	
properties	nomenclature		
• Methods of	• Recognise and write structures		
preparation	of isomers of alkanes ,alkenes,		
• Chemical	alkynes and aromatic		
reactions	hydrocarbon		
• Addition of	• Learn about various methods of		
hydrogen ,halo	preparation of hydrocarbons		
gen ,water ,hy	• Distinguish between alkanes		
drogen	alkenes alkynes and aromatic		
halides ,Marko	Hydrocarbons on the basis of		
vnikov's	physical and chemical properties		
addition	• Draw and differentiate between		
peroxide	various conformations of Ethane		
effect,	• Appreciate the role of		
Ozonysis	Hydrocarbons as a source of		
oxidation	energy and for other industrial		
• Mechanism of	applications		
electrophilic	• Predict the formation of addition		
addition	products of unsymmetrical		
• Alkvnes	alkene and alkynes on the basis		
Nomenclature	of mechanism		
• Structure of	• Comprehend the structure of		
triple Bond	benzene explain aromaticity and		
• Physical	understand mechanism of		
properties	electrophilic substitution		
• Methods of	reactions of benzene		
preparation	• Predict the directive influence of		
• Chemical	substituents in monosubstituted		
reaction	benzene ring		
Acidic			
character of			
alkynes			
Addition			
reaction of			
hydrogen halo			
gen hydrogen			
gen nyurogen			
--	--	------	
• Dynamic			
nature of			
equilibrium			
• law of mass			
action			
• law of			
chemical			
equilibrium			
• Equilibrium			
constant			
• Factors			
effecting			
equilibrium			
nature			
• Le chatlier's			
principle			
• Ionic			
equilibrium			
• Ionisation of			
acid and bases			
• Strong and			
weak			
electrolytes			
• Degree of			
ionisation of a			
poly basic acid			
 Actual strength Concept of pH 			
 Buffer solution 			
 Solubility 			
• boldonity			
common ion			
effect			
PRACTICAL			
Salt analysis			
-			

UNIT LEARNING OUTCOMES ASSESSMENT METHODOLOGY TOPIC / SUB TOPIC TOOLS TEACHING LEARNING **STRATEGIES** UNIT Students will be able to Formative Lecture Method The Gaseous state • State gas laws Interactive approach assessment •

MONTH DECEMBER NO. OF WORKING DAYS 24

The Gaseous state	• State gas laws	assessment	Interactive approach	Material
• Qualitative treatment of Gas laws, Ideal gas equation and deviations from it	 Represent Laws graphically and Interpret them Solve Numericals Derive ideal gas equation Explain deviations from ideal behaviour. 	only.		
Revision				
Practice exam I		Pen paper test		

RESOURCES

NCERT resource

MONTH JANUARY

NO. OF WORKING DAYS 17

UNIT TOPIC / SUB 7TOPIC	LEARNING OUTCOMES	ASSESSMENT TOOLS	METHODOLOGY TEACHING LEARNING STRATEGIES	RESOURCES
Revision Practical exams		Oral test Written Test	-	-

NO. OF WORKING DAYS 22

UNIT TOPIC / SUB TOPIC	LEARNING OUTCOMES	ASSESSMENT TOOLS	METHODOLOGY TEACHING LEARNING STRATEGIES	RESOURCES
Annual practicals Annual exams	_	Pen paper test Practical Examination	-	-

MONTH MARCH

NO. OF WORKING DAYS 21

UNIT TOPIC / SUB TOPIC	LEARNING OUTCOMES	ASSESSMENT TOOLS	METHODOLOGY TEACHING LEARNING STRATEGIES	RESOURCES
Annual Exam	_	Pen Paper test	-	-

ANNUAL CURRICULUM AND PEDAGOGICAL PLAN (ACPP)

		SUBJECT : PHYSICAL	NAME			
CLASS : XI		ACTIVITY TRAINER	OF THE TEACHER:	GEETA SRIVASTAVA		
Topic/ No. of Periods Date	Learning Outcomes	Assessment Tools (a) for Identifying Learning Gaps (b) for determining understanding level	Teaching Learning Strategies/ Activities	Resources	Inter-Disciplinary approach	
Topic : ROLE OF PHYSICAL EDUCATION IN CHILD DEVELOPMENT Sub topic: (1) Identify the physical and emotional needs of the children (2) Identify factors influencing physical activities (3) Plan physical activities for children	Students will be able to : *Demonstrate the knowledge of the importance of physical activity in child development * Designing of activities for children	Homework Class Discussion	Lecture-Based Instructions Group Learning Kinesthetic Learning	Text Book Websites	Sociology Psychology Anthropometry	
NO OF PERIODS : 19 DATE/MONTH APRIL						
Topic : PROPS AND EQUIPMENT Sub topic:	Students will be able to :					
 Describe various types and tools 	*Demonstrate the use of Propsand Equipment	Class Discussion	Lecture-Based Instructions	Text Books	Mathematics	

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of Assessment (2) Prepare the list of equipment (3) Describe the process of Inspection of Playfield NO OF PERIODS : 10	*Prepare the list of different types of Equipment used in sports activites * Know about the high frequency and low frequency inspection	Observation Quizzes	Group Learning Kinesthetic Learning	Websites Pictures	Physics Sports Engineering
DATE / MONTH MAY					
Topic : HYGIENE AND SAFETY Sub topic : (1) Demonstrate maintenanace of hygiene in Play area (2) Demonstrate Basic First Aid (3) Describe Emergency Response and Casualty management NO OF PERIODS : 12 DATE /MONTH: JULY	Students will be able to : * Identify the steps to maintain playground hygiene * Identify the steps to maintain environmental hygiene	Class Discussion Observation Quizzes	Lecture -Based Instructions Group Learning Kinesthetic Learning	Text Books Websites	Health Education Paramedic and Nursing Education
Topic : SPORTS AND FITNESS Sub topic : (1)Describe the criteria for	Students will be able to: *Demonstrate the Knowledge	Class Discussions	Lecture -Based Instructions	Text Books	Sports Management

selecting yearly sports activities (2) Identify resources required for organising sports competitions (3) Conduct Fitness Sessions	of Planning a Sports Day * Know about the fixture of Knock out tounament * Learn warm-up and cool down exercises	Observations Quizzes	Group Learning Kinesthetic Learning	Websites	Health Education
NO OF PERIODS :					
19 DATE /MONTH·					
AUGUST					
EMPLOYABILITY SKILLS Topic: COMMUNICATION SKILLS	Students will be able to:				
Sub topic: (1) Introduction to Communication (2) Verbal Communication (2) Nonverbal	* Identify the elements of communication	Class Discussions Observations	Lecture -Based Instructions Group Learning	Text Books Websites	English Psychology
 (3) Nonverbal communication (4) Pronunciation Basics (5)Communication Styles - Assertiveness 	*List the 7'C of Communication * Use the right non verbal Communication at work	Quizzes Homework	Individual Learning Self Reflection		Philosophy
 (6) Saying NO- Refusal Skills (7) Writing Skills -Parts of speech (8) Writing Skills -Sentence (9) Greetings and Introduction 	* Demonstrate the knowledge of using refusal skills				

 (10) Talking about self (11) Asking question (12) Talking about family (13) Describing Habits and Routines (14)Asking for Directions 					
NO OF PERIODS : 15 DATE/MONTH : SEPTEMBER					
Topic : SELF MANAGEMENT Sub topic : (1)Strength and Weakness analysis (2) Grooming (3) Personal Hygiene (4) Team Work (5) Networking Skills (6) Self Motivation (7) Goal Setting (8) Time Management	Students will be able to: *List your own strength and weaknesses * List the benefits of maintaining personal hygiene * Explain the meaning of Team *Describe the benefits of working in a team	Class Discussions Observations Quizzes Homework	Lecture -Based Instructions Group Learning Individual Learning Self Reflection	Text Books Websites	Psychology Philosophy Management
NO OF PERIODS : 10 DATE /MONTH OCTOBER					

Topic : INFORMATION AND COMMUNICATION TECHNOLOGY Sub topic : (1) Introduction to ICT (2) Basic interface of Libreoffice writer (3) Saving ,Closing ,Opening and Printing (4) Formatting text in a Word Document (5)Checking Spelling and Grammer (6) Inserting Lists, Tables ,Pictures and Shapes (7) Header ,Footer and Page Number (8) Tracking changes in Libreoffice Writer NO OF PERIODS : 15 DATE /MONTH: OCTOBER	Students will be able to: *Explain what a word processor is. *List the advantages of using a word processor *Identify some of the basic icons of the Tool Bar *Learn to Insert a Header in a Document	Homework Class Discussions Observations Quizzes	Lecture -Based Instructions Group Learning Individual Learning	Text Books Websites	Computer Science English
Topic: ENTREPRENEURSHIP SKILL Sub topic : (1) Introduction to	Students will be able to: *Describe the meaning of	Class Discussions	Lecture -Based Instructions	Text Books	Management

	1				
Entrepreneurship	Entrepreneurship				
(2) Values of an					
Entrepreneur		Observations	Group Learning	Websites	Finance
(3) Attitude of an	* Describe the difference				
Entrepreneur	between	Quizzes	Individual Learning		Marketing
(4) Thinking like an	entrepreneurship and				
Entrepreneur	employment	Homework			Economics
(5) Coming up with a					
Business Idea					Accounting
(6) Understanding the	*Explain the principles of idea				
Market	creation				
(7) Business Planning					
DATE /MONTH					
NOVEMBER					
Topic :	Students will be able to:				
Topic : GREEN SKILLS	Students will be able to:				
Topic : GREEN SKILLS Sub topic :	Students will be able to:				
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green	Students will be able to:				
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green	Students will be able to:	Class Discussions	Lecture -Based Instructions	Text Books	Science
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green Economy 2) Policies for a Green	Students will be able to:	Class Discussions	Lecture -Based Instructions	Text Books	Science
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green Economy 2) Policies for a Green Economy	Students will be able to: *Identify important sectors of	Class Discussions	Lecture -Based Instructions	Text Books Websites	Science
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green Economy 2) Policies for a Green Economy 3) Stakeholders in Green	Students will be able to: *Identify important sectors of green economy * Explain important policies for	Class Discussions Observations	Lecture -Based Instructions Group Learning	Text Books Websites	Science Engineering
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green Economy 2) Policies for a Green Economy 3) Stakeholders in Green	Students will be able to: *Identify important sectors of green economy * Explain important policies for a green	Class Discussions Observations	Lecture -Based Instructions Group Learning	Text Books Websites	Science Engineering Technology
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green Economy 2) Policies for a Green Economy 3) Stakeholders in Green Economy 4) Government and	Students will be able to: *Identify important sectors of green economy * Explain important policies for a green	Class Discussions Observations Quizzes	Lecture -Based Instructions Group Learning Individual Learning	Text Books Websites	Science Engineering Technology
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green Economy 2) Policies for a Green Economy 3) Stakeholders in Green Economy 4) Government and Private Agencies	Students will be able to: *Identify important sectors of green economy * Explain important policies for a green economy	Class Discussions Observations Quizzes Homework	Lecture -Based Instructions Group Learning Individual Learning	Text Books Websites	Science Engineering Technology Mathematics
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green Economy 2) Policies for a Green Economy 3) Stakeholders in Green Economy 4) Government and Private Agencies	Students will be able to: *Identify important sectors of green economy * Explain important policies for a green economy	Class Discussions Observations Quizzes Homework	Lecture -Based Instructions Group Learning Individual Learning	Text Books Websites	Science Engineering Technology Mathematics Social Studios
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green Economy 2) Policies for a Green Economy 3) Stakeholders in Green Economy 4) Government and Private Agencies	Students will be able to: *Identify important sectors of green economy * Explain important policies for a green economy	Class Discussions Observations Quizzes Homework	Lecture -Based Instructions Group Learning Individual Learning	Text Books Websites	Science Engineering Technology Mathematics Social Studies
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green Economy 2) Policies for a Green Economy 3) Stakeholders in Green Economy 4) Government and Private Agencies NO OF PERIODS :	Students will be able to: *Identify important sectors of green economy * Explain important policies for a green economy	Class Discussions Observations Quizzes Homework	Lecture -Based Instructions Group Learning Individual Learning	Text Books Websites	Science Engineering Technology Mathematics Social Studies
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green Economy 2) Policies for a Green Economy 3) Stakeholders in Green Economy 4) Government and Private Agencies NO OF PERIODS : 10	Students will be able to: *Identify important sectors of green economy * Explain important policies for a green economy	Class Discussions Observations Quizzes Homework	Lecture -Based Instructions Group Learning Individual Learning	Text Books Websites	Science Engineering Technology Mathematics Social Studies
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green Economy 2) Policies for a Green Economy 3) Stakeholders in Green Economy 4) Government and Private Agencies NO OF PERIODS : 10 DATE /MONTH	Students will be able to: *Identify important sectors of green economy * Explain important policies for a green economy	Class Discussions Observations Quizzes Homework	Lecture -Based Instructions Group Learning Individual Learning	Text Books Websites	Science Engineering Technology Mathematics Social Studies
Topic : GREEN SKILLS Sub topic : 1) Sectors of Green Economy 2) Policies for a Green Economy 3) Stakeholders in Green Economy 4) Government and Private Agencies NO OF PERIODS : 10 DATE /MONTH NOVEMBER	Students will be able to: *Identify important sectors of green economy * Explain important policies for a green economy	Class Discussions Observations Quizzes Homework	Lecture -Based Instructions Group Learning Individual Learning	Text Books Websites	Science Engineering Technology Mathematics Social Studies

ANNUAL CURRICULUM AND PEDAGOGICAL PLAN (ACPP)

2025-26

SUBJECT: PHYSICAL EDUCATION

CLASS : XI

NAME OF THE TEACHER: GEETA SRIVASTAVA

Topic/ No. of Periods Date	Learning Outcomes	Assessment Tools (a) for Identifying Learning Gaps (b) for determining understanding level	Teaching Learning Strategies/ Activities	Resources	Inter-Disciplinary approach
Topic : <u>CHANGING TRENDS IN PHYSICAL</u> <u>EDUCATION</u> Sub topics:	Students will be able to :				
(1) Concept, Aims & Objectives of Physical Education	*Recognise the concept, aim and the Objectives of Physical Education	Home work	Lecture Based Instructions Group Learning	Text Books Website	History Psychology

 (2) Development of Physical Education in India (3)Changing trends in sports- playing surface, wearable gear, and sports equipment (4)Career options in Physical Education (5)Khelo India Program and Fit India Program NO OF PERIODS : 15 DATE /MONTH: APRIL	*Identify the Post Independence development in Physical Education *Categorise the changing trends in sports playing surface ,wearable gears sports equipment, technological * Explore different career options in Physical Education *Make out the development of Khelo India and Fit India Program	Class discussion Assignment	Kinesthetic Learning Expeditionary Learning		Computer Science Mathematics
Topic: <u>Olympic Value Education</u> Sub topics:	Students will be able to :				
(1) Olympism - Concept and	*Incorporate value of olympism in	Homework	Technology-Based Learning	Text Book	Political Science
olympic values(excellence,	your life	Group Discussion	Inquiry Based Learning	Websites	Science
friendship& respect)	*Differentiate between Modern and	Role Play	Kinesthetic Learning	Pictures	History
(2)Olympic Value Education	Ancient Olympic Games ,Paralympics,				
(3)Ancient and Modern	and Special olympic Games				
(4)Olympics -Symbols motto Flag					
Oath	* Identify the Olympic Symbol and				
and Anthem	Ideals				
(5)Olympic Movement Structure	* Describe the structure of olympic				
	Movement				
NO OF PEROIDS:					
10					
DATE /MONTH:					

MAY					
Topic: <u>PHYSICAL EDUCATION AND SPORTS</u> <u>FOR CHILDREN WITH SPECIAL NEEDS</u> Sub topic: (1) Concept of Disability and Disoder (2)Types of Disability,its causes &	Students will be able to : *Identify the concept, types of Disability and Disorder	Group Discussion Assignment	Lecture-Based Learning Technology Based Learning	Text Book Websites	Sociology Psychology
nature(intellectual disability,physical disability) (3)Disability Etiquettes (4)Aims and Objectives of Adaptive Physical Education (5)Role of Various Professionals for children with special needs	*Adhere to and respect children with special needs by following etiquttes * Identify possibilities and scope in adaptive Physical Education *Relate various types of Professional support for children with special needs, along with their roles and responsibilities	Observation	Kinesthetic Learning		Computer Science Physiology Physiotherapy
NO OF PERIODS: 12					
JULY					
Topic: <u>PHYSICAL FITNESS ,WELLNESS</u> <u>AND LIFESTYLE</u> Sub topic: (1) Meaning and Importance of	Students will be able to:				
Wellness Health and Physical Fitness (2) Components/Dimensions of	*Explain Wellnessand its importance and define the componenets of wellness	Home work Short Assignment Observation	Lecture-Based Learning Individual- Based Learning Game-Based Learning	Text Book Websites	Physiology Anatomy Sociology

Wellness, Health and Physical Fitness	*Dintinguish between Skill -related	Role Play	Technology - Based Learning		Psychology
(3) Traditional Sports& Regional	and health-related components				Physiotherapy
for promoting Fitness	*Illustrate Traditional Sports and				Filyslotherapy
(4) Leadership through Physical					
Activity	*Relate Leadership through physical				
and sports	activity and sports				
(5) Introduction to First Aid-PRICE	*Illustrate the different steps used in				
	First Aid -PRICE				
NO OF PERIODS :					
10					
DATE/MONTH					
JULY					
	Students will be able to:				
TRAINING AND DOPING IN SPORTS					
Sub topic:		0		Taut Da ali	Dhusialaau
(1) Concept and Principles of Sports	*Understand the concept and	Quizzes	Individual Learning	Text Book	Physiology
(2) Training Load: Overload	Principles of sports training	Assignment	Inquiry-Based Learning	websites	Physics
Adaptation	*Summarise Training Load and its	Observation	Kinesthetic Learning		Anatomy
and Recovery	concept	e de la contraction			Psychology
	* Understand the concept of warming				
(3) Warming Up and Limbering Down	up				
types, methods, and importance	up & Limbering down in sports training				
(4) Concept of Skill, Technique, Tactic					
&	and their types, method &				
Strategy	importance				
(5) Concept of Doping and its	*Acquire the ability to differentiate				
disadvantages	between the skill,technique,tactics&				
	strategy to sports training				
NO OF PERIODS:	* Interpret the concept of doping				
14					
DATE/MONTH:					
AUGUST					

	Students wil be able to:				
	Students will be able to.				
PHYSIOLOGY IN SPORTS					
Sub tonic:					
(1) Definition and importance of	*Identify the importance of Anatomy	Quizzos	Lactura Pasad Instructions	Toxt Pook	Anatomy
(1) Demittion and Importance of	and Physiology	Quizzes Evit Tickets	Technology Pased Learning	Mobsitos	Bhysiology
and Sports	* Decognize the functions of the	Exit fickets		Distures	Chamistry
	Recognise the functions of the	Questioning	Expeditionary Learning	Digital	Computer
(2) Functions of the Skeleton System	Skeleton	Class Discussion		Tools	Science
Classification of Bones and Types of	* Understand the functions of Bones				
Joint	and identify various types of joints				
(3) Properties and Functions of	* Figure out the properties and				
Muscles	functions of muscles and understand				
(4) Structure and Functions of	how they work				
Circulatory System and Heart	* Identify and analyse the layout and				
(5) Structure and Functions of	functions Respiratory and Circulatory				
Respiratory System	Svstem				
NO OF PERIODS:					
15					
DATE/MONTH:					
AUGUST					
Topic:	Students will be able to:				
FUNDAMENTALS OF KINESIOLOGY					
AND					
BIOMECHANICS IN SPORTS					
Sub topics:					
(1)Dimensions and importance of	*Understand Kinesiology and Biome-	Homework	Lecture -Based Instructions	Text book	Anatomy
Kinesiology and Biomechanics in	chanics with their application in sports	Assignment	Kinesthetic Learning	Websites	Physiology
Sports	* Explain Biomechanical principles and	Observation	Group-Based Learning		Physics
(2) Principles of Biomechanics	their utilization in sports and physical				Anthropometry

(3) Kinetics and Kinematics in sports (4)Types of body movements- Flexion, Extension, Abduction, Adduct- ion, Rotation, Circumduction,Supination and Pronation (5) Axis and Planes - Concept and its application in the body movements NO OF PERIODS : 15 DATES/MONTH: AUGUST	education * Illustrate fundamental body movements and their basic patterns * Learn about the Axis and Planes and their application with body movements				Mathematics
Topic : YOGA Sub topics : (1) Meaning and importance of Yoga (2) Introduction to Ashtanga Yog (3) Yogic Kriya (Shat Karma) (4) Pranayam and its types (5) Active Lifestyle and stress management through Yoga NO OF PERIODS : 14 DATE/MONTH : SEPTEMBER	Students will be able to: * Understand the the concept and meaning of Yoga * Identify the Asanas, Pranayam, Meditation and Yogic Kriyas * Know about relaxation technique for improving concentration	Home work Observation Quizzes	Kinesthetic Learning Group Learning Individual Learning	Text books Websites Pictures	Anatomy Physiology Chemistry Psychology
Topic : <u>PSYCHOLOGY AND SPORTS</u> Sub topics: (1) Definition and importance	Students will be able to : *Identify the role of Psychology in	Homework	Lecture-Based Instructions	Text Books	Psychology

of Psychology in Physical Education and Sports (2) Developmental characteristics at at different stages of development (3) Adolescent Problems & their management (4) Team Cohesion and Sports (5) Introduction to Psychological Attributes: Attention, Resilence, Mental toughness NO OF PERIODS: 12 DATE/MONTH: OCTOBER	 Physical Education and Sports * Differentiate characteristics of growth and development *Explain the issues related to adolesc- ent behaviour and Team Cohesion in Sports *Correlate the Psychological concepts with the sports and athlete specific situation 	Quizzes Assignment Observation	Technology -Based Learning Group Learning Individual Learning	Websites Pictures	Biology Sociology
Topic : <u>TEST, MEASUREMENT & EVALUATION</u> Sub topic:	Students will be able to :				
 (1) Define Test, Measurement and Evaluation (2) Importance of Test , Measurement and Evaluation in Sports (3) Calculation of BMI , Waist - Hip Ratio, Skin Fold measurement (4) Somatotypes- Endomorphy, Mesomorphy and Ectomorphy (5) Measurement of health related fitness NO OF PERIODS : 15 DATE /MONTH : NOVEMBER 	*Define the terms Test, Measurement, and Evaluation *Discuss the importance of Measurem- ent and Evaluation processes *Understand BMI: a popular clinical standard and its computation * Differentiate between Endomorphy, Mesomorphy & Ectomorphy *Describe the procedure of Anthropo- metric measurement	Observation Assignment Quizzes	Lecture-Based Instructions Group Learning Kinesthetic Learning Individual Learning	Text Books Websites	Mathematics Statistics Anthropometry

ANNUAL CURRICULUM AND PEDAGOGICAL PLAN (ACPP)-2025-26

CLASS-XI SUBJECT-BUSINESS STUDIES NAME-SAVITA GUPTA

Topic/ No.of Periods/ Date	Learning Outcomes	Assessment tools(a) for identifying learning gaps(b) for determining understanding level	Teaching learning strategies/ Activities	Resources	Interdisciplinary approach

Part-A Unit-1	After going through the Unit, the students will be able to:	Questions asked to test their knowledge about	Problem based learningMind Maps,	NCERT	Related to History.
Evolution	•To acquaint the History of Trade and	business and other	storytelling, Case		
and	Commerce in India	concepts.	studies & Role Play		
Fundament	 Understand the meaning of business 				
als of	with special reference to economic and				
Business	non-economic activities.				
18 Periods	 Discuss the characteristics of business. 				
April	 Understand the concept of business, 				
	profession and employment.				
	 Differentiate between business, 				
	profession and employment				
	 Appreciate the economic and social 				
	objectives of business.				
	 Examine the role of profit in business 				
	 Understand the broad categories of 				
	business activities- industry and				
	commerce				
	 Describe the various types of 				
	industries.				
	• Discuss the meaning of commerce,				
	trade and auxiliaries to trade.				
	• Discuss the meaning of different types				
	of trade and auxiliaries to				
	tradeunderstand the concept of risk as				
1	l '				

	a special feature of business. .Examine the nature and causes of human risk.				
Unit-2 Forms of Business organization s 24 Periods May	 List the different forms of business organizations and understand their meaning. Identify and explain the concept, merits and limitations of Sole Proprietorship Identify and explain the concept, merits and limitations of a Partnership firm. Understand the types of partnership based on duration and on the basis of liability. State the need for registration of a partnership firm. Discuss types of partners –active, sleeping, secret, nominal and partner by estoppel Understand the concept of Hindu Undivided Family Business Identify and explain the concept, merits and limitations of Cooperative Societies. Understand the concept of consumers, producers, marketing, farmers, credit and housing cooperatives. Identify and explain the concept, merits and limitations of private and public companies. Understand the meaning of one person company. Distinguish between a private company and a public company Highlight the stages in the formation of a company. Discuss the important documents used in the various stages in the formation of a 	Questions will be asked for identifying various forms of business.	Problem based learningMind Maps, storytelling, Case studies & Role Play	NCERT	Related to Business environment

	company. • Distinguish between the various forms of business organizations. • Explain the factors that influence the choice of a suitable form of business organization.				
Unit-3- Public, Private and Global Enterprises 18 Periods July	 Develop an understanding of Public sector and private sector enterprises Identify and explain the features, merits and limitations of different forms of public sector enterprises Develop an understanding of Global Enterprises, joint ventures and public private partnership by studying their meaning and features. 	Pre Knowledge test.	Mind Maps, storytelling & Role Play	NCERT	Related to Economics
Unit 4: Business Services 18 Periods July August	Understand the meaning and types of business services. • Discuss the meaning and types of Business service Banking • Develop an understanding of difference types of bank account • Develop an understanding of the different services provided by banks • Recall the concept of insurance • Understand Utmost Good Faith, Insurable Interest, Indemnity, Contribution, Doctrine of Subrogation and Causa Proxima as principles of insurance • Discuss the meaning of different types of insurance-life, health, fire, marine insurance. • Understand the utility of different telecom	Pre Knowledge test	Discussions,Mind maps, Story telling	NCERT	Related to Economics

	services				
Unit 5: Emerging Modes of Business 10 Periods August	 Give the meaning of e-business. Discuss the scope of e-business. Appreciate the benefits of e-business Distinguish e-business from traditional business. 	Questions will be asked in the class to define e- business.	Discussions. Mind Map	NCERT	
Unit 6: Social Responsibili ty of Business and Business Ethics 12 Periods August September	 State the concept of social responsibility. Examine the case for social responsibility Identify the social responsibility towards different interest groups. Appreciate the role of business in environment protection State the concept of business ethics. Describe the elements of business ethics 	Pre Knowledge test	Mind Maps & Role Play	NCERT	
	September: Revision for I st term				
Part-B Unit 7: Sources of Business Finance 30 Periods October	 State the meaning, nature and importance of business finance Classify the various sources of funds into owners' funds. State the meaning of owners' funds. Understand the meaning of Global Depository receipts, American Depository Receipts and International Depository Receipts State the meaning of borrowed funds. 	Pre Knowledge test	Problem based learning Mind maps Story telling	NCERT	Related to Eco.

	 Discuss the concept of debentures, bonds, loans from financial institutions and commercial banks, Trade credit and inter corporate deposits. Distinguish between owners' funds and borrowed funds 				
Unit 8: Small Business and Enterprises 16 Periods November	Understand the concept of Entrepreneurship Development (ED), Intellectual Property Rights • Understand the meaning of small business • Discuss the role of small business in India • Appreciate the various Government schemes and agencies for development of small scale industries. NSIC and DIC with special reference to rural, backward area.	Questions will be asked to give concept of small business	Problem Based Learning Mind maps Story telling	NCERT	Related to Eco
Unit 9: Internal Trade 30 Periods November December	 State the meaning and types of internal trade. Appreciate the services of wholesalers and retailers Explain the different types of retail trade Highlight the distinctive features of departmental stores, chain stores and mail order business. Understand the concept of GST 	Questions will be asked to identify the various concepts of trade.	Project based learningMind maps, Role play Story telling	NCERT	
	Instructions regarding project work.				
Unit 10: Internationa I Trade 14 periods	Understand the concept of international trade. • Describe the scope of international trade to the nation and business firms	Pre Knowledge test	Discussions,Mind Maps Story telling	NCERT	Related to Eco

December	· State the meaning and objectives of export		
	Evaluate the important stops involved in		
	· Explain the important steps involved in		
	executing export trade		
	• State the meaning and objectives of import		
	trade.		
	\cdot Discuss the important steps involved in		
	executing import trade		
	· Develop an understanding of the various		
	documents used in international trade.		
	· Identify the specimen of the various		
	documents used in international trade.		
	· Highlight the importance of the documents		
	needed in		
	connection with international trade		
	transactions		
	· State the meaning of World Trade		
	Organization.		
	· Discuss the objectives of World Trade		
	Organization in promoting international		
	trade		
	Revision of Syllabus and practice of DAV		
	sample papers		

ANNUAL CURRICULUM AND PEDAGOGICAL PLAN (ACPP)-2025-26

CLASS-XI

SUBJECT-ACCOUNTANCY NAME-SAVITA GUPTA

Topic/ No.of Periods/ Date	Learning Outcomes	Assessment tools(a) for identifying learning gaps(b) for determining understanding level	Teaching learning strategies/ Activities	Resources	Interdisciplinary approach
Part-A Unit-1 Theoreti cal framew ork 25 Periods April	After going through this Unit, the students will be able to: • describe the meaning, significance, objectives, advantages and limitations of accounting in the modern economic environment with varied types of business and non-business economic entities. • identify / recognise the individual(s) and entities that use accounting information for serving their needs of decision making. • explain the various terms used in accounting and	Questions asked to identify concepts of Accountancy	Problem based Learning. Case Studies, Role play,Story telling.	T S Grewal & D K Goel	Related to Mathe matics

differentiate between		
different related terms like		
current and non-current,		
capital and revenue.		
· give examples of terms like		
business transaction,		
liabilities, assets, expenditure		
and purchases		
\cdot explain that sales/purchases		
include both cash and credit		
sales/purchases relating to the		
accounting year.		
· differentiate among income,		
profits and gains.		
\cdot state the meaning of		
fundamental accounting		
assumptions and their		
relevance in accounting.		
\cdot describe the meaning of		
accounting assumptions and		
the situation in which an		
assumption is applied during		
the accounting process.		
\cdot explain the meaning and		
objectives of accounting		
standards.		
\cdot appreciate that various		
accounting standards		
developed nationally and		
globally are in practice for		

	bringing parity in the accounting treatment of different items. • acknowledge the fact that recording of accounting transactions follows a double entry system. • explain the basics of recording accounting transaction and to appreciate that accrual basis is a better basis for depicting the correct financial position of an enterprise. • Understand the need of IFRS • Explain the meaning, objective and characteristic of GST.				
Unit-2 Account ing process 115 Periods May July August Septemb er	 explain the concept of accounting equation and appreciate that every transaction affects either both the sides of the equation or a positive effect on one item and a negative effect on another item on the same side of accounting equation. 	Pre Knowledge test	Project based learningMind Maps, Storytelling & Role play	D.K. Goel & TS Grewal	Related to Mathe- matics

\cdot explain the effect of a		
transaction (increase or		
decrease) on the assets,		
liabilities, capital, revenue and		
expenses.		
\cdot appreciate that on the basis		
of source documents,		
accounting vouchers are		
prepared for recording		
transactions in the books of		
accounts.		
\cdot develop the understanding of		
recording of transactions in a		
journal and the skill of		
calculating GST.		
\cdot explain the purpose of		
maintaining a Cash Book and		
develop the skill of preparing		
the format of different types		
of cash books and the method		
of recording cash transactions		
in Cash books.		
\cdot describe the method of		
recording transactions other		
than cash transactions as per		
their nature in different		
subsidiary books .		
· appreciate that at times bank		
balance as indicated by cash		
book is different from the		

bank balance as shown by the		
pass book / bank statement		
and to reconcile both the		
balances, a bank reconciliation		
statement is prepared.		
 develop understanding of 		
preparing bank reconciliation		
statements.		
\cdot appreciate that for		
ascertaining the position of		
individual accounts,		
transactions are posted from		
subsidiary books and journal		
proper into the concerned		
accounts in the ledger and		
develop the skill of ledger		
posting.		
 explain the necessity of 		
providing depreciation and		
develop the skill of using		
different methods for		
computing depreciation.		
understand the accounting		
treatment of providing		
depreciation directly to the		
concerned asset account or by		
creating provision for		
depreciation accounts.		
· appreciate the method of		
asset disposal through the		

concerned asset account or by		
preparing an asset disposal		
account.		
 appreciate the need for 		
creating reserves and also		
making provisions for events		
which may belong to the		
current year but may happen		
in next year.		
· appreciate the difference		
between reserve and reserve		
fund.		
, state the need and objectives		
of preparing trial balance and		
develop the skill of preparing		
trial balance.		
· appreciate that errors may		
be committed during the		
process of accounting.		
\cdot understand the meaning of		
different types of errors and		
their effect on trial balance.		
· develop the skill of		
identification and location of		
errors and their rectification		
and preparation of suspense		

	REVISION FOR I st TERM EXAM				
Part-B Unit-3 Financia 1 Stateme nts of Sole Propriet orship 60 Periods October Novemb er Decemb er	state the meaning of financial statements the • Purpose of preparing financial statements. • state the meaning of gross profit, operating profit and net profit and develop the skill of preparing trading and profit and loss accounts. • explain the need for preparing a balance sheet. • understand the technique of grouping and marshalling of assets and liabilities. • appreciate that there may be certain items other than those shown in trial balance which may need adjustments while preparing financial statements. • develop the understanding and skill to do adjustments for items and their presentation in financial statements like depreciation, closing stock, provisions, abnormal loss etc. • develop the skill of preparation of	Questions asked to identify the concepts.	Problem Based Learning Mind Maps, Role play,Story telling	T S Grewal & D K Goel	Related to Mathe matics

 trading and profit and loss account and balance sheet. state the meaning of incomplete records and their uses and limitations. develop the understanding and skill of computation of profit / loss using the statement of affairs method. 		
<u>Revision of syllabus along</u> with practice of DAV Sample Papers		

ANNUAL CURRICULUM AND PEDAGOGICAL PLAN (ACPP) CLASS: XI NAME OF THE TEACHER: PRIYAMVADA MISHRA SUBJECT: BIOLOGY

Month	Chapter Name	Subject	Periods	Learning Outcomes	Teaching	Resources	Assessment Tools	Interdisciplinar
					Strategies/		Learning Gaps	y Approach
					Activities		(b) for determining understanding level	
April	Unit-I Diversity of	Biology	07	Understand the	Brainstormi	Textbooks	Worksheets, quizzes,	Mathematics:
	Living Organisms			characteristics of living	ng, case	Digital	concept map, reflection,	Used in taxonomy
	Ch.1- The Living			organisms:	study	platforms	lab practical,	(Hierarchical
	World			Describe features such as	debate,	Interactive		classification),
	• Biodiversity;			growth, reproduction,	Demonstrati	tools		statistics for
	•Need for			metabolism, cellular	on Lab	Class		biodiversity
	classification; three			organization,	Activity,	activities		studies, and
	domains of life;			consciousness, etc.	Use of	Worksheets		growth rate
	•taxonomy and			Understand how	charts	Assessment		calculations.
	systematics;			classification helps in		s and		
	concept of species			identification, study, and		feedback		
	and taxonomical			understanding of		tools		
	•Hierarchy;			organisms.				
	• Binomial							
	nomenclature							

April May	Ch.2 - Biological Classification Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses, and Viroids, Prions. Ch.3 - Plant Kingdom Classification of plants into major groups; Salient & distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae & Angiosperms.	Biology	07 07	Understand the characteristics of each kingdom: Study the major features of Monera, Protista, Fungi, Plantae, and Animalia. Differentiate among major microbial groups: Recognize key differences between Understand the classification of the Plant Kingdom: Describe major plant groups—Algae, Bryophytes, Pteridophytes, Gymnosperms, and Angiosperms.	Hands-on Experiment s (Lab- Based Learning), Case Studies & Discussions , Group Work / Jigsaw Activity Group discussion, chart on metal and non-metal properties,	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessment s and feedback tools Textbooks Digital platforms Interactive tools Class activities Worksheets Assessment s and feedback tools	MCQ, Q&A, group presentation, Laboratory work Quiz, chart metal and non-metal	Chemistry: Understanding cell composition, biochemical pathways in different organisms (e.g., bacterial metabolism). Chemistry: Understanding of pigments (Chlorophyll, carotenoids), plant biochemistry and s. photosynthesi
July	Ch.4 - Animal Kingdom Salient features and classification of animals, non- chordates up to	Biology	06	Classify animals into major phyla: Identify and describe key characteristics of invertebrate phyla (e.g., Porifera, Cnidaria,	Data interpretatio n, group discussion, indicators analysis	Textbooks Digital platforms Interactive tools	Diagnostic worksheet, MCQ	Chemistry: Biochemical processes like respiration, excretion, and

	phyla level and chordates up to class level (salient features and at a few examples of each category).			Arthropoda) and vertebrates (Chordata).	Chemical Properties,	Class activities Worksheets Assessment s and feedback tools		digestion in animals
July	Unit-II Structural Organization in Plants and AnimalsChapter 5 - Morphology of Flowering Plants Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae	Biology	07	Identify and describe the basic parts of flowering plants: Root, stem, leaf, inflorescence, flower, fruit, and seed. Classify types of roots, stems, and leaves: Differentiate based on structure, modifications, and functions (e.g., taproot vs fibrous root, tendrils, phyllodes).	Concept Mapping & Visual Learning, Hands-On Activities / Lab Work, Group Discussion and Peer Learning,	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessment s and feedback tools	Role play, Quiz, Practical	Physics Mechanics of plant support and movement (e.g., tendrils), and principles of water transport.
July	Ch-6 - Anatomy of Flowering Plants Anatomy and functions of tissue systems in dicots and monocots.	Science	04	Understand the internal structure of plants: Describe the anatomy of roots, stems, and leaves in both dicots and monocots.	Group discussion, Hands-On Activities / Lab Work, Group Discussion	Textbooks Digital platforms Interactive tools Class activities	Worksheets, quizzes Diagnostic worksheet, MCQ	Chemistry: Composition and function of plant cell walls (cellulose, lignin), and

					and Peer	Worksheets		processes like
					Learning	Assessment		lignification
						s and		
						feedback		
						tools		
July	Ch.7: Structural	Science	06	Describe the anatomy of	Poster	Textbooks	Flowcharts, skills, oral	Geography:
	Organization in			earthworm, cockroach,	making,	Digital	discussion	Habitat-specific
	Animals			and frog	PPT on	platforms		structural
	Morphology,			Understand the	conservatio	Interactive		adaptations in
	Anatomy, and			morphology and internal	n efforts	tools		organisms like
	functions of			organ systems (digestive,		Class		cockroach
	different systems			circulatory, nervous,		activities		(terrestrial) or
	(digestive,			reproductive, etc.) of				frog
	circulatory,			these representative				(amphibious).
	respiratory,			organisms.				
	nervous and							
	reproductive) of							
	frog.							
August	Unit-III Cell:	Science	06	Describe the structure	Concept	Textbooks	Short answer, group	History of
	Structure and			and functions of cell	Mapping	Digital	report	Science:
	Function			organelles:	and Visual	platforms		Contributions of
	Ch.8 – Cell-The			Explain the roles of	Aids,	Interactive		scientists like
	Unit of Life			nucleus, endoplasmic	Storytelling	tools		Robert Hooke,
	Cell theory and cell			reticulum, Golgi	/ Historical	Class		Schleiden,
	as the basic unit of			apparatus, mitochondria,	Context,	activities		Schwann, and
	life, structure of			chloroplasts, lysosomes,	Hands-On			Virchow to cell
	prokaryotic and			ribosomes, etc.	Learning			theory.
	eukaryotic cells;				with			Mathematics:
	Plant cell and			Understand cell	Punnett			Surface area-to-
	animal cell; cell			membrane structure	Squares			volume ratio,
	envelope; cell							estimation of cell

	membrane, cell wall; cell organelles – structure & function; endomembrane system, endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure & function); nucleus			and transport mechanisms: Describe fluid mosaic model and passive/active transport processes.				sizes, and use of scale in diagrams and microscopy.
August	Chapter 10 – Cell Cycle and Cell Division Cell cycle, mitosis, meiosis and their significance	Science	04	Describe each phase (prophase, metaphase, anaphase, telophase) with changes in chromosomes and cell structure.	case study, diagram flow Group discussion, real-life cases,	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessment s and feedback tools	Worksheets, quizzes Diagnostic worksheet, MCQ	Physics: Concepts of tension and force during chromosome movement, and microscopy used to observe cell stages.
August	Unit-IV Plant Physiology Ch. 11- Photosynthesis in Higher Plants Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non- cyclic photophosphorylati on; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.	Biology	07	Understand the role of chloroplasts, thylakoids, pigments (chlorophyll, carotenoids), and light- harvesting complexes. Explain the mechanism of photosynthesis: Describe the light reactions (photophosphorylation) and dark reactions (Calvin cycle), including electron transport and ATP/NADPH formation.	Role play, case study, diagram flow Practical	Textbooks Digital platforms Interactive tools Class activities Worksheets	MCQ, Q&A, role play evaluative	Mathematics: Graphical representation of photosynthetic rates, limiting factor analysis, and stoichiometry of equations.
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August	ch.12 – Respiration in	Biology	05	Understand the concept of cellular respiration:	Map work, debate on	Textbooks	Diagram labeling, worksheet	Physics : Energy transformations,

	Plants			Explain how plants break	subsidies	Digital		thermodynamics
	Exchange of gases:			down food to release	chart on	platforms		(exergonic/endog
	cellular respiration			energy	magnetic	Interactive		onic reactions).
	- glycolysis.			Differentiate between	fields	tools		and gas exchange
	fermentation			aerobic and anaerobic	norab	Class		mechanics.
	(anaerobic). TCA			respiration:		activities		Environmental
	cvcle and			Understand oxygen		Worksheets		science: Role of
	electron transport			requirement, efficiency.		Assessment		plant respiration
	system (aerobic):			and end products in both		s and		in carbon cycling
	energy relations -			types.		feedback		and its
	number of ATP			51		tools		relationship with
	molecules							photosynthesis
	generated;							and ecosystem
	amphibolic							balance.
	pathways;							
	respiratory							
	quotient.							
	•							
Septemb	Ch. 13- Plant -	07	Biology	Understand the concept	Map work,	Textbooks	Diagram labeling,	Physics: Light
er	Growth and			of growth in plants:	debate on	Digital	worksheet	intensity,
	Development			Define growth,	subsidies,	platforms		photoperiod,
	Seed germination;			differentiate between	chart on	Interactive		temperature
	phases of plant			determinate and	magnetic	tools		effects on growth
	growth and plant			indeterminate growth,	fields	Class		(e.g.,
	growth rate;			and describe growth		activities		vernalization),
	conditions of			phases (lag, log, and		Worksheets		and mechanics of
	growth;			stationary). Identify		Assessment		movement.
	differentiation,			plant growth regulators		s and		Computer
	dedifferentiation			(PGRs):		feedback		science: Use of
	and			Describe the types,		tools		modeling
	redifferentiation;			functions, and				software to

	sequence of developmental processes in a plant cell; plant growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA.			applications of auxins, gibberellins, cytokinins, ethylene, and abscisic acid.				simulate plant growth under different environmental conditions.
Septemb er	Unit-V Human Physiology Chapter-14: Breathing and Exchange of Gases Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema,	07	Biology	Understand the mechanism of breathing: Describe inspiration and expiration and the role of diaphragm and intercostal muscles. Differentiate between respiration and breathing: Clarify cellular respiration vs mechanical breathing. Describe human respiratory system structure and function: Identify parts such as nasal passage, trachea, lungs, alveoli, and understand their roles	Flow out charts worksheet, debate on subsidies, chart on exchange of gases	Textbooks Digital platforms Interactive tools Class activities Worksheets Assessment s and feedback tools	Diagram labeling, worksheet	Chemistry: Role of gases (O ₂ , CO ₂), diffusion principles, acid- base balance (carbonic acid- bicarbonate buffer system). Physics: Gas laws (Boyle's and Dalton's Law), mechanics of breathing, and pressure-volume relationships in lungs.

	occupational							
	respiratory							
	disorders.							
Septemb	Chapter-15: Body	06	Biology	Understand the	Flow out	Textbooks	Comparative	Chemistry:
er	Fluids and			composition and function	charts	Digital	worksheet, quiz	Blood
	Circulation			of body fluids:	worksheet,	platforms	Diagram labeling,	composition
	Composition of			Describe the components	debate on	Interactive	worksheet	(plasma proteins,
	blood, blood			and roles of blood and	subsidies,	tools		electrolytes), pH
	groups, coagulation			lymph in transport and	chart of	Class		buffering, and
	of blood;			immunity.	heart	activities		oxygen binding
	composition of			Identify different types of		Worksheets		to hemoglobin.
	lymph and its			blood cells and their		Assessment		Mathematics:
	function; human			functions:		s and		Calculation of
	circulatory system -			Explain the structure and		feedback		cardiac output,
	Structure of human			role of RBCs, WBCs,		tools		pulse rate, blood
	heart and blood			and platelets.				pressure
	vessels; cardiac			Understand blood groups				readings, and
	cycle, cardiac			and transfusion:				ECG
	output, ECG;			Describe ABO and Rh				interpretation.
	double circulation;			group systems and their				
	regulation of			importance in transfusion				
	cardiac activity;							
	disorders of							
	circulatory system -							
	hypertension,							
	coronary artery							
	disease, angina							
	pectoris, heart							
	tailure.	0.						
October	Chapter-16:	07	Biology	Understand the concept	Flow out	Textbooks	Comparative	Chemistry: -
	Excretory			of excretion:	charts		worksheet, quiz	Chemical

	Products and			Define excretion and	worksheet,	Digital	Diagram labeling,	composition of
	their Elimination			explain its importance in	debate on	platforms	worksheet	urine, acid-base
	Modes of excretion			homeostasis and removal	subsidies,	Interactive		balance,
	- ammoniotelic,			of nitrogenous wastes.	chart of	tools		detoxification,
	ureotelism,			Differentiate between	excretory	Class		and nitrogen
	uricotelism; human			excretory products:	system	activities		metabolism.
	excretory system -			Compare ammoniotelic,	5	Worksheets		Mathematics: -
	structure and			ureotelic, and uricotelic		Assessment		Calculation of
	function; urine			organisms based on their		s and		glomerular
	formation,			waste forms.		feedback		filtration rate
	osmoregulation;			Describe the human		tools		(GFR), urine
	regulation of			excretory system:				output, and
	kidney function -			Identify and explain the				analysis of
	renin			structure and function of				concentration
	- angiotensin, atrial			kidneys, ureters, urinary				levels.
	natriuretic factor,			bladder, and urethra				
	ADH and diabetes							
	insipidus; role of							
	other organs in							
	excretion; disorders							
	- uremia, renal							
	failure, renal							
	calculi, nephritis;							
	dialysis and							
	artificial							
	kidney, kidney							
	transplant.							
October	Chapter-17:	04	Biology	Understand the concept	Flow out	Textbooks	Comparative	Physics:
	Locomotion and			of movement and	charts	Digital	worksheet, quiz	Biomechanics of
	Movement			locomotion:	worksheet,	platforms	Diagram labeling,	movement, levers
	Types of				debate on		worksheet	and joints, forces

	movement - ciliary,			Differentiate between	subsidies,	Interactive		acting on the
	flagellar, muscular;			movement and	chart of	tools		body, and motion
	skeletal muscle,			locomotion and identify	skeletal	Class		dynamics.
	contractile proteins			their types in humans and	muscles	activities		Chemistry: Role
	and			animals. Describe types		Worksheets		of ATP in muscle
	muscle contraction;			of movements in cells		Assessment		contraction, ionic
	skeletal system and			and organisms:		s and		exchange (Ca ²⁺ ,
	its functions; joints;			Learn about amoeboid,		feedback		Na^+, K^+ , and
	disorders of			ciliary, and muscular		tools		biochemistry of
	muscular and			movement.				muscle fibers.
	skeletal systems -							
	myasthenia gravis,							
	tetany, muscular							
	dystrophy, arthritis,							
	osteoporosis,							
	gout.							
October	Chapter-18:	05	Biology	Describe the structure	Flow out	Textbooks	Comparative	Chemistry:
	Neural Control			and functions of	charts	Digital	worksheet, quiz	Understanding
	and Coordination			cerebrum, cerebellum,	worksheet,	platforms	Diagram labeling,	the chemical
	Neuron and nerves;			medulla oblongata,	debate on	Interactive	worksheet	structure of
	Nervous system in			hypothalamus, and spinal	subsidies,	tools		hormones
	humans - central			reflexes.	chart of	Class		(peptides,
	nervous system;				nervous	activities		steroids, amines),
	peripheral				system	Worksheets		their synthesis,
	nervous system and					Assessment		and their
	visceral nervous					s and		mechanisms of
	system; generation					feedback		action.
	and conduction of					tools		
	nerve impulse							

October	Chapter- 19:	06	Biology	Understand the concept	Flow out	Textbooks	Comparative	Chemistry:
	Chemical			of chemical	charts	Digital	worksheet, quiz	Understanding
	Coordination and			coordination:	worksheet,	platforms	Diagram labeling,	the chemical
	Integration			Describe how hormones	debate on	Interactive	worksheet	structure of
	Endocrine glands			act as chemical	subsidies,	tools		hormones
	and hormones;			messengers that regulate	chart of	Class		(peptides,
	human endocrine			various body functions.	different	activities		steroids, amines),
	system -			Identify the glands of	types of	Worksheets		their synthesis,
	hypothalamus,			endocrine system:	charts	Assessment		and their
	pituitary, pineal,			Learn the structure and		s and		mechanisms of
	thyroid,			function of major		feedback		action.
	parathyroid,			endocrine glands,		tools		
	adrenal, pancreas,			including the pituitary,				
	gonads; mechanism			thyroid, parathyroid,				
	of hormone action			adrenal glands, pancreas,				
	(elementary			and gonads.				
	idea); role of							
	hormones as							
	messengers and							
	regulators, hypo -							
	and hyperactivity							
	and related							
	disorders;							
	dwarfism,							
	acromegaly,							
	cretinism, goiter,							
	exophinalmic							
	goure, diabetes,							
	disassa							
	and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goitre, diabetes, Addison's disease.							

October	Revision +	07	All	As needed	Reinforce	Practice	Worksheets	Mock tests, oral
	Internal		Syllabu		concepts,	papers,	Assessments and	revision
	Assessments		S		bridge	group	feedback tools	
					learning	revision		
					gaps, and	games,		
					prepare for	mock tests		
					exams.			

MTHEMATICS – CLASS XI

ANNUAL CURRICULUM AND PEDAGOGICALPLAN (ACPP) 2025-26

Topic/No. of periods/Date	Learning Outcomes	Assessment Tools	Teaching Learning	Resources	Inter Disciplinary approach
		(a) For Identifying Learning	Strategies/Activities		
		Gaps			
		(b) For Determining			
		Understanding Level			

<u>April' 2025</u>	(1) Sets	(a) Assignment Sheets: Given	- Lecture Method: Used to	Resources	(1) Sets
	The students will learn	as homework at the end of the	introduce concepts and explain	- NCERT Textbook:	` - <u>Computer Science:</u>
1. Sets	about the:	topic	theorems.	Primary resource for	Sets are used in computer science to
2. Relations and Functions	Sets and their representations,	- Logical Thinking and		learning	represent collections of data and
	Empty set	Higher-Order Thinking	- Learning by Doing: Students	- NCERT Exemplar Book:	perform operations on them.
No. of periods: 30	Finite and Infinite sets, Equal sets.	Skills: Separate sheets with	practice problems and	Additional practice	- <u>Statistics:</u>
	Subsets, Subsets of a set of real	questions to assess critical	participate in group activities.	problems	Sets are used in statistics to define
	numbers	thinking	- Consistency: Regular practice	- Online Resources: CBSE	sample spaces and events.
	especially intervals (with	(b) Class Tests: Conducted to	and review of concepts	Website and related Links.	- Logic:
	notations) Power	evaluate understanding	- Understanding: Focus on	lesson plans and study	Sets are used in logic to represent
	set Universal set. Venn diagrams	- Oral Tests: To assess	understanding concepts rather	materials	and analyse arguments.
	Union	students' ability to explain	than memorizing formulas		- <u>Data Analysis</u> :
	and Intersection of sets Difference	concepts	- Group Study: Collaborate		Sets are used in data analysis to
	of sets.	- Worksheets: To practice	with peers to discuss problems		identify patterns and relationships.
	Complement of a set. Properties of	problems and reinforce	and solutions		
	complement.	learning	- Seek Help: Ask teachers for		(2)Relations and Functions
		- Re-tests: Conducted based	assistance when needed.		- <u>Computer Science:</u> Relations and
		on student performance			functions are fundamental concepts
					in programming, data
	(2) Relations and Functions				structures, and algorithms.
	The students will learn about the:				 <u>Physics</u>: Functions are used to
	Ordered pairs. Cartesian product				model physical phenomena, such as
	of sets.				motion, energy, and forces.
	Number of elements in the				<u>- Economics</u> : Functions are used to
	Cartesian				model economic systems, supply and
	product of two finite sets.				demand, and cost-benefit analysis.
	Cartesian product				<u>- Biology:</u> Functions can be used to
	of the set of reals with itself (upto				model population growth, ecosystem
	R x R x				dynamics, and biochemical processes.
	R). Definition of relation pictorial				
	diagrams,				
	domain, co-domain and range of a				
	relation.				
	Function as a special type of				
	relation				
	Pictoral representation of a				
	function,				
	domain, co-domain and range of a				
	Tunction.				
	Keal valued functions, domain and				
	range of				
	tnese functions, constant, identity,				
	polynomial, rational modulus,				
	signum				
	exponential, logarithmic and				

<u>May' 2025</u>	greatest integer functions, with their graphs. Sum difference product and quotients of functions 1. Trigonometric Functions	(a) Assignment Sheets: Given	- Lecture Method: Used to	Resources	1. Trigonometric Functions
1. Trigonometric Functions	The students will learn about the:	as homework at the end of the topic	theorems.	- NCERT Textbook: Primary resource for	- <u>Physics</u> : Trigonometric functions
No. of periods: 28	Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity sin2x, $\cos 2x = 1$, for all x. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing sin (x ± y) and cos (x ± y) in terms of sinx, siny. cosx and their simple applications. Deducing identities like the following: $\tan(x \pm y) =$ $\tan x \pm \tan y/(1 \mp \tan x. \tan y)$, (i) cot (x + y) = $\cot x \cot y \mp 1/(\cot y \pm \cot x)$ (ii) sina $\pm \sinh =$ $2\sin(a\pm b)/2\cos(a\mp b)/2$ (iii) cosa + cosb = $2\cos (a + b)/2\cos (a - b)/2$ $\cos a - \cosh =$ $-2\sin (a \pm b)/2\sin(a - b)/2$ Identities related to $\sin 2x = 2\sin x \cos x$. $\cos 2x = \cos^2 x - \sin^2 x$, $\frac{2 \tan x}{(1 - \tan^2 x)}$	 Logical Thinking and Higher-Order Thinking Skills: Separate sheets with questions to assess critical thinking (b) Class Tests: Conducted to evaluate understanding Oral Tests: To assess students' ability to explain concepts Worksheets: To practice problems and reinforce learning Re-tests: Conducted based on student performance 	 Learning by Doing: Students practice problems and participate in group activities. Consistency: Regular practice and review of concepts Understanding: Focus on understanding concepts rather than memorizing formulas Group Study: Collaborate with peers to discuss problems and solutions Seek Help: Ask teachers for assistance when needed. 	learning - NCERT Exemplar Book: Additional practice problems - Online Resources: CBSE Website and related Links. provide lesson plans and study materials	are used to describe periodic phenomena, such as sound waves and light waves. - Engineering: Trigonometric functions are applied in engineering to design and optimize systems, including bridges, buildings, and electronic circuits. - Navigation: Trigonometric functions are used in navigation systems, including GPS and astronomy. - <u>Computer Science:</u> Trigonometric functions are used in computer graphics and game development.

	sin3x cos3x and tan3x etc.				
<u>July' 2025</u>		(a)Assignment Sheets: Given	- Lecture Method: Used to	Resources	
	(1) Complex Numbers	as homework at the end of the	introduce concepts and explain	- NCERT Textbook:	(1) Complex Numbers
(1) Complex Numbers		topic	theorems.	Primary resource for	
	The students will learn about the:	- Logical Thinking and		learning	- <u>Electrical Engineering:</u> Complex
(2) Linear Inequalities	Need for complex numbers,	Higher-Order Thinking	- Learning by Doing: Students	- NCERT Exemplar Book:	numbers are used to analyse AC
	especially	Skills: Separate sheets with	practice problems and	Additional practice	circuits and filter design.
	$\sqrt{-1}$, to be motivated by inability to	questions to assess critical	participate in group activities.	problems	- <u>Signal Processing:</u> Complex
No. of periods: 32	solve some of the Algebraic	thinking	- Consistency: Regular practice	- Online Resources: CBSE	numbers are used in signal
	equations.	(b) Class Tests: Conducted to	and review of concepts	Website and related Links.	processing to represent and analyse
	properties of complex numbers	evaluate understanding	- Understanding: Focus on	provide lesson plans and	signals.
	Argand plane.	- Oral Tests: To assess	understanding concepts rather	study materials	- <u>Navigation:</u> Complex numbers are
		students' ability to explain	than memorizing formulas		used in navigation systems, including
	Conjugate of $z = (a + ib)$ is	concepts	- Group Study: Collaborate		GPS and mapping.
	$\overline{z} = (a + ib)$	- Worksheets: To practice	with peers to discuss problems		<u>- Quantum Mechanics:</u> Complex
		problems and reinforce	and solutions		numbers are used to describe wave
	Multiplicative inverse of:	learning	- Seek Help: Ask teachers for		functions and probability amplitudes.
	$\frac{(\mathbf{a} - \mathbf{i}\mathbf{b})}{2 + 2}$	- Re-tests: Conducted based	assistance when needed.		
	$z = (a+ib)$ is $(a^{2}+b^{2})$.	on student performance			(1) Linear Inequalities
					- <u>Economics:</u> Linear inequalities are
					used to model economic systems,
					including supply and demand curves.
					- Business Studies: Linear
					inequalities are applied in business to
					make decisions about production and
	(2) Lincer Incernelities				resource allocation.
	(3) Linear inequalities				- <u>Engineering</u> : Linear inequalities are
	The students will learn about the:				used in engineering to design and
	Lincor inequalities. Algebraic				systems
	solutions of				Systems. - Computer Science: Linear
	linear inequalities in one veriable				- <u>Computer Science</u> , Linear inequalities are used in computer
	and their				science to solve ontimization
	representation on the number line				nrohlems
	representation on the number line.				Providing.
August' 2025	(1) Permutations and	(a)Assignment Sheets: Given	- Lecture Method• Used to	Resources	1. Permutations and
Tugust 2020	Combinations	as homework at the end of the	introduce concents and explain	- NCERT Textbook:	Combinations
1. Permutations and	The students will learn about the:	topic	theorems.	Primary resource for	- Computer Science: Permutations
Combinations	Fundamental principle of	- Logical Thinking and		learning	and combinations are used in
	counting. Factorial	Higher-Order Thinking	- Learning by Doing: Students	- NCERT Exemplar Book:	computer science to analyse
2. Binomial Theorem	n. (n!) Permutations and	Skills: Separate sheets with	practice problems and	Additional practice	algorithms and data structures.
No. of periods: 27	combinations,	questions to assess critical	participate in group activities.	problems	- Statistics: Permutations and
*	derivation of Formulae for nPr,	thinking	- Consistency: Regular practice	- Online Resources: CBSE	combinations are used in statistics to

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	and nCr, and their connections, simple applications.	 (b) Class Tests: Conducted to evaluate understanding Oral Tests: To assess students' ability to explain concepts Worksheets: To practice problems and reinforce learning Re-tests: Conducted based on student performance 	and review of concepts - Understanding: Focus on understanding concepts rather than memorizing formulas - Group Study: Collaborate with peers to discuss problems and solutions - Seek Help: Ask teachers for assistance when needed.	Website and related Links. provide lesson plans and study materials	calculate probabilities and analyse data. - <u>Biology:</u> Permutations and combinations are used in biology to study genetic variation and population dynamics. - <u>Cryptography</u> : Permutations and combinations are used in cryptography to develop secure encryption algorithms
	(2) Binomial Theorem The students will learn about the: Historical perspective, statement and proof of the binomial theorem for positive integral indices Pascal triangle and simple applications. The Binomial expansion $(a + b)^n$ has $(n+1)$ terms.				 (2)Binomial Theorem <u>Statistics</u>: Binomial theorem is used in statistics to calculate probabilities and analyse binomial distributions. <u>Computer Science</u>: Binomial theorem is used in computer science to analyse algorithms and data structures. <u>Engineering</u>: Binomial theorem is used in engineering to model and analyse complex systems. <u>Finance</u>: Binomial theorem is used in finance to model and analyse financial instruments and risk.
September' 2025 (1) Sequences and Series	(1) Sequences and Series The students will learn about the	(a) Assignment Sheets: Given as homework at the end of the	- Lecture Method: Used to introduce concepts and explain	Resources - NCERT Textbook.	(1) Sequences and Series
		topic	theorems.	Primary resource for	- <u>Finance</u> : Sequences and series are
(2) Revision for Half yearly	Arithmetic Progression (A.P.)	- Logical Thinking and	Looming by Dair of Stadarts	learning	used in finance to calculate interest
Exam No of periods: 29	Geometric Progression (G.P.)	Skills: Senarate sheets with	- Learning by Doing: Students practice problems and	- NUEKI Exemptar BOOK: Additional practice	- Physics: Sequences and series are
	general term	questions to assess critical	participate in group activities.	problems	used in physics to model and analyze
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	of a G.P. sum of n terms of a G.P. infinite G.P and its sum, geometric mean (G.M.), relation between A.M. and G.M. A.M. between two terms a and $b = \frac{(a+b)}{2}$ G.M. between two terms a and $b = \sqrt{ab}$ For any two non-negative numbers a and $bA.M. \geq G.M.$	thinking (b) Class Tests: Conducted to evaluate understanding - Oral Tests: To assess students' ability to explain concepts - Worksheets: To practice problems and reinforce learning - Re-tests: Conducted based on student performance	 Consistency: Regular practice and review of concepts Understanding: Focus on understanding concepts rather than memorizing formulas Group Study: Collaborate with peers to discuss problems and solutions Seek Help: Ask teachers for assistance when needed. 	- Online Resources: CBSE Website and related Links. provide lesson plans and study materials	 complex phenomena, such as wave patterns and motion. <u>Computer Science</u>: Sequences and series are used in computer science to analyse algorithms and data structures. <u>Engineering</u>: Sequences and series are used in engineering to design and optimize systems, including control systems and signal processing.
October' 2025 (1) Straight Lines (2)Conic Sections No. of periods: <u>24</u>	(1) Straight Lines The students will learn about the: Slope of a line Y = mx + c (1) Here <i>m</i> is the slope of the line(1) An angle between two lines. $\tan^{-1}\theta = \frac{(M-m)}{(1+Mm)}$ Various forms of equations of a line parallel to axis, point- slope form, slope-intercept form, two-point form, intercept form. Distance of a point from a line.	 (a) Assignment Sheets: Given as homework at the end of the topic Logical Thinking and Higher-Order Thinking Skills: Separate sheets with questions to assess critical thinking (b) Class Tests: Conducted to evaluate understanding Oral Tests: To assess students' ability to explain concepts Worksheets: To practice problems and reinforce learning Re-tests: Conducted based on student performance 	 Lecture Method: Used to introduce concepts and explain theorems. Learning by Doing: Students practice problems and participate in group activities. Consistency: Regular practice and review of concepts Understanding: Focus on understanding concepts rather than memorizing formulas Group Study: Collaborate with peers to discuss problems and solutions Seek Help: Ask teachers for assistance when needed. 	Resources - NCERT Textbook: Primary resource for learning - NCERT Exemplar Book: Additional practice problems - Online Resources: CBSE Website and related Links. provide lesson plans and study materials	 (1) Straight Lines <u>Physics</u>: Straight lines are used to describe motion, including velocity and acceleration. <u>Engineering</u>: Straight lines are used in engineering to design and optimize systems, including buildings, bridges, and roads. <u>Computer Science</u>: Straight lines are used in computer graphics and game development to create 2D and 3D models. <u>Navigation</u>: Straight lines are used in navigation systems, including GPS and mapping.
	 (2) Conic Sections The students will learn about the: Sections of a cone: Circles, Ellipse, Parabola, Hyperbola. A point, a straight line and a pair 				 (2) Conic Sections <u>Physics</u>: Conic sections are used to describe the orbits of planets, satellites, and comets. <u>Engineering</u>: Conic sections are used in engineering to design and optimize systems, including satellite dishes and optical lenses. <u>Astronomy</u>: Conic sections are used to study the orbits of celestial bodies

	of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola Standard equation of a circle.				and predict astronomical events. - <u>Architecture:</u> Conic sections are used in architecture to design and construct buildings and bridges.
November' 2025 (1) Three Dimensional Geometry (2) Limits and Derivatives No. of periods: <u>28</u>	 (1) Three Dimensional Geometry The students will learn about the: Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Octants. Distance between two A(<i>x</i>1, <i>y</i>1, <i>z</i>1) and B(<i>x</i>2, <i>y</i>2, <i>z</i>2) points: √(<i>x</i>2 - <i>x</i>1)² + (<i>y</i>2 - <i>y</i>1)² + (<i>z</i>2 - <i>z</i>4) (2) Limits and Derivatives The students will learn about the: Limits of polynomials and rational functions trigonometric, exponential and logarithmic 	 (a) Assignment Sheets: Given as homework at the end of the topic Logical Thinking and Higher-Order Thinking Skills: Separate sheets with questions to assess critical thinking (b) Class Tests: Conducted to evaluate understanding Oral Tests: To assess students' ability to explain concepts Worksheets: To practice problems and reinforce learning Re-tests: Conducted based on student performance 	 Lecture Method: Used to introduce concepts and explain theorems. Learning by Doing: Students practice problems and participate in group activities. Consistency: Regular practice and review of concepts Understanding: Focus on understanding concepts rather than memorizing formulas Group Study: Collaborate with peers to discuss problems and solutions Seek Help: Ask teachers for assistance when needed. 	Resources - NCERT Textbook: Primary resource for learning - NCERT Exemplar Book: Additional practice problems - Online Resources: CBSE Website and related Links. provide lesson plans and study materials	 (1) <u>Three Dimensional</u> <u>Geometry</u> <u>Physics:</u> Three-dimensional geometry is used to describe the motion of objects in space, including projectiles and orbits. <u>Engineering:</u> Three-dimensional geometry is applied in engineering to design and optimize systems, including buildings, bridges, and machines. <u>Computer Science:</u> Three- dimensional geometry is used in computer graphics, game development, and computer-aided design (CAD). <u>Architecture:</u> Three-dimensional geometry is used in architecture to design and visualize buildings and structures. (1) Limits and Derivatives <u>Physics:</u> Limits and derivatives are used to describe motion, including velocity and acceleration. <u>Economics</u>: Limits and derivatives are used in economics to model and analyse economic systems, including supply and demand curves. <u>Engineering</u>: Limits and derivatives are used in engineering to design and optimize systems, including control systems and signal processing.

	functions. (i) $\lim_{x\to 0} \frac{\sin x}{x} = 1$ (ii) $\lim_{x\to 0} \frac{\tan x}{x} = 1$ (iii) $\frac{d(\sin x)}{dx} = \cos x$ (iv) $\frac{d(x)^n}{dx} = \mathbf{n} (\mathbf{x})^{n-1}$				- <u>Computer Science</u> : Limits and derivatives are used in computer science to analyse algorithms and model complex systems.
December" 2025 1. Statistics (2)Probability <u>REVISION AND PRACTICE</u> <u>EXAM</u>	 Statistics The students will learn about the: Measures of Dispersion: Range. Mean, Mean deviation about mean Median, Mean deviation about Median. variance(σ)² and standard deviation(σ) of ungrouped/grouped data. Std. deviation(σ) = √variance 	Assignment Sheets: Given as homework at the end of the topic - Logical Thinking and Higher-Order Thinking Skills: Separate sheets with questions to assess critical thinking (b) Class Tests: Conducted to evaluate understanding - Oral Tests: To assess students' ability to explain concepts - Worksheets: To practice problems and reinforce learning - Re-tests: Conducted based on student performance.	 Lecture Method: Used to introduce concepts and explain theorems. Learning by Doing: Students practice problems and participate in group activities. Consistency: Regular practice and review of concepts Understanding: Focus on understanding concepts rather than memorizing formulas Group Study: Collaborate with peers to discuss problems and solutions Seek Help: Ask teachers for assistance when needed. 	Resources - NCERT Textbook: Primary resource for learning - NCERT Exemplar Book: Additional practice problems - Online Resources: CBSE Website and related Links. provide lesson plans and study materials	 Economics: Statistics is used in economics to analyse economic data, including GDP, inflation, and employment rates. <u>Biology</u>: Statistics is used in biology to analyse and interpret data from experiments and studies. <u>Psychology</u>: Statistics is used in psychology to analyse and interpret data from studies and experiments. <u>Business Studies</u>: Statistics is used in business to analyse market trends, customer behavior, and financial data.
					(2)Probability
	(2) Probability				fundamental concept in statistics, used to analyse and interpret data.
	The students will learn about the:				- <u>Economics:</u> Probability is used in economics to model uncertainty and risk in economic systems.
	Random experiments; outcomes, sample				- <u>Biology:</u> Probability is used in

	spaces (set representation). Events, occurrence of the events, not, and and or events, exhaustive events, mutually exclusive events, Axiomatic (se theoretic) probability, connections with other theories of earlier classes.		 biology to model genetic inheritance and population dynamics. - <u>Computer Science:</u> Probability is used in computer science to model and analyse algorithms, including machine learning and artificial intelligence.
January' 2026			
REVISION AND PRACTICE EXAMS			
February' 2026 No. of periods: <u>26</u>			
REVISION AND PRACTICE PRE-BOARD EXAMS			
CBSE INTERNAL ASSESSMENT EXAM			
March			
CBSE FINAL EXAM			

ANNUAL CURRICULUM AND PEDAGOGICAL PLAN (ACPP)

CLASS: XI

SUBJECT: POLITICAL SCIENCE **TEACHER NAME: Vandana Rana** Month Chapter Name Book Periods Learning Teaching **Assessment Tools** Interdiscipli Resources Outcomes Learning (a) for Identifying nary Strategies / Learning Gaps Approach Activities (b) for determining understanding level NCERT, April **Ch-1 Constitution:** Indian 5 Understand Discuss MCQs, Q&A History – Constitutio Why and How? Constitution of Indian the making Preamble. **Sub-Topics** n at Work debates from India National and Constitution? philosophy of Constituent Movement Assembly • Constitution the Constitution. allows coordination and assurance • Specification of decision making powers • Limitations on the powers of government • Aspirations and goals of a society • Fundamental identity of a people b) The authority of a Constitution • Mode of

	 promulgation The substantive provisions of a constitution Balanced institutional 							
April	Ch-1 Political Theory: An Introduction Sub-Topics a) What is politics? b) What do we study in political theory? c) Putting Political theory into practice d) Why should we study political theory?	Political Theory	4	Understand the relevance of Political Theory.	Brainstormin g on "What is Politics?"	NCERT	Oral discussion	Psychology – Human behavior
May	Ch-2 Rights in the Indian Constitution Sub-Topics a) The importance of rights • Bill of Rights b)Fundamental rights in the Indian Constitution • Right to Equality • Right to Freedom • Right against Exploitation • Right to Freedom of Religion • Cultural and	Indian Constitutio n at Work	5	Analyze Fundamental Rights and their real-life application.	Case study on rights violations	Case laws, news articles	Worksheet, diagram	Legal Studies – Fundamenta l Rights

Marr	Educational Rights • Right to Constitutional Remedies c)Directive principles of state • what do the directive principles contain? d) Relationship between fundamental rights and directive principles	Delitical	5	Emploin the	Discussion	News are sta	MCO	Media
May	Ch-2 Freedom Sub-Topics a)The Ideal of freedom b) The sources of Constraints c)Why do we need constraints? a) The Harm Principle b) Negative and Positive liberty	Political Theory	5	Explain the concept of freedom and its limits.	Discussion on censorship	News reports	MCQ + long answer	Media Studies – Freedom of Press
May	Ch-3 Election and Representation Sub-Topics a) Elections and democracy b) Election system in India • First Past	Indian Constitutio n at Work	6	Learn about election systems and representation.	Conduct mock election in class	ECI data, ballot papers	Quiz, reflection	Civics – Electoral Process

	the Post System Proportional Representati on c) Why did India adopt the FPTP system? d) Reservation of							
	 e) Free and fair elections Universal franchise and right to contest Independent Election Commission f) Electoral Reforms 							
July	Ch-4 Executive Sub-Topics a) What is an executive? b) What are the different types of executives? c) Parliamentary executive in India • Power and position of President • Discretionar	Indian Constitutio n at Work	6	Understand the powers and structure of the Executive.	Role-play of President & PM	NCERT, YouTube lectures	Comparison chart	Civics – Organs of Government

	y Powers of the President d) Prime Minister and Council of ministers e) Permanent Executive: Bureaucracy							
July	Ch-3 Equality Sub-Topics a) Why does equality matter? • Equality of opportunities • Natural and Social Inequalities b) Three dimensions of equality c) Feminism, Socialism d) How can we promote equality?	Political Theory	6	Understand different types of equality and their challenges.	Equality walk activity	Articles, debates	Group project	Sociology – Social stratificatio n
July	Ch-5 Legislature Sub-Topics a) Why do we need a parliament? b) Why do we need two houses of parliament? • Rajya Sabha • Lok Sabha c) What does the parliament do?	Indian Constitutio n at Work	6	Study the structure and functioning of Parliament.	Draft a bill in class	Lok Sabha website	MCQ, creative task	English – Drafting skills

	 Powers of Rajya Sabha Special Powers of Rajya Sabha How does the parliament make laws? How does the parliament control the executive? What do the committees of parliament do? How does the parliament regulate 							
July	 parliament regulate itself? Ch-4 Social Justice Sub-Topics a) What is Justice? Equal Treatment for Equals Proportionate Justice Recognition of Special Needs b) Just distribution c) John Rawls Theory of Justice d) Pursuing Social Justice e) Free Markets 	Political Theory	6	Learn the principles of justice and fairness.	Mock court on just distribution	Stories, NCERT	Role play, case analysis	Moral Science – Justice

August	Ch-5 Rights Sub-Topics	Theory	3	Compare legal, moral	Rights pyramid	NCERT	Quiz + written work	and Human
	Parliament	D.1'.' 1	5		D:14			INI
	Rights D Judiciary and							
	e) Judiciary and							
	Jurisdiction d) Judicial Activism							
	Advisory							
	• Appellate Jurisdiction							
	Jurisdiction							
	• Writ							
	Original Jurisdiction							
	supreme Court							
	c) Jurisdiction of							
	Judiciary							
	b) Structure of the							
	Removal of Judges							
	t of Judges							
	Appointmen							
	e of Judiciary							
	• Independenc							
	judiciary?							
	independent			Judiciary.	discussion			
	• Why do we	n at Work		role of Indian	judgment			Judiciary
Tugust	Sub-Topics	Constitutio		structure and	Court	Legar autocuses	explanation	Studies –
August	Ch-6 Judiciary	Indian	6	Learn the	Supreme	Legal databases	Diagram	Legal
	Intervention							
	versus State							

	 a) What are Rights? b) Where do rights come from? c) Legal rights and the state d) Kinds of rights e) Rights and responsibilities 			and human rights.	activity			Rights
August	Ch-7 Federalism Sub-Topics a) What is Federalism? b) Federalism in the Indian Constitution • Division of Powers c) Federalism with a strong central government d) Conflicts in India's federal system • Centre- State Relations • Demands for Autonomy • Role of Governors and President's Rule • Demands for New States	Indian Constitutio n at Work	6	Understand centre-state relations and federal features.	Group chart on division of powers	NCERT maps	Short answer test	Geography – States & Union Territories

	 Interstate Conflicts e) Special provisions Jammu and Kashmir 							
August	Ch-6 Citizenship Sub-Topcis a) Introduction b) Full and equal membership c) Equal Rights d) Citizen and Nation e) Universal Citizenship	Political Theory	6	Identify the meaning and types of citizenship.	Compare citizenship laws of 3 countries	Articles, Constitutions	Group discussion	Law – Citizenship Act
September	Ch-8 Local Governments Sub-Topics a) Why local governments? b) Growth of Local Government in India • Local Governmen ts in Independen t India c) 73rd and 74th amendments d) 73rd Amendment • Three Tier Structure	Indian Constitutio n at Work	5	Explain the structure and importance of Panchayati Raj.	Simulate a Gram Sabha	Government reports	Project rubric	Civics – Local Administrat ion

September	 Elections Reservation s Transfer of Subjects State Election Commission ers State Finance Commission e) 74th Amendment f) Implementation of 73rd and 74th Amendments Ch-6 Citizenship Sub-Topics a) Introduction b) Full and equal membership c) Equal Rights d) Citizen and Nation e) Universal Citizenship f) Global Citizenship 	Political Theory	6	Identify the meaning and types of citizenship.	Compare citizenship laws of 3 countries	Articles, Constitutions	Group discussion	Law – Citizenship Act
October	Ch-9- Constitution as a Living Document Sub-Topics a) Are constitutions static? b) How to amend	Indian Constitutio n at Work	6	Understand the dynamic nature of the Constitution and the process of constitutional	Discuss Article 368 and landmark amendments - Timeline of key constitutional	NCERT, Constitution of India, Amendment documents	MCQs, group presentation, Q&A	Law – Constitution Amendment s History – Political Evolution

	 the constitution? c) Why have there been so many amendments? d) Contents of amendments made so far Differing Interpretatio ns Amendment s through Political Consensus Controversi al Amendment s e) Basic structure and evolution of the constitution f) Constitution as a Living Document Contribution of the Political Judiciary Maturity of the Political Leadership 			amendment.	amendments - Debate: "Should the Constitution be rigid or flexible?"			
October	Ch-7 Nationalism Sub-Topics a)Introducing Nationalism b) Nations and Nationalism	Political Theory	6	Understand nationalism, nation and state.	Flag interpretation activity	NCERT, documentaries	Poster, discussion	History – National Movements

 Shared Beliefs History Shared National Identity c) National self- determination d) Nationalism and Pluralism 							
OctoberCh-10-The Philosophy of the Constitution Sub- Topics a) What is meant by philosophy of the constitution?a) What is meant by philosophy of the constitution?• Constitutio n as Means 	Indian Constitutio n at Work	7	Comprehend the core values enshrined in the Preamble and their relevance in governance	 Analyze keywords from the Preamble through group posters Reflective writing: "How do constitutional values affect my daily life?" Connect ideals with real-life scenarios 	NCERT, Preamble, Constituent Assembly Debates	Poster rubric, written reflections, viva	Philosophy – Ideals of Justice & Liberty Moral Science – Values in Civic Life

	and minority rights • Secularism							
Nove	 mber Ch-8 Secularism Sub- Topics a) What is Secularism? Inter-religious Domination Intra-religious Domination b) Secular State c) The western model of secularism d) The Indian model of secularism e) Criticisms of Indian secularism Western Import Minoritism Interventionist Vote Bank Politics 	Political Theory	7	Explore secularism and its challenges in India.	Class speech on communal harmony	News clippings, NCERT	Speech rubric	Religious Studies
Nove	mber Revision + Internal Assessment	Full Syllabus	As required	Reinforce learning, practice skills, prepare for exam.	Sample papers, peer teaching	Worksheets, practice sets	Mock test	All Subjects

(ACPP)

CLASS XI	SUBJECT Physics		NAME OF TEACHER		PRADEEP KUMAR
Topic/no of period/month	Learning outcomes	Assessment tools for identifing learning gap	Teaching/learning strategies	Resources	interdisciplinary approach
Mathematical tools Unit 1	students will able to apply mathmatical tools in physics students will able to	b for understanding level	Approach /Activity	NCERT/ /HC Verma	mathematical tools used in chemistry dimensions in physical chemistry/ Thermodynamics
sub topics Need for measurement: Units of measurement;	understand need for measurement	MCQ test/group discussion/	inquiry/lecture		
systems of units; SI units, fundamental and derived units. significant figures, Determining the uncertainty in result. Dimensions of physical quantities, dimensional analysis and its applications.	students will able to find SI units and dimensions will able to apply dimensions to check correctness of ff formula and derive formula and able to find dimensions of derived quantity	quiz			
month April no of periods 20					
Unit II: Kinematics sub topics :Motion in a Straight Line Frame of reference, Motion in a straight line	students will able to	MCQ test/group discussion/	inquiry/lecture	NCERT/	sports
Elementary concepts of differentiation and integration for describing motion, uniform and non- uniform motion, average speed and	define/calculate/determine/un derstand topics mentioned in unit II . students will able to to draw various	quiz		HC Verma	athletics, swimming long jump

average velocity and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical and calculus treatment).	graphs				
Month May 19					
No of periods					
unit II Kinematics					
sub topics Scalar and vector					
quantities; position and	students will able to				
displacement vectors, general vectors and their	define/calculate/anylze/determ ine/	MCQ test/group discussion/	inguiry/lecture/activity	NCERT/	Sports/engineering/computer graphics/
notations; equality of					
vectors, multiplication of vectors by a real number;	understand topics mentioned				
addition and	in unit II and III	quiz		HC VERMA	maths
Unit vector; resolution of					
a vector in a plane, rectangular components					
Scalar and Vector					
product of vectors. Motion in a plane, cases					
of uniform velocity and					
uniform acceleration-					
uniform circular motion.					
Unit III:					
Laws of Motion Chapter–4: Laws of Motion					
Intuitive concept of force,					
of motion; momentum					
and Newton's					
second law of motion;					

impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road). month July No of periods 24 Unit IV: Work, Energy and Power sub topics Work done by a constant force and a variable students will able to force; kinetic energy, define/calculate/understand/a NCERT/ work- energy theorem, MCQ/ group discussion/ inquiry/lecture engineering/maths nalyze/ determine topics mentioned in unit IV and V HC Verma quiz power. Notion of potential energy, potential energy of a spring, conservative forces: non-conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions. Unit V: Motion of System of Particles and Rigid Body

sub topics Centre of mass of a twoparticle system, momentum conservation and Centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation). Unit VI: Month August No of periods 21 Revision for half yearly exam Month September no of periods 8 unit VI Gravitation sub topics laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth.

students will able to define/calculate/determine/un derstand analyze topics mentioned in unit VI and vii

MCQ/group discussion/quiz inquiry/lecture

re NCERT

environmental science and chemistry

H C verma

Gravitational potential energy and gravitational potential, escape speed, orbital velocity of a satellite, energy of an orbiting satellite. Unit VII: Properties of Bulk Matter sub topics Mechanical Prop-erties of Solids Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy. Application of elastic behavior of materials (qualitative idea only					
month October					
unit VII properties of matter sub topics Mechanical Properties of Fluids Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications (Torricelli's law and Dynamic lift). Surface energy and surface tension, angle of	students will able to define/calculate/determine/un derstand analyze topics mentioned in unit VII and VIII	MCQ/group discussion/quiz	inquiry/lecture	NCERT H C verma	environmental science and chemistry

contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise. Chapter-10: Thermal Properties of Matter Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv calorimetry; change of state

- latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law. Unit VIII: Thermodynamics Chapter-11: Thermodynamics Thermal equilibrium and definition of temperature, zeroth law of thermodynamics, heat, work and internal energy. First law of thermodynamics, Second law of thermodynamics: Thermodynamic state variable and equation of state. Change of condition of gaseous state isothermal, adiabatic, reversible, irreversible,

and cyclic processes. Unit IX: Behavior of Perfect Gases and Kinetic Theory of Gases month November no of periods 21					
Unit IX: Behavior of Perfect Gases and Kinetic Theory of Gases sub topics Kinetic Theory Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's numbe	students will able to define/calculate/determine/un derstand analyze topics mentioned in unit IX and X	MCQ/group discussion/quiz	inquiry/lecture	NCERT H C verma	Chemistry
Unit X Oscillations and Waves sub topics Periodic motion - time period, frequency, displacement as a function of time, periodic functions and their applications. Simple harmonic motion (S.H.M), uniform circular motion and its equations of motion; phase;					
oscillations of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.					
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month December					
no of periods 15					
unit X					
sub topics Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes,	students will able to define/calculate/determine/un derstand analyze topics mentioned in unit X	MCQ/group discussion/quiz	inquiry/lecture	NCERT/ H C verma	Chemistry and biology
fundamental					
month January					
no of periods 12					

CLASS: XI SUBJECT: MUSIC

NAME OF THE TEACHER: MRS. RUPALI PAL MONTH & YEAR: APRIL 2025

RESOURCES
Sangeet
Manjusha,
Sangeet Anand,
Bhatkhande

CLASS: XI SUBJECT: MUSIC NAME OF THE TEACHER: MRS. RUPALI PAL MONTH & YEAR: MAY 2025

	LEARNING	ASSESSMENT	TEACHING	
TOPIC	OUTCOMES	TOOLS	LEARNING	RESOURCES
			STRATAGIES	
Periods: 24	Students will	Harmonium &	Lecture Method	Sangeet
Short and Long	learn short	Tabla	and writing of	Manjusha,
Definitions;	definitions,		Raag Bhairvi	Sangeet
Introduction to Raag	developing		Notations with	Anand,
Bhairvi; Life Sketch	singing skills		Aalaap and Taan	Bhatkhande
of Tansen				
PRACTICAL:				
Aalaap & Taan				
Raag Bhairvi				

CLASS: XI SUBJECT: MUSIC

NAME OF THE TEACHER: MRS. RUPALI PAL MONTH & YEAR: JULY 2025

	LEARNING	ASSESSMENT	TEACHING	
TOPIC	OUTCOMES	TOOLS	LEARNING	RESOURCES
			STRATAGIES	
Periods: 24	Students will	Harmonium &	Lecture Method	Sangeet
Brief Study of	learn the way	Tabla	and writing of the	Manjusha,
Musical Elements in	of writing Drut		complete	Sangeet
Nataya Shastra and	Khayal		descriptions and	Anand,
Life Sketch of Pt. V.	Notations		their importance	Bhatkhande
N. Bhatkhande				
PRACTICAL:				
Raag Bhairvi				
(Drut Khayal)				

CLASS: XI SUBJECT: MUSIC NAME OF THE TEACHER: MRS. RUPALI PAL MONTH & YEAR: AUGUST 2025

	LEARNING	ASSESSMENT	TEACHING	
TOPIC	OUTCOMES	TOOLS	LEARNING	RESOURCES
			STRATAGIES	
Periods: 24	Developing	Harmonium &	Lecture Method	Sangeet
Definition of	singing skills	Tabla	and writing of	Manjusha,
Khayal and Teen			Aalaap and Taan	Sangeet Anand,
Taal; Life Sketch				Bhatkhande
of Pt. V. D.				
Paluskar				
PRACTICAL:				
Raag Bihag with				
Aalaap & Taan				

CLASS: XI SUBJECT: MUSIC NAME OF THE TEACHER: MRS. RUPALI PAL MONTH & YEAR: SEPTEMBER 2025

	LEARNING	ASSESSMENT	TEACHING	
TOPIC	OUTCOMES	TOOLS	LEARNING	RESOURCES
			STRATAGIES	
Periods: 24	Developing the	Harmonium &	Lecture Method	Sangeet
	sense of Sur	Tabla		Manjusha,
Raag Parichay of	and Taal			Sangeet
Bihag and Short				Anand,
Notes; Ek Taal				Bhatkhande
PRACTICAL:				
Practice of Dugun				
and Chaugun with				
Hand Beats				

CLASS: XI SUBJECT: MUSIC NAME OF THE TEACHER: MRS. RUPALI PAL MONTH & YEAR: OCTOBER 2025

	LEARNING	ASSESSMENT	TEACHING	
TOPIC	OUTCOMES	TOOLS	LEARNING	RESOURCES
			STRATAGIES	
Periods: 24	Students will	Harmonium &	Learning of Short	Sangeet
	learn know	Tabla	Notes and Taal	Manjusha,
Brief Study of Margi	how to learn		with Hand Beats	Sangeet
and Desi Sangeet;	Layakari,			Anand,
Chautaal	developing the			Bhatkhande
PRACTICAL:	sense of Taal			
Raag Bhimplasi Drut	Beats.			
Khayal with Simple				
Elaboration				

CLASS: XI SUBJECT: MUSIC

NAME OF THE TEACHER: MRS. RUPALI PAL MONTH & YEAR: NOVEMBER 2025

	LEARNING	ASSESSMENT	TEACHING	
TOPIC	OUTCOMES	TOOLS	LEARNING	RESOURCES
			STRATAGIES	
Periods: 24	Students will	Harmonium &	Lecture Method	Sangeet
Brief study of	learn the basic	Tabla	and Demo Method	Manjusha,
Drupad and Tarana	knowledge			Sangeet
as well as knowledge	about Classical			Anand,
of structure of	Music by			Bhatkhande
Taanpura	Taanpura			
PRACTICAL:				
One Devotional Song				
and recognition of				
Raag				

Computer Science Class XI : 2025-26 Code No. – 083

Learning Outcomes :

At the end of this course, students will be able to:

- a. Develop basic computational thinking
- b. Explain and use data types
- c. Appreciate the notion of algorithm
- d. Develop a basic understanding of computer systems architecture, operating system and cloud computing
- e. Explain cyber ethics, cyber safety and cybercrime
- f. Understand the value of technology in societies along with consideration of gender and disability issues

MONTH & NO. OF WORKING DAYS : APRIL - 18 DAYS

 Unit I: Computer Systems and Organisation Basic Computer Organisation: Introduction to computer system, hardware, software, input device, output device, CPU, 	 Lecture method Diagrammatic representation Group discussion Demonstration of activities 	The students will be able to -The concept of Basic Computer Organization
memory (primary, cache and secondary), units of memory (Bit, Byte, KB, MB, GB, TB, PB)		-Types of software -Operating system and its functions
• Types of software: system software (operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler & interpreter), application software		
• Operating system (OS): functions of operating system, OS user interface		

MONTH & NO. OF WORKING DAYS : MAY - 16 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
 Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan's laws and logic circuits Number system: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems. 	 Lecture method Practical method Pictorial demonstration Discussion Method 	 The students will be able to Know Boolean logic, Number system, Encoding Scheme etc.
• Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32)		
• Emerging trends: Cloud computing, cloud services (SaaS, IaaS, PaaS), blockchains, Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT)		

MONTH & NO. OF WORKING DAYS : JULY -22 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
 Unit II: Computational Thinking and Programming -1 Introduction to problem solving: Steps for problem solving (analysing the problem, developing an algorithm, coding, testing and debugging). representation of algorithms using flow chart and pseudo code, decomposition 	 Lecture method Practical method Pictorial demonstration Discussion Method 	 The students will be able to Know basic features of Python programming. Develop small python programs like 'Hello Work'
• Familiarization with the basics of Python programming: Introduction to Python, features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens (keyword, identifier, literal, operator, punctuator), variables, concept of 1-value and r- value, use of comments		

MONTH & NO. OF WORKING DAYS : AUGUST -23 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
 Knowledge of data types: number (integer, floating point, complex), boolean, sequence (string, list, tuple), none, mapping (dictionary), mutable and immutable data types Operators: arithmetic operators, relational operators, logical operators, assignment operator, augmented assignment operators, identity operators (is, is not), membership operators (in, not in) Expressions, statement, type conversion & input/output: precedence of operators, expression, evaluation of expression, python statement, type conversion (explicit & implicit conversion), accepting data as input from the console and displaying output Errors: syntax errors, logical errors, runtime errors Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control 	 Lecture method Practical method Pictorial demonstration Discussion Method 	 The students will be able to Learn data types in python programming language Various operators used in python programming language Learn expressions, statements in python. Know errors in python programming Know flow of control in python programming

MONTH & NO. OF WORKING DAYS : SEPTEMBER -23 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
 Conditional statements: if, if- else, if-elif-else, flowcharts, simple programs: e.g.: absolute value, sort 3 numbers and divisibility of a number Iterative statements: for loop, range function, while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number etc Strings: introduction, indexing, string operations (concatenation, repetition, membership & slicing), traversing a string using loops, built-in functions: len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(), rstrip(), strip(), replace(), join(), partition(), split() 	 Lecture method Practical method Pictorial demonstration Discussion Method 	The students will be able to know conditional statement, iterative statement in python programming Know use of string with its various functions

MONTH & NO. OF WORKING DAYS : OCTOBER - 20 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
• Lists: introduction, indexing, list operations (concatenation, repetition, membership & slicing), traversing a list using loops, built-in functions: len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(),sum(); nested lists, suggested programs: finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership & slicing), built-in functions: len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple, suggested programs: finding the minimum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a list in a tuple	 Lecture method Practical method Pictorial demonstration Discussion Method 	 The students will be able to Know about list with its various useful functions Know about tuples with its various useful functions

MONTH & NO. OF WORKING DAYS : NOVEMBER - 19 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
 Dictionary: introduction, accessing items in a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary, built-in functions: len(), dict(), keys(), values(), items(), get(), update(), del(), clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted(), copy(); suggested programs : count the number of times a character appears in a given string using a dictionary, create a dictionary with names of employees, their salary and access them Sorting techniques: Bubble and Insertion sort Introduction to Python modules: Importing module using 'import ' and using from statement, Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange), statistics module (mean, median, mode) 	 Lecture method Practical method Pictorial demonstration Discussion Method 	The students will be able to • to do programs by using dictionary with its various useful functions. • know sorting techniques • Know python modules and their uses

MONTH & NO. OF WORKING DAYS : DECEMBER - 22 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit III: Society, Law and Ethics	• Lecture method	The students will be able
• Digital Footprints	• Practical method	• Know the impact of internet on
• Digital society and Netizen: net etiquettes, communication etiquettes, social media etiquettes	• Pictorial demonstration	society,
• Data protection: Intellectual Property Right (copyright, patent,	• Discussion Method	• Know law and ethics related to cyber world.
trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source softwares and licensing (Creative Commons, GPL and Apache)		•Aware of Cyber Crime, Cyber Safety and Safely accessing the web sites.
• Cyber-crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, preventing cyber crime		•Know about information technology and Information
• Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying.		Technology Act (IT ACT)
• Safely accessing web sites: malware, viruses, trojans, adware		
• E-waste management: proper disposal of used electronic gadgets		
• Indian Information Technology Act (IT Act)		
• Technology & Society: Gender and disability issues while		
• teaching and using computers		

MONTH & NO. OF WORKING DAYS : JANUARY -18 DA

CHAPTER	METHODOLOGY	LEARNING OUTCOME
 Preparing of Practical file (containing at least best 20 python programs and at least 10 SQL queries Preparing of Project report 	 Lecture method Practical method Pictorial demonstration Discussion Method 	The students will be able toPrepare practical filePrepare Project report

Informatics Practices CLASS XI _ 2025-26 Code No. 065

Learning Outcomes :

At the end of this course, students will be able to:

- Identify the components of the Computer System.
- Create Python programs using different data types, lists and dictionaries.
- Explain what is 'data' and analyse using NumPy.
- Explain database concepts and Relational Database Management Systems.
- Retrieve and manipulate data in RDBMS using Structured Query Language
- Identify the Emerging trends in the fields of Information Technology.

MONTH & NO. OF WORKING DAYS : APRIL - 18 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit 1: Introduction to Computer System and computing: Evolution of computing devices, components of a computer system and their interconnections, Input/Output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. 2 Software: purpose and types – system and application software, generic and specific purpose software.	 Lecture method Practical method Pictorial demonstration Discussion Method 	 The students will be able to Know about components of a computer system, input output devices, types of memories Know about type of software

MONTH & NO. OF WORKING DAYS : MAY -16 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit 2: Introduction to Python Basics of Python	• Lecture method	The students will be able
programming,	• Practical method	to
Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation of expressions, comments, input and output statements, data type conversion, debugging, control statements: if-else, for loop	Pictorial demonstrationDiscussion Method	• Learn Python Basics

MONTH & NO. OF WORKING DAYS : JULY -22 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions.: len(), list(), append(), extend(), insert(), count(), find(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum() Dictionary: concept of key- value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions: len(), dict(), keys(), values(), items(), get(), update(), clear(), del()	 Lecture method Practical method Pictorial demonstration Discussion Method 	 The students will be able to Know list operations with its various useful functions

MONTH & NO. OF WORKING DAYS : AUGUST -23 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit 3: Data Handling using NumPy Data and its purpose, importance of data, structured and unstructured data, data processing cycle, basic statistical methods for understanding data - mean, median, mode, standard deviation and variance. Introduction to NumPy library, NumPy arrays and their advantage, NumPy attributes, creation of NumPy arrays; from lists using np.array(), np.zeros(), np.ones(),np.arange() indexing, slicing, and iteration; concatenating and splitting array; Arithmetic operations on one dimensional and two dimensional arrays. Calculating max, min, count, sum, mean, median, mode, standard deviation, variance on NumPy arrays.	 Lecture method Practical method Pictorial demonstration Discussion Method 	 The students will be able to Learn data handling using NumPy Learn Various mathematical and statistical operations with its various useful methods

MONTH & NO. OF WORKING DAYS : SEPTEMBER - 23 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
 Unit 4: Database concepts and the Structured Query Language Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: concept of attribute, domain, tuple, relation, candidate key, primary key, alternate key, foreign key. Structured Query Language: Data Definition Language,Data Query Language and Data Manipulation Language. 	 Lecture method Practical method Pictorial demonstration Discussion Method 	 The students will be able to know database concept (i.e. Database Management System) Know various keys constraints used in a database with their purposes.

MONTH & NO. OF WORKING DAYS : OCTOBER -20 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Introduction to MySQL: Creating a database, using database, showing tables using MySQL, Data Types : char, varchar, int, float, date Data Definition Commands: CREATE, DROP, ALTER (Add and Remove primary key, attribute). Data Query Commands: SELECT-FROM- WHERE, LIKE, BETWEEN, IN, ORDER BY, using arithmetic, logical relational operators and NULL values in queries, Distinct	 Lecture method Practical method Pictorial demonstration Discussion Method 	 The students will be able to Create a database with various DDL queries Manage a database with various DML queries
clause Data Manipulation Commands: INSERT, UPDATE DELETE	,	

MONTH & NO. OF WORKING DAYS : NOVEMBER - 19 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit 5: Introduction to the Emerging Trends Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.	 Lecture method Practical method Pictorial demonstration Discussion Method 	 The students will be able to aware about various online activities, their management and their impact on our society

MONTH & NO. OF WORKING DAYS : DECEMBER -22 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
• Preparing of Practical file (containing at least best 20 python programs and at least 10 SQL queries	Lecture methodPractical method	The students will be able to
• Preparing of Project report	Pictorial demonstrationDiscussion Method	Prepare practical filePrepare Project report