

DAV Public School, Sahibabad

Monthly Curriculum Class XI 2023-24

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
April					
Accountancy	CHAPTER-1: INTRODUCTION TO ACCOUNTING CHAPTER-2 : BASIC ACCOUNTING TERMS CHAPTER-3 : THEORY BASE OF ACCOUNTING CHAPTER-4 : BASIS OF ACCOUNTING CHAPTET-5 : ACCOUNTING EQUATION CHAPTER-6 : RULES OF DEBIT AND CREDIT	To enable students to have understanding about the basic concept of Accountancy, limitations, advantages, basic terms, Basic rules of Debit or Credit, various accounting principle, concepts and assumptions, Cash basis and credit basis and Accounting equation	CH 1: Describe the meaning, significance, objectives, advantages limitations of accounting in the modern economic environment with varied types of business and non - business economic entities. CH: 2 Explain the various terms used in accounting and differentiate between different related terms like current and non - current, capitaland revenue. Give examples of terms like business transactions, liabilities assets, expenditure and purchase CH 3: Fundamental accounting assumptions: GAAP: Concept Basic accounting concept: Business Entity, Money Measurement, Going Concern, Accounting period, Cost Concept, Dual aspect, Revenue recogtion, Matching, Full disclosure, Consistency, Conservatism, Materiality.System of accounting: CH 4: Basis of Accounting: Cash basis and Accrual Basis Accounting Standards: Applicability in IND AS; CH: 5 Concept of double entry System through Accounting	Lecture method Question answer session Problem solving method Teaching through power point presenatation	Class test-1 and Assignment-1

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Artificial Intelligence	Unit 1: Introduction To AI (knowledge)	<ol style="list-style-type: none"> 1. Understand the definition of Artificial Intelligence and Machine Learning 2. Evaluate the impact of AI on society 3. Unfold the AI terminology - Machine Learning (ML), Deep Learning (DL), Supervised Learning, Un-supervised Learning etc. 4. Understand the strengths and limitations of AI and ML 5. Identify the difference between AI on one side and Machine Learning (ML), Deep Learning (DL) on other 	<ol style="list-style-type: none"> 1. To get introduced to the basics of AI and its allied technologies 2. To understand the impact of AI on society Knowledge – Define AI and ML Comprehension – What are the AI products/ applications in society and how are they different from non- AI products/applications? Evaluation – What kind of jobs may appear in the future?	Lecture method ,Question answer session Problem solving method Demostration Method Teaching through power point presesntation	Class test-1,Activities-Machine Learning,Reinforcement Learning
BIOLOGY	Bridgecourse and introduction to Biology topics	Understands the objective of learning biology and gets a priliminary idea of syllabus to be learnt	Understanding ,observation, Drawing skills and identification of variuos species during activities like nature walk and herbarium collection	Brain stroming ,Student teacher interaction,Demonstartion methods	Quiz and oral testing
B.st	Ch-1 Nature of Business	To make students understand that Chap 1 : Business – meaning and characteristics , Business, profession and employment-Concepts; Objectives of business Classification of business activities -Industry and Commerce,Business risk-Concept	To make students understand about Business – meaning and characteristics , Business, profession and employment-Concepts; Objectives of business Classification of business activities - Industry and Commerce Business Risk concept	Lecture method Question answer session Problem solving method Teaching through power point presesntation	Oral Test , Group Discussion, Quiz

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Chemistry	Introduction of class XI latest syllabus unit wise with marking scheme UNit 1: Some Basic Concepts Of Chemistry	1.Introduction: Importance and scope of Chemistry. 2.Nature of matter, laws of chemical combination, 3.Dalton's atomic theory: concept of elements, atoms and molecules. 4.Atomic and molecular masses, 5.mole concept 6.percentage composition, empirical and molecular formula,	LEARNER will be able to 1.Appreciate contribution of India in the development of chemistry 2.Understand the role of chemistry and classify different substances into elements, compounds and mixtures; 3. Use scientific notations and determine significant figures 4. Explain various laws of chemical combination 5.Appreciate significance of atomic, average atomic mass, molecular mass and formula mass; 6. Describe mole and molar mass 7.Calculate the mass per cent and determine empirical formula and molecular formula	Lecture method , Question answer method , Videos related to topics , Blended learning, Brainstorming , Chalkboard instruction, Classroom discussion	Assignment-1 , Class test Objective -1 , Class test Subjective test -1 , Quiz-1

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Computer Science	Unit - 1 Computer System and Organisation Basic Computer Organisation: Introduction to computer system, hardware,software, input device,output device, CPU, memory (primary, cache and secondary), units of memory (Bit, Byte, KB, MB,GB, TB, PB) • 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 • 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. • Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32)	Students will be able to 1. Identify hardware devices 2. Recognize softwares and its categories 3.Convert unit of memory 4,Conversion of one number system to another 5.Making truth table 6.Identify ASCII,ISCII Codes	1.Understand about the complete architecture of a computer; 2.The students are able to understand the architecture of mobile; 3. Understand the concept between different gates; 4. Evaluate a Boolean expression using truth table; 5. Draw the logic circuit diagram of a Boolean function; 6. Understand different number systems; 7. Do conversion between any two number systems; 8. Understand the various encoding of characters in computer.	Videos, Presentation,Discussion	Quiz,Assignment-1
Practical	Write program to find Simple Interest				
Economics	PART A : Statistics for Economics 1.Introduction 2. Collection of Data	To make students understand the concepts, functions & importance of Statistics,Economics and basic terms related to it.To study and understand the economic problems of a country.To analyse economic problems such as production, consumption etc To make students understand the concept of data and different methods of collecting data.	Students will be able to restate an investigative question in terms of a statistical model and could successfully relate theoretical concepts to a real-world problem in a written report. The students will be able to recall the different methods of collecting data, could classify & present it in different forms.	Lecture Method, Classroom discussion, Interactive Method and Simplified Notes.	Assignment-1, Class test-1.

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English	Writing Skills- Speech Writing, Poster Making, Portrait of a Lady, A Photograph, Grammar- Tenses Gap Filling	Understand the feelings of parents and grandparents, know that distancing due to circumstances never affects relations, show care and concern for animals, to enable the students to care and share, love and affection, togetherness, change is the harsh and bitter reality of life, analyse that death is the inevitable end of all. Understand, identify & relate to the various nuances of writing speeches and designing posters. use the formats learnt when writing articles and Speeches, learn to divide work into paragraphs and make a smooth transition from the introduction to the conclusion.	The students will be able to accept and manage the situations with patience and tolerance, to know the sacrifices and support given by the grandparents in the family, understand the importance of human relationship, understand that death is imminent and human life is mortal.	Using self made PPTs, video links, info from various sites, historical significance, NCERT and other self made notes	Class Tests (objective & subjective), Assignments

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Geography	<p>BK 1 (Fundamentals of Physical Geography) Ch -1- Geography as a discipline Ch -2- The Origin and Evolution of the Earth, Ch -3- Interior of the Earth</p> <p>BK 2 (India Physical Environment) Ch 1- India Location</p>	<p>Bk 1 Ch 1 Geography as a Discipline Ch 1.To define and understand the scope and nature of Geography as a discipline. Ch 2.To acquire knowledge about earth’s origin through various theories. 2.2 To understand stages in the evolution of the earth. 2.3.To understand that the configuration of the surface of the earth is largely a product of the exogenic and endogenic processes operating in the interior of the earth BK 2 : Ch 1 1.To understand the geographical location of India and its significance. 2</p>	<p>Bk 1 Ch-1 1.Explain the meaning geography as an integrating discipline. 1.2. State the fields of geography and its relation with other disciplines. 1.3.Explain the approaches to study geography. 2.Describe the Big Bang, Planetesimal theory, Nebular Hypothesis related to the origin of the universe. 3.1. Describe direct and indirect sources of information about the interior of the earth. 3.2.Discuss Earthquakes—its causes and effects, define: Epicentre, Hypocentre, Earthquake waves and its propagation, Shadow zones, Measuring the intensity of Earthquakes. 3.3. Explain the interior structure of the earth. 3.4. Explain Volcanoes, its types and volcanic landforms. BK 2 Ch 1:1 Describe the location of India mentioning the surrounding water bodies.</p>	<p>1.Lecture Method 2.Presentation and interaction about the origin of the earth by students 3.Inquiry-Based Method -</p>	<p>Oral Test, Class Test, Periodic Test, Selection Test, Yearly, Exam</p> <p style="text-align: right;">Half Annual</p>
Activities	Observe your surroundings and note down the variation in natural as well as cultural phenomena.				

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History	CH - 2 WRITING AND CITY LIFE	Familiarize the learner with the nature of early urban centres, Discuss whether writing is significant as a marker of civilization	<p>Compare and analyze the transformation from Neolithic to Bronze Age Civilization in order to understand the myriad spheres of human development.</p> <ul style="list-style-type: none"> ● Elucidate the interwoven social and cultural aspects of civilization in order to understand the connection between city life and culture of contemporary civilizations. ● Analyze the outcomes of a sustained tradition of writing. 	Lecture method , Question answer method , Videos related to topics , Blended learning, Classroom discussion	Class test 1 & remedial assignment 1
Hindi	कायालयी पत्र, निबन्ध लेखन एवं अपठित	पत्र लेखन शैली एवं रचनात्मक लेखन का ज्ञान एवं बोधात्मक क्षमता	कायालयी पत्र एवं प्रबंधन एवं रचनात्मकता में निपुणता	विषयगत कक्षा-पारेचवी	अभ्यास कार्य एवं निरंतर लेखन

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Home Sci.	Unit I Introduction to Home Science Unit II: Understanding oneself: Adolescence Ch 2.- Understanding the Self. A. 'Who am I'?	Ch 1 1. Develop an understanding of the self and one's role and responsibilities as a productive individual and as a member of family, community and society. 2. Integrate learning across diverse domains and undertake a critical analysis of issues and concerns specific to family, community and society. 3. Appreciate the discipline of Home Science for professional careers. 4. Acquaint learners with the basic knowledge specific to five domains namely, Foods and nutrition, Human Development and Family studies, Fabric and Apparel, Resource Management and Communication and Extension. 5. Develop functional skills in the five domains for career and employment. 6. equip learners for enrichment and higher studies. General introduction, fields of Home Sc. , scope and employment potential Ch 2 Explaining the concept of -what is self ,and what is identity..	Students will be able to- Ch1 students will be responsible individual with specific reference to self, family and community. Ch 2 Understand puberty, changes in puberty , identity crises	Lecture method , providing notes	Assignment-1

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Maths	Introduction of class XI latest syllabus unit wise with marking scheme,Revision of some topics (Quadratic Equation, trigonometry, Arithmetic Progression) of class X related to class XI curriculum also. 1. Chapter 1 - Sets	To acquire knowledge and critical understanding,revision of basic concepts, terms, principles, symbols (up to class x mathematics) 1.Concept of sets and apply them to problem pictorially using venn diagrams	Students would be able to understand the revised topic which can be used in advanced manner 1. For Chapter 1 - Students would be able to * Identify collection of objects and well defined collection of object, Operations on sets & Questions related to wordproblems based on sets (Collaboration and Communication) & Questions related to venn diagraphes (Problem Solving)	lecture Method, Guided practice followed by independent practice, Brain stroming and Student Teacher Interaction,case studies, chalkboard instruction,classroom discussion	1.Assignments (NCERT level, HOTS Questions) 2. Oral Test of Formula (daily basis) 2. Assignment-1 (NCERT level, HOTS Questions) 2. Oral Test of Formula (daily basis) 3.Class Test -1
Practical	1.To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subset is 2 raised to the power n				
Music	> Brief Study of Naad, Shruti, Swar, Saptak,Raag, Khayal	Students should be able to explain the terms with live demos	1. Able to explain the use and differences of raag, shruti, saptak, naad, khayal, swar. 2. Able to apply foundational knowledge and skills in music theory.	Lecture and discussion.	Assignment - 1 of all topics Class test-1(Objective and Subjective)
Practical	Practice of Alankaars.				

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Painting	A)Pre-historic Rock Paintings and Art of Indus valley 1) Period and Location 2) Study and appreciation of following Pre-historic paintings: i. Wizard's Dance, Bhimbethaka	The objective of including the history of Indian Art for the students is to familiarise them with the various styles and modes of art expressions from different parts of India. This would enrich their vision and enable them to appreciate and develop an aesthetic sensibility to enjoy the beauty of nature and life	*To Develop skill of using drawing and painting material (surface, tools and equipment, etc.) effectively. *To Sharpen their observation skills through study of common objects and various geometrical and non-geometrical forms found in life and nature. *Knowledge of different mediums in painting	Demonstration and Lecture Method	Practical Assignment-1-3
PHE	Unit-1:-Changing Trends and career in physical education	To educate the students about aim and objective of physical education as well as Khelo India and Fit India program	For holistic development	Lecture method and task teaching method	Class Test-1,Assignment-1
Practical	Practical no 1: SAI Khelo India test	For motor development	To improve fitness	Practical method	Speed (100m)
Physics	Chapter-2: Motion in a Straight Line	To make the learners: - Understand the concept of rest and motion of a body in inertial and non inertial frames of reference. - Gain basic idea of calculus method and to know about the graphical treatment of different types of motion.	The learner will be able to: - Understand inertial frames of references; average, instantaneous velocity and speed. - Derive (graphically) kinematic equations for --Grasp the knowledge of uniformly accelerated motion -Draw displacement-time graphs, velocity-time graphs and acceleration-time graphs to represent different types of motion.	Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching	Ch# 2 Assignment 1, 2 Class Test - 1

MAY

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Accountancy	CHAPTER-7: ORIGIN OF TRANSACTIONS –SOURCE DOCUMENTS AND PREPARATION OF VOUCHER CHAPTER-8 : JOURNAL	To Make students to develop an understanding about different types of Voucher, Journal entries,	Chapter 7: Appreciate that on the basis of source documents, accounting vouchers are prepared for recording transactions in the books of accounts. Chap - 8- Recording of transactions in journal	Lecture method , Question answer session ,Problem solving method Teaching through power point presentation	Class Test - 2 Assignment - 2
Artificial Intelligence	Unit 2: AI Applications and Methodologies	1. Students get familiar with AI applications such as Chatbots, role of AI in weather forecasting, autonomous cars etc. 2. Students start appreciating the fact that AI is here to supplement us and NOT compete with us. 3. Students get a fair understanding of how our society is expected to look like in the age of AI and the skills that students need to acquire in order to keep pace with the changes.	To develop a fair understanding of AI applications and to know where and how to apply these tools to improve productivity. 2. They should see AI as a tool pretty much like they treat calculator as a tool for simple calculation. Knowledge – Where can AI be applied (like in the field of Computer vision, Speech, Text, etc.), What is deep learning? Comprehension –How AI will impact our society Analysis – How should we get ready for the AI age (future)	Lecture method , Question answer session ,Problem solving method Teaching through power point presentation	Activity-Creating Chatbot using Dialogflow, Semantis and other activities
Biology	Chapter-1.Diversity in the world Chapter2:Biological classification	Ch-1-Concept of living ,introduction of classification, taxa, nomenclature and other taxonomic categories, taxonomic aids Ch-2 Characteristics of five kingdom classification, and two kingdom classification, Detailed study of various kingdoms	Ch-1Students will understand the basis of classification and its applications Ch-2-Basis of classification and its various attributes	lecture cum demonstration method , question answer method ,videos related to topics ,flipped classrooms ,blended learning, brainstorming ,case studies, chalkboard instruction,class projects,classroom discussion	Assignment 1,2
B.st	Ch-1 Nature of Business contd---- Ch-2 Forms of Business organisation	Ch-2 :Sole Proprietorship ,Partnership ,HUF,Co-operative Society,Joint stock company-concept,merits and limitations	Students will be able to --- Ch-2 :Sole Proprietorship ,Partnership ,HUF,Co-operative Society,Joint stock company-concept,merits and limitations	Lecture method , Question answer session ,Problem solving method Teaching through power point presentation	Oral Test,Group Discussions,Quizzes,Assignments

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Chemistry	UNIT 1 contd... UNIT 2: STRUCTURE OF ATOM	UNIT 1 : 1. REVISION 2.chemical reactions, stoichiometry and calculations UNIT 2 : 1.Discovery of e,p,n 2. A, isotopes and isobars. 3.Thomson's model and its limitations. 4.Rutherford's model and its limitations, 5.Bohr's model and its limitations, 6.dual nature of matter and light 7.de Broglie's relationship, Heisenberg uncertainty principle,quantum numbers, shapes of orbitals, rules for filling electrons in orbitals - electronic configuration of atoms, stability of half-filled and completely filled orbitals.	UNIT 1 : 1.perform the stoichiometric calculations. UNIT 2 :Learner will be able to 1. know about the discovery of electron, proton and neutron and their characteristics; 2.describe Thomson, Rutherford and Bohr atomic models,atomic spectra; 3.understand quantum mechanical model of atom, nature of EMR and Planck's quantum theory 4.explain photoelectric effect ,de Broglie relation and Heisenberg uncertainty principle 5. define an atomic orbital and write the electronic configurations of atoms.	Lecture method , Question answer method , Videos related to topics , Blended learning, Brainstorming , Chalkboard instruction, Classroom discussion	Assignment-1 ,2 Class test Objective -1 ,2 Class test Subjective test -1 , 2 Quiz-1,2
Practical	SALT ANALYSIS (ANIONS, CATIONS)				

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Computer Science	Unit -2 Unit II: Computational Thinking and Programming – 1 Introduction to problem solving: <ul style="list-style-type: none"> Familiarization with the basics of Python programming, Knowledge of data types: 	Student will be able to understand the following Concepts of the Python: Modes of working,.Tokens,.Keywords,Identifiers,.variables,.Literals,Operators,Punctuators,Expression,Comments,Simple Input & Output,Data types,Immutable & Mutable Data types,.Precedence of operators,Type Conversion	<ol style="list-style-type: none"> Students will be able to learn problem and problem solving techniques in software development. They will know different phases involve in problem solving. Children will learn how to write an algorithm to make software design much comprehensive. They will learn how to draw a flow chart and importance of it in computer program. They will learn importance of decomposition in problem solving. Students will learn how a software is developed in different module and finally it is combined to perform a particular task. Children will able to learn Basics of python programming. They will know different elements of python program. Children will learn how to 	Demonstration, Discussion,Collaboration	Quiz, Worksheet-2
Practical	1..Write Python codes for the following:				
Economics	Organisation of Data and Measures of Central Tendency - Arithmetic Mean	The Classification of data and how data is classified in different statistical series. To make students understand the Meaning of Average, Methods of calculating central tendencies.	The students will be able to calculate average by different methods of calculating central tendencies.	Lecture Method, Classroom discussion, Interactive Method and Simplified Notes.	Assignment-2 Class test-2

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English	Writing Skills- Debate Writing, Advertisement, Summer of the Beautiful White Horse, Note Making & Summary	Inculcate the values like honesty, faith, trust, share responsibility with the members of the family, respect the values and traditions of the family, understand, identify & relate to the various nuances of writing debates, learn to judge and extract relevant points and note them in a specified format and learn to write summaries on the basis of these notes.	The students will be able to accept and manage the situations with patience and tolerance, inculcate values like honesty, trust, responsibility, deal with the temperament of different family members to create a bond, understand the importance of human relationship.	Using self made PPTs, video links, info from various sites, historical significance, NCERT and other self made notes	Class Tests (objective & subjective), Assignments
Geography	BK 1 (Fundamentals) Ch 3 - Interior of the Earth (continued), Ch 4 - Distribution of Oceans and Continents , Bk 2 (India Physical) Ch 2; Structure and Physiography Ch 3 - Drainage	BK 1 Ch 4.1 To describe the theory of continental drift proposed by Alfred Wegner. 4.2 To understand the present configuration of continents and oceans through plate tectonics theory. BK 2 Ch 2.1 To understand the evolution of different geological structures in India. 2.2- To acquire knowledge about physiographic divisions and their subdivisions. Ch 3.1 To understand the drainage system and drainage patterns of Indian rivers. 3.2 To understand the extent of use ability of river water and the problems associated with it. BK 2 Ch 2. To understand the evolution of different geological structures in India. 2.2 To acquire knowledge about physiographic divisions and their subdivisions. Ch 3. 1 To understand the drainage system and drainage patterns of Indian rivers. 3.2 To understand the extent of use ability of river water and the problems associated with it.	BK 1 Ch 4 .1Provide evidences in support of continental drift and force for drifting. 4.2 Explain Post drift studies, Convectional current theory, Mapping of the ocean floor, Ocean floor configuration, Concept of sea-floor spreading, 4.3 Describe theory of plate tectonics and different types of plate boundaries. 4.4 Trace the movements of Indian Plate. BK 2 ; Ch 2.1 Explain the evolution of various geological structures in different parts of the country. 2.2 Describe major physiographic divisions and the processes of their formation. Ch 3.1 Understand the major drainage systems of India. 3.2 Analyse the causes of river water pollution. 3.3 Differentiate between Himalayan and Peninsular rivers.	1.On the outline world map mark and label the following: a. Major plate boundaries b. Ring of fire c. Hot spot Volcanoes 2. Draw diagrams to show different types of plate boundaries 3. Identify the physiographic and geological region you live in. 4. Discuss the impact of physiography on the development of your region. 5. On an outline map of India mark and label the physiographic divisions of India. 6. Have a group discussion in your class about floods-their positive and negative impact. 7. Make a list of east flowing and west flowing rivers of Peninsular region.	Oral Test, Class test, Periodic test, Selection Test, Half Yearly, Annual Exam

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Practical	Bk 3 - Practical Book Ch 1 - Introduction to Maps	1. Familiarize students about maps and essentials of Map making.	1.Students will be able to explain map and different types of Maps.	Hands on Experience	
History	CH - 3 AN EMPIRE ACROSS THREE CONTINENTS	Familiarize the learner with the history of a major world empire, discuss whether slavery was a significant element in the economy,	Explain and relate the dynamics of the Roman Empire in order to understand their polity, economy, society and culture. <ul style="list-style-type: none"> Analyze the implications of Roman's contacts with the subcontinent Empires Examine the domains of cultural transformation in that period 	1.Lecture Method 2.Demonstration method 3.Picture Interpretation	Class test 2 .3 & Remedial assignment 2 & 3; Quiz via kahoot
Practical	Poster Making				
Hindi	कबोर (1), मीरा (1) प्रेमचंद, कृष्णा सोबती एवं जनसंचार माध्यम शब्दकोश : विवेचना	मानव-मूल्यों और जीवन-मूल्यों को परख प्राचीन कारोंगरो की पाक कला एवं मीडिया का समस्त ज्ञान	सुंदर एवं स्वस्थ समाज का निर्माण कर सकेंगे । पाक कला द्वारा रचनात्मक शक्ति का विकास । मीडिया दारा जीवन में जागरूकता शिक्षा एवं सूचना प्राप्त करना ।	अनेक ऐतिहासिक एवं पौराणिक कथाओं का श्रवण। विभिन्न माध्यमों के समचारों का पठन	अभ्यास कार्य, परिचर्चा एवं प्रश्नोत्तरों
Activities	श्रवण एवं वाचन कोशल				
Home Sci.	Ch-2 cont. B. Development and Characteristics of the Self(Development characteristics and needs of adolescents) C. Influences on Identity Ch.-3 Food, Nutrition, Health and Fitness	Ch 2 cont. -to know the needs and characteristics among adolescents , factors affecting their needs Ch 3 Define the terms food, nutrition and fitness, balanced diet ., understand RDA, classification of foods and food habits among adolescents.	Students will be able to - Ch3 Students will be able to relate the good health with good nutrition	lecture method	Assignment -2,3,4
Practical	2.Observe developmental norms: (Physical, Motor, Language and social -emotional) birth to three years.				

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Maths	1. Chapter 2- Relations and Functions 2. Chapter 3 - Trigonometric Functions 3. Chapter 4 - Complex Number and Quadratic Equation	1.To understand relation and functions., 2. To identify domain and codomain of functions 3. Radian and degree measure of angles,identities in solving problems 4.Under stand the need of complex numbers, identify the imaginary number use of complex numbers, modulus, conjugate and polar representation of complex numbers.	1. For Chapter 2- Students would be able to * Identify the Relation as a function and Domain, co-domain and range of a function,Compute the function for given inputs & representation of function as set-builder, roster forms and as a mapping, Types of function as identity function,modulus function, signum function, etc. & Graphs of a function. 2. For chapter 3 - Students would be able to * Understand the concepts of angles, their measurement, definition of trigonometric functions, Trigonometric functions of sum and difference of angles ,sum and product transformations ,apply the knowledge and understanding of trigonometric functions to prove identities and results and find the values of some angles and to draw the graphs of functions and understand the domain and ranges. 3. For chapter 4 .Write standard form of a complex	lecture Method, Guided practice followed by independent practice, Brain stroming and Student Teacher Interaction,case studies, chalkboard instruction,classroom discussion	1.Assignment-2,3,4 (NCERT level, HOTS Questions) 2. Oral Test of Formula (daily basis) 3.Class Test -2

Practical

2. TO verify that for two sets A and B, $n(A \times B) = pq$ and the total number of relations from A to B is ,

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Music	Practical implementation of Naad, Shruti, Swar, Saptak,Raag, Khayal	Students should be able to explain the terms with live demos on musical instruments etc	Students will be able to: 1. understand all terms effectively. 2. explain terms practically.	lecture methods, Quiz, test, live demos	class test n assignments.
Painting	2.Study and appreciation of following: Sculptures and Terra cottas: i. Dancing girl (Mohenjo-daro)Bronze, 10.5 x 5 x 2.5 cm.Circa 2500 B.C.(Collection: National Museum, New Delhi). ii. Male Torso(Harappa)Red lime Stone, 9.2 x 5.8 x 3 cms.Circa 2500 B.C.(Collection: National Museum, New Delhi) iii. Mother Goddess (Mohenjo-daro) terracotta, 22 x 8 x 5 c Circa2500 B.C. (Collection: National Museum, New Delhi).	The objective of including the history of Indian Art for the students is to familiarise them with the various styles and modes of art expressions from different parts of India. This would enrich their vision and enable them to appreciate and develop an aesthetic sensibility to enjoy the beauty of nature and life	*To develop an understanding of painting-composition (The use of the elements and the principles of painting-composition) *Knowledge of Metal -casting and different medium	Demonstration and Lecture Method	Practical Assignments-4-6
Practical	Still Life				
PHE	Chapter-2 Olympism	To develop olympic values and physical and mental well-being	Children develop dispositions for learning such as curiosity, cooperation, confidence, commitment, enthusiasm and persistence	lecture method and task learning method	Class test-2 - 3, Assignment-2 , 3
Practical	Practical no 1: SAI Khelo India test	To improve their motor skills	Wholesome development	Practical method and task learning	

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Physics	Chapter–1: Units and Measurements Chapter–3: Motion in a Plane	To make the learners: - Grasp the knowledge of various system of units and applications of dimensional analysis. - Understand the motion of a body in a plane and to study the trajectory, horizontal range, time of flight and maximum height attained by a projectile. - Aware of uniform circular motion and the concept of centripetal acceleration.	The learners will be able to: - List the various fundamental and supplementary units. - Derive formulae, convert one system of units into another and check the accuracy of a relation using dimensional analysis. - Define a projectile and derive relations for its trajectory, time of flight, maximum height and horizontal range. - Define centripetal acceleration and derive a relation for it. - Solve numericals based on above concepts.	Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching	Ch#3 Assignment 3,4 Ch#1 Assignment 5,6 Periodic Test 1
IIII V					
Accountancy	Chap - 8- Journal continued..... CHAPTER-9: LEDGER;	To enable students to understand about the various types of transations and their posting into ledger from Journal	Chap - 8- Journal - recording of varios transaction into journal Chap - 9- Posting of transations from journal into ledger.	Lecture method Question answer session Problem solving method Teaching through power point presenatation	Class test-3 and Assignment-3

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Artificial Intelligence	Unit-6 Critical and Creative Thinking (Skills) Unit 5: Introduction to Storytelling (Skills)	To build focus on research, prototyping, and testing products and services so as to find new ways to improve the product, service or design. 2. Students develop the understanding that there is more to Design thinking than just hardware designing. 3. To inculcate design thinking approach to enhance the student's creative confidence. Unit 5: Introduction to Storytelling 1. Students develop an understanding of benefits of powerful storytelling and its need. 2. Students appreciate the importance of knowing the audience of their story. 3. Students learn to create and deliver effective stories blended with numbers to engage the audience. 4. Students demonstrate ability to gain insights from data storytelling.	1. Underlining the importance of Prototype as a solution to user challenge. 2. Recognizing empathy to be a critical factor in developing creative solutions for the end users. 3. Applying multiple brainstorming techniques to find innovative solutions. Skill – Understanding the problem and being able to express the same Creativity – To be able to develop/innovate from design a solution Unit 5: Introduction to Storytelling 1.To get introduced to storytelling. 2. Building an impactful story using data for a set of audience. Skill – Imagination, mapping the plot into key events increasing memory retention. Application- Helping in creating	Lecture method Question answer session Teaching through power point presentation Demostration method	Class Test,Quiz,Data storytelling

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Biology	Chapter 3:Plant kingdom Chapter 4: Animal kingdom	Ch-3-Study of various thallophyta, byrophyta, pteridophyta, gymnosperms and angiosperms and their characteristics Ch-4-Study of various organisms on various basis, categorisation of chordates and non chordates their structure and appearance and occurrence	Ch-3-Structure of various lower plants, their evolution with respect to modern day plants Ch-4-Contrasting features of various phylum and their comparative study	lecture cum demonstration method , question answer method ,videos related to topics ,flipped classrooms ,blended learning, brainstorming ,case studies, chalkboard instruction,class projects,classroom discussion	Assignment 1,2,3 1.To prepare a herbarium Lab activities to demonstrate the various contrasting features of various organisms on the basis of the specimens provided
Practical	Expt -Study of specimens/models and slides with identifiable reasons				
B.st	Ch-2 Forms of Business Organisation contd Ch-3 Public,Private and Global enterprize	Ch-3 Public Sector and Private sector enterprises -Concepts,merits and limitations of all forms of business organizations Develop an understanding of Public sector and private sector enterprises.	Ch-3 Public Sector and Private sector enterprises -Understand the meaning of business with special reference to economic and non economic activities -Discuss the characteristics of business -understand the concept of business,profession and employment -appreciate the economic and social objectives of business understand the braod categories of business activities -industry and commerceUnderstand the concept of risk as special characteristic of business	Lecture method , Question answer method , Videos related to topics , Blended learning, Brainstorming , Chalkboard instruction, Classroom discussion	Oral Test,Group Discussions,Quizzes,Assignments

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Chemistry	UNIT 3: CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES UNIT 4 : CHEMICAL BONDING AND MOLECULAR STRUCTURE,	Unit III: 1.history of the development of periodic table 2.modern periodic law 3.periodic trends in properties of elements 4. Nomenclature of elements with Z>100 Unit IV: 1.Ionic nd covalent bond, bond parameters, Lewis's structure 2.VBT ,resonance, geometry 3.VSEPR theory, hybridization and shapes of molecules, 4.MOT , Hydrogen bond.	Unit III: students will be able to 1.Understand the Periodic Law 2.Name the elements with Z >100 3. Classify elements into s, p, d, f blocks and learn their characteristics; 3.Recognise the periodic trends properties 4.Use scientific vocabulary appropriately to communicate ideas UNIT 4: learner will able to 1.Understand Kössel-Lewis approach ,octet rule ,limitations, draw Lewis structures 2.Explain formation of different types of bonds 3.Describe VSEPR and predict the geometry 3.Explain VBT nd types of hybridisation 4.Describe MOT nd the concept of hydrogen bond.	Lecture method , Question answer method , Videos related to topics , Blended learning, Brainstorming , Chalkboard instruction, Classroom discussion	Assignment-3,4,Quiz,Class Test-3,4

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Computer Science	<p>Operators & Expressions, Flow of Control</p> <p>Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control</p> <ul style="list-style-type: none"> • 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 	<p>1.Learners will be able to comprehend the concept as well as need of using Statement Flow Control (Sequence & Conditional) in programming in Python</p> <p>2. Learners will be able to comprehend the concept as well as need of using Iterational Flow Control in programming in Python.</p> <p>Types of Iterational constructs:</p> <ol style="list-style-type: none"> 1. for loop 2. while loop 	<p>upon completion of this lesson, students would be able to</p> <ol style="list-style-type: none"> i) Learn about selection statements if, elif, if-elif-else and nested if. ii) Learn how to implement it in python. iii) Learn about the types of iteration statements while, for and nested loops. iv) Learn about break and continue-jump statements. v) Programming using selection and iteration statements. 	<p>Collaboration,Demonstration , Discussion</p>	<p>Worksheet-3,Quiz,Programming</p>
Practical	1.Write a program to print first 10 even numbers.				
Economics	<p>Introduction,Collection and Organisation, Presentation of Data and Measures of central tendency</p>	<p>To make students understand the Meaning of Average, Methods of calculating central tendencies: Mean,Median and Mode.</p>	<p>The students will be able to calculate average by different methods of calculating central tendencies. At the same time, students will be able to present the classified data in tabular, diagramatic and graphical form.</p>	<p>Lecture Method, Classroom discussion, Interactive Method and Simplified Notes</p>	<p>Assignment-3,4, Class test-3.</p>

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
English	Portrait of a Lady, A Photograph, Summer of the Beautiful White Horse, Writing Skills- Advertisement, Grammar- Transformation of Sentences, Editing, Omission, Gap Filling, Re-ordering of Sentences, Tenses	Understand the feelings of parents and grandparents, know that distancing due to circumstances never affects relations, show care and concern for animals, inculcate the values like honesty, faith, trust, share responsibility with the members of the family, respect the values and traditions of the family, to enable the students to care and share, love and affection, togetherness, change is the harsh and bitter reality of life, analyse that death is the inevitable end of all. understand, identify & relate to the various nuances of writing an advertisement.	The students will be able to accept and manage the situations with patience and tolerance, to know the sacrifices and support given by the grandparents in the family, inculcate values like honesty, trust, responsibility, deal with the temperament of different family members to create a bond, understand the importance of human relationship, understand that death is imminent and human life is mortal.	Using self made PPTs, video links, info from various sites, historical significance, NCERT and other self made notes	Class Tests (objective & subjective), Assignments
Activities	ALS- Speaking Skill Activity	To develop public speaking skills, to make enquiries meaningfully and adequately and to respond to enquiries for the purpose	Will be able to find improvement in Reading and Speaking skills and ability to gain confidence in public speaking platforms	Using group sessions of JAM on instantly given topics in class along with questions raised and answered from the topic.	Elocution/Declamation sessions in class

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Geography	<p>Bk 1. Fundamentals Ch 5 - Geomorphic Processes Ch 6 - Landforms and their evolution</p> <p>Ch 7 - Composition and Structure of Atmosphere Ch 8- Solar Radiation, Heat Balance and Temperature</p> <p>Bk 2 India Physical - Ch 3 -Drainage (Continued)</p>	<p>Bk 1 Fundamentals</p> <p>Ch 5. To understand various exogenic and endogenic processes responsible to bring changes in the configuration of the surface of the earth.</p> <p>Ch 6.To understand the nature of different erosional and depositional agents and landforms made by them.</p> <p>Ch7.To understand the composition and structure atmosphere.</p> <p>Ch 8.To understand the heating and cooling of the atmosphere and the resultant temperature distribution over the surface of the earth.</p>	<p>The students will be able to-</p> <p>Ch 5. Differentiate between geomorphic processes and geomorphic agents. 5.1Describe factors that affect soil formation. 5.3 Define the following terms: Exfoliation, Denudation, weathering</p> <p>6. Describe and draw various erosional and depositional landforms created by different agents.</p> <p>6.1. Students will be able to compare and analyse various landforms.</p> <p>6.2.Locate different landforms (mountains, plateaus, plains) on the outline map of the world.</p> <p>7.Describe the composition and characteristics of different layers of atmosphere.</p> <p>7.1. Correlate climate change with Sustainable Development Goals13: Climate Action.</p> <p>8.Differentiate between solar</p>	<p>1. Lecture Method 2.Interactive Method 3.Inquiry Method - Find out the advantages and disadvantages of different landforms from the internet. Students to learn about the three different modes of heat transfer—convection, conduction, radiation. 4.Draw a diagram to show the passage of solar radiation through the atmosphere. 5.Draw a neat and well labelled diagram to show different layers of the atmosphere and write the importance of each layer.</p>	<p>Oral Test Class test, Assignments, Periodic Test, Half Yearly, Annual Exam</p>
Practical	<p>Bk 3 - Map Scale</p>	<p>1.What are the different types of Scales 2.Importance of Scale</p>	<p>The students will be able to:</p> <p>1.learn about the uses of scales in different types of maps. 2.The importance of scales as an important element of Maps.</p>	<p>1.Lecture Method 2.Interactive Method</p>	

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Home Sci.	Ch.4- Management of Resources	Ch 4 Discuss concept of resources, various resources, their characteristics, need of management, and management process	Ch 4 They will be able to use the resources judiciously and manage the resources at their own level.	lecture method	Assignment -4
Practical	3. List and discuss 4-5 areas of agreement and disagreement with a) Mother b) Father c) Siblings/ Friends d) Teacher				
History	CH - 5 NOMADIC EMPIRES	Familiarize the learner with the varieties of nomadic society and their institutions, discuss whether state formation is possible in nomadic societies	Identify the living patterns of nomadic pastoralist family nomadic pastoralist society. • Trace the rise and growth of Genghis Khan in order to understand him as an oceanic ruler. • Analyze socio-political and economic changes during the period of the descendants of Genghis Khan.	1.Lecture Method 2.Demonstration method 3.Picture Interpretation	Class test 2 .3 & Remedial assignment 2 & 3; Quiz via kahoot
Practical	Poster Making				
Hindi	कबीर (1),मोरा (1)प्रेमचंद, कृष्णा सोबती एवं जनसंचार माध्यम शब्दकोश : विवेचना	मानव-मूल्यों और जोवन-मूल्यों को परख प्राचीन कारीगरों की पाक कला एवं मीडिया का समस्त ज्ञान	सुंदर एवं स्वस्थ समाज का निर्माण कर सकेंगे । पाक कला द्वारा रचनात्मक शक्ति का विकास । मीडिया द्वारा जीवन में जागरूकता शिक्षा एवं सूचना प्राप्त करना ।	अनेक ऐतिहासिक एवं पौराणिक कथाओं का श्रवण।विभिन्न माध्यमों के समचारों का पठन	अभ्यास कार्य ,पारेचो एवं प्रश्नोत्तरी
Activities	श्रवण एवं वाचन कोशल				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Maths	1. Chapter 5 -Linear Inequalities 2.Chapter 6-Permutations and Combinations	To make the learners: 1.Understand the concept of linear inequalities, gain Knowledge fromthe real-life examples and apply the knowledge to solve the questions based on it 2.Number of ways in which a particular combination or arrangement can be done.	The students will be able to 1. Understanding of different types of inequalities, method of solving the linear inequalities and representing their solutions on the number line and also represent the solution on the graph paper and are able to find the feasible region. 2. Develop the ideas of permutations and combinations to daily life situations of arranging and grouping the objects	lecture Method, Guided practice followed by independent practice, Brain storming and Student Teacher Interaction,case studies, chalkboard instruction,classroom discussion	1.Assignment-5,6 (NCERT level, HOTS Questions) 2. Oral Test of Formula (daily basis) 3.Class Test-3
Practical	5. To determine the solution of region of give linear inequality graphically				
Music	> Taals along with taal Notation (Ekgun, Dugun, Chaugun) : Teentaal, Ektaal > Critical Study and Writing in Notation the compositions of raag Bihag, Bhairavi and recognition of raag from given phrases of Swars	1. To promote the artistic integrity through the composition and performance. 2. To develop the creative understanding of music.	Will develop the ability --- 1. to develop and express music ideas. 2. to sing rhythmically, in tune, in harmony and through notations. 3. to sing expressively in a variety of styles.	Singing practice with proper breathing and rhythm. Creative music (singing) class through live music n instruments. Engaging students by singing bollywood songs also, based on raagas.	Making video of their practice session. Assignments Class Tests
Practical	Practice of taal notation on hand beat of Teentaal and Ektaal with Ekgun, Dugun, Chaugun.				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Painting	<p>2.Study and appreciation of following: Sculptures and Terra cottas:contd.....</p> <p>ii. Male Torso(Harappa)Red lime Stone, 9.2 x 5.8 x 3 cms.Circa 2500 B.C.(Collection: National Museum, New Delhi)</p> <p>iii. Mother Goddess (Mohenjo-daro) terracotta, 22 x 8 x 5 c Circa2500 B.C. (Collection: National Museum, New Delhi).</p> <p>3 Study and appreciation of following Seal:</p> <p>i. Bull (Mohenjo-daro)Stone (Steatite), 2.5 x 2.5 x 1.4 cm. Circa 2500 B.C.(Collection: National Museum, New Delhi).</p> <p>Decoration on earthen wares: Painted earthen-ware (Jar),Mohenjo-daro (Collection: National Museum, New Delhi).</p>	<p>The objective of including the history of Indian Art for the students is to familiarise them with the various styles and modes of art expressions from different parts of India. This would enrich their vision and enable them to appreciate and develop an aesthetic sensibility to enjoy the beauty of nature and life</p>	<p>*To develop an understanding of painting-composition (The use of the elements and the principles of painting-composition)</p> <p>*Knowledge of Metal -casting and different medium</p>	<p>Demonstration and Lecture Method</p>	<p>Practical Assignments-4-6</p>
Practical	Still Life				
PHE	Unit :-3 Yoga	To develop olympic values and physical and mental well-being	Children develop dispositions for learning such as curiosity, cooperation, confidence, commitment, enthusiasm and persistence	lecture method and task learning method	Class test- 3, Assignment- 3
Practical	Practical no 1: SAI Khelo India test	To improve their motor skills	Wholesome development	Practical method and task learning	Endurance (600m)

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Physics	Chapter–4: Laws of Motion Chapter -5: Work, Energy and Power	To make the learners: - Understand the concept of Forces, Momentum and Newton's laws of motion. - Aware of the concept of friction, its types, calculation of friction, advantages and disadvantages of friction - Gain knowledge of Dynamics of circular motion, banking of roads and its significance - Comprehend the concept of vertical circular motion - Understand the concept of Work, Energy, Power and its application in our daily life. - Grasp the concept of collisions and its types	The learners will be able to : - State Newton's laws of motion and give its examples. - Prove that the second law is the real law of motion - Solve numericals based on Newton's laws of motion. - Define friction, its types, and list its advantages and disadvantages - Give the need of banking of roads and calculate the maximum velocity with which a body can negotiate a circular turn. - Define work, energy and power, give its formula and units. - Differentiate between conservative and non conservative forces and give its examples - State and derive Work - Energy theorem and solve questions based on it. - Define elastic and inelastic collisions and derive a formula for the velocities after collision of two bodies.	Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching	<i>Ch#4 Assignment 7,8</i> <i>Ch#5 Assignment 9,10</i> <i>Periodic Test 2</i>

Practical EXPT#1: To determine the diameter and volume of a spherical body using vernier calliper.

August

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Accountancy	CHAPTER - 10 : CASH BOOK CHAPTER-13 : TRIAL BALANCE CHAPTER 11:OTHER SUBSIDIARY BOOKS	To Make students about different types of Voucher, Journal entries, Ledger and Trial Balance	Chapter 10: concept of cash book and how to prepare various types of cash book including petty cash book. Chapter 13: To understand the objectives, meaning and preparation of Trial Balance. Chapter11: To understand recording into other subsidiary books.	Lecture method ,Question answer session problem solving method Teaching through power point presenatation	Assignment-3 Class Test-3

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Artificial Intelligence	Unit 7 Data Analysis (Computational thinking) (Skills) Unit 4: AI Values (Ethical decision making) (Values) Unit-3:Maths For AI (Recap) (Knowledge)	Unit-7 Data Analysis 1. Demonstrate an understanding of data analysis and statistical concepts. 2. Recognise the various types of structured data – string, date, etc 3. Illustrate an understanding of various statistical concepts like mean, median, mode, etc. Unit-4 AI values Issues and Concerns around AI <ul style="list-style-type: none"> • AI and Ethical Concerns • AI and Bias • AI: Ethics, Bias, and Trust • Employment and AI Unit-3 Maths for AI Introduction to matrices (Recap) <ul style="list-style-type: none"> • Introduction to set theory (Recap) <ul style="list-style-type: none"> o Introduction to data table joins • Simple statistical concepts • Visual representation of data, bar graph, histogram, frequency bins, scatter plots, etc. • With co-ordinates and graphs introduction to dimensionality of data • Simple linear equation <ul style="list-style-type: none"> o Least square method of regression 	Unit -7 Data Analysis 1. Comprehension and demonstration of data management skills. 2. Students will demonstrate proficiency in applying the knowledge in statistical analysis of data. Knowledge – Types of structured data, statistical principals – frequency tables, mean, median, mode, range, etc. Application – Representing data in terms of graphs, statistical models Synthesis – To be able to represent a simple problem in terms of numbers Unit-4 AI values Knowledge – Ethics, Bias, Impacts of bias on society Application – Spot issue in data, Make arguments, Apply rules Unit 3 -Maths for AI	Lecture method ,Question answer session problem solving method Teaching through power point presenstation	Quiz,Practical Questions based on unit-7 ,4,3

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Biology	Chapter 5 Morphology of flowering plants Chapter-6:Anatomy of flowering plants Chapter 7 Structural organisation in animals Chapter 8 Cell the unit of life	<p>Ch-5-Knowledge about flowering plants To study the various morphological aspects of plants. Study of root, shoot, leaves, their region, modifications and uses. Parts of flower, floral formula, structure of seed</p> <p>Ch-6-Structure of various types of tissues, concept of simple and permanent tissues, various tissue system, Anatomy of dicot and monocot root, stem and leaf, Secondary growth in plants</p> <p>Ch-7various tissue systems in animal s and their function Understanding</p> <p>Ch-8-Introduction about cell, its discovery, and its various cell organelle, the roles of various cell organelle, and cell theory</p> <p>Ch-9-Study of macro and micromolecules, structure of carbohydrates, proteins, fats and nucleic acids, concept of enzyme action.</p>	<p>Ch-5Dissection of flowers to understand floral description and floral formula.Family: Solanaceae or Liliaceae</p> <p>Ch-6-Demonstration of structure Animal tissues Online.Display of types of tissue with concept mapping . Brain Storming sessions with hands on activities.</p> <p>Ch-7-To understand cell as basic structural and functional unit of life.</p> <p>Ch-8-To anayle and draw structure and function of different cell organelles.</p> <p>To study different Bio molecules, their structure and function. To comprehend the new terms and process of cell division To understand the steps and phases of Mitosis and Meiosis</p>	lecture cum demonstration method , question answer method ,videos related to topics ,flipped classrooms ,blended learning, brainstorming ,case studies, chalkboard instruction,class projects,classroom discussion	Aisgnment-4 Class tests,work sheetson floral terminology,identification of tissues based on their function and shape and structure Quiz activity on cell organeels and their function
Practical	Experiments #:study and description of available common flowers from families				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
B.st	Ch-3 Public ,Private and Global enterprize contd... Ch-4 Business services Ch-5 Emerging modes of Business	Ch-4 Business services-meaning and types ,insurance,principles,types,life,health,fire and marine insurance,concept Ch-5 Business concept,scope and benefits	Ch-4 Understanding the meaning and types of business service ,develop and understanding of different types of bank account,recall the concepts of insurance and understands principles of insurance Discuss the meaning of different types of insurance. Ch-5 Meaning of e-business. Discuss the scope of e business Appropraite the benefits of e business,B2B,C2C,B2C Distinguish e-business from traditional business	Lecture method , Question answer method , Videos related to topics , Blended learning, Brainstorming , Chalkboard instruction, Classroom discussion	Oral test,Group discussion,Quizziz,Assignmnets-3,4,5
Practical	History of Stock Exchange of India				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Chemistry	Unit-4 :Contd UNIT 7: REDOX REACTIONS UNIT 8: Organic Chemistry -Some Basic Principles and Techniques	Unit 7: Redox Reactions 1. Concept of redox reactions, oxidation number 2. balancing redox reactions 3. applications of redox reactions. Unit 8: Organic Chemistry -Some Basic Principles and Techniques Unit 8: Organic Chemistry-Some Basic Principles and Techniques 1. Classification and IUPAC nomenclature 2. Electronic displacements in a covalent bond 3. Homolytic and heterolytic fission 4. Electrophiles and nucleophiles 5. Methods of purification, qualitative and quantitative analysis	STUDENTS will be able to 1. Understand reasons for tetravalence and shapes of organic molecules 2. Classify and name organic compounds; 3. Understand the concept of organic reaction mechanism 4. Explain the influence of electronic displacements on structure and reactivity 5. Learn the techniques of purification of organic compounds; 6. Write the chemical reactions involved in the qualitative analysis 7. Understand the principles involved in quantitative analysis	Lecture method , Question answer method , Videos related to topics , Blended learning, Brainstorming , Chalkboard instruction, Classroom discussion	Assignmnet-4, Class Test-5

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Computer Science	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()	<ol style="list-style-type: none"> 1.Understands the basic concepts of python programming involving Strings & manipulation of Strings in Python. 2.Acquainted with various String functions & their use. 3.Familiar with various programming syntax. 4.Identifies type of programming paradigm 5.Applies the concept practically 	<ol style="list-style-type: none"> 1.Students will able to learn what a string is. 2. They will know different types of string operations which can be performed on strings. 3. Children will learn how to traverse a string in different ways. 4. They will learn about different methods and built in functions of strings. 5. They will learn how to handle strings. 	Demonstration,Discussion	Worksheet-4,Programming,Quiz
Practical	3. Write program to count number of digits present in string.				
Economics	Correlation , Index Number. PART B : MICRO ECONOMICS : INTRODUCTION	To enable the studentst to understand meaning, types & various methods of estimating Correlation. Meaning ,uses and estimation of Index Number. To make students understand the meaning, concept of economy and types, Central problems & Production Possibility Curve.	The students will have a clear understanding of the concept and methods of estimating Correlation and Index Number. The students could understand the concept of economy and other related aspects.	Lecture Method, Classroom discussion, Interactive Method and Simplified Notes.	Assignment-5,6 Class test-4

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
English	We're Not Afraid to Die, Laburnum Top, The Address	To enable the students to imbibe perseverance and patience, trust, self reliance and self confidence, positivity, team work, know that adventures impart a great lesson of life, understand that misfortunes are bound to be converted into happiness if one has firm belief in God and himself, admire nature and its bounty, respect the feelings of others, understand that the objects linked in memory lose their importance, when cut off from them, accept the situation and be optimistic in life, understand the family bonding and relations, show sympathetic attitude to war victims or the sufferers, learn the style & format of speech writing, note making & to comprehend the usage of summarising the same.	The students will be able to learn the parts of ship and different terms/words related to voyage, realise that hazardous experience teaches one to face the adverse circumstances with courage, understand that presence of mind along with the practical knowledge is important to take instant decisions, know that determination and self-confidence can conquer adverse circumstances, inculcate values of sharing, caring and responsible attitude towards others, know about the poet and his contribution, enjoy beauty of nature, be optimistic in difficult situations, understand that war destroys life and peace restores everything, show sympathetic attitude to war victims.	Using self made PPTs, video links, info from various sites, historical significance, NCERT and other self made notes	Class Tests (objective & subjective), Assignments

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Practical	ALS- Speaking Skill Activity	To develop public speaking skills, to make enquiries meaningfully and adequately and to respond to enquiries for the purpose	Will be able to find improvement in Reading and Speaking skills and ability to gain confidence in public speaking platforms	Using group sessions of JAM on instantly given topics in class along with questions raised and answered from the topic.	Elocution/Declamation sessions in class

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Geography	<p>Bk 1 . Fundamental Ch 9. Atmospheric circulation Ch 10. Water in Atmosphere Ch 11. World Climate and Climate change Ch 12. Water (Oceans)</p> <p>BK 2 : India Physical Ch 4 -Climate</p>	<p>Bk 1 Ch 9. To understand the general atmospheric circulation and the forces that control the circulation.9.1 To understand the meaning of various terms related to the topic and to know the causes and consequences of air circulation. Ch 10.To understand continuous exchange of water between the atmosphere, the oceans and the continents through the processes of evaporation, transpiration, condensation and precipitation. Ch 11. To define three broad approaches that have been adopted for classifying climate – Empirical Classification, Genetic Classification, and Applied Classification. Ch 12.To explain water cycle and summarize how an increase in demand for water leads to a water crisis.</p> <p>12.1 To illustrate major and minor ocean floor features. (midoceanic ridges, seamounts, submarine canyons, guyots, and atolls) Bk2 Ch 4 - To understand Indian monsoon:and its mechanism.</p> <p>4.1- To list the weather conditions that prevail during different seasons.</p>	<p>The students will be able to:</p> <p>Ch9. Describe the permanent pressure belts and the prevailing winds.</p> <p>9.1. Explain different types of winds. 9.2 Differentiate between tropical and extra tropical cyclones. 9.3 Realize how global warming is result of atmospheric pollution and how it can be minimised if not prevented.</p> <p>Ch10. Explain the process of precipitation and its different forms.</p> <p>10.1 Analyse the variation in the distribution of rainfall in the world.</p> <p>Ch11. The topic can be presented in class through PPT or Project Work after conducting extensive and guided research by students.</p> <p>Ch12. Describe the basic processes involved in</p>	<p>1.Lecture Method2.Interactive Method - Discussion on the causes and effects of global warming.3.Blended Learning - Students may read various theories and articles related to atmospheric circulation and weather system. Students are advised to watch live videos related to the topic winds: 4.Experiential Learning - On a world map mark and label areas of heavy, moderate, low and inadequate rainfall. 5.Draw a diagram to show major and minor features of ocean floor. 6.Students to mark and label the hottest, coldest, driest and wettest place in India. (on a political map) 7 Students should be made to understand Air Quality Index.</p>	<p>Oral Test Class Test Assignments Periodic Test Yearly Exam</p> <p>Half Annual</p>
Practical	Map Scale (Continued)				
Hindi	कायोलयाँ पत्र, निबन्ध लेखन एवं अपाठित, सत्यजीतराय, बालमुकुंद भारतीय गायिकाओं में बेजोड: लता मंगेशकर	लोक कलाओं, फिल्मों, मोण और सुर-साधना का ज्ञान। व्यंग्य शैली से परिचय	एकाग्रता एवं मनोरंजन, फिल्म तकनीक का ज्ञान	विभिन्न उदाहरणों द्वारा ज्ञान। संगीत श्रवण	अभ्यास कार्य एवं संगीत श्रवण
Practical	श्रवण एवं वाचन कोशल				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
History	CH - 6 THE THREE ORDERS CH - 7 CHANGING CULTURAL TRADITIONS CH - 10 DISPLACING INDIGENOUS PEOPLE PROJECT WORK	<p>*Familiarize the learners with the nature of the economy and society of this period and the changes within them,</p> <p>*Show how the debate on the decline of feudalism helps in understanding processes of transition *Explore the intellectual trends in the period,</p> <p>*Familiarize students with the paintings and buildings of the period, introduce the debate around the idea of 'renaissance' *Sensitize students to the processes of displacements that accompanied the development of America and Australia *Understand the implications of such processes for the displaced populations</p>	<ul style="list-style-type: none"> ● Explain the myriad aspects of feudalism with special reference to first,second, third and fourth order of the society. ● Relate between ancient slavery and serfdom ● Assess the 14th century crisis and rise of the nation states. ● Analyze the causes, events, and effects of the Renaissance,Reformation, Scientific Revolution, and Age of Exploration. ● Relate the different facets of Italian cities to understand the characteristics of Renaissance Humanism and Realism. ● Compare and contrast the condition of women in the Renaissance period. ● Recognize major influences on the architectural, artistic, and literary developments in order to understand the facades of Renaissance. ● Critical analysis of the Roman Catholic Church and Protestantism 	Lecture method, story-telling method, virtual tour method, ppt, project based learning, Discussion method	Class test 4, 5 & 6 & remedial assignment 4, 5 & 6
Practical	Mindmap or flowchart making				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Home Sci.	Ch.-5 Fabric Around us Ch-6 Media and Communication Technology	Ch 5 Discuss diversity in fabrics,classification of fabrics,concept of yarn making and fabric making ,properties of fibres and selection of fabrics. Ch 6 Discuss Concept of communication, significance of communication, types of communication, process of communication,classification and functions of media and various communication technologies.	Ch 5 Students will be able to know the types of fibres around them , their uses , characteristics and fabric construction Ch 6 They will able to understand the use of different communication means and their effectiveness in their day today life.	lecture method	Assignment-5,6
Practical	5. a) Record one day's activities relating to time use and work				
Maths	1. Chapter 7 - Binomial Theorem 2. Chapter 8 - Sequences and Series 3. 1.Chapter 9- Straight Lines	To make the learners: 1.To State and Prove binomial theorem for positive index,expansion of binomial. 2. To understand the Sequences and Series, distinguish Sequences and Series.A.P. & G.P. and to evaluate General term of AP/ Sum to n-terms of AP/ Arithmetic mean, to understand the relationship between A.M and G.M. 3. Slope of a line and angle between two lines. Various forms of equations of a line, Distance of a point from a line	The Students will be able 1. To find expansion of binomial. 2.To determine general term of series in AP and GP.	lecture Method, Guided practice followed by independent practice, Brainstroming and Student Teacher Interaction,case studies, chalkboard instruction,classroom discussion	1.Assignment-7,8 (NCERT level, HOTS Questions) 2. Oral Test of Formula (daily basis) 3.Class Test -4
Practical	7.To construct a pascal's Triangle and to write binomial expansion for a given positive integral exponent.				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Music	> Brief Study of Dhrupad and Tarana > Life Sketch and contribution of V. N. Bhatkhande	1. to achieve proficiency and understanding of the terms Dhrupad and Dhamar. 2. to understand the life story of maestro and his contribution in the field of music. 3. to be an effective learner.	Should be able to: 1. explain the term Dhrupad and Tarana. 2. explain and write the life sketch of musician. 3. know the difference between these two. 4. understand the singing styles of both.	Lecture, Discussion and Demonstration of singing style of Dhrupad and Tarana	Oral Test,Class Test
Practical	Practice of Chautaal On hand beat with Ekgun, Dugun, Chaugun.				
Painting	Unit 2 Buddhist, Jain and Hindu Art (3rd century B.C. to 8th century A.D.) 3. Introduction to Ajanta Location Period, No of caves, Chaitya and Vihara, paintings and sculptures, subject matter and technique etc.	The objective is to acquainte with brief glimpses of the development of Indian visual art as are required for concept formation.	To express the different feelings and moods of life and nature in lines, forms and colours.	Discussion and Lecture Method	Assignments, Class Test
Practical	Revision				
PHE	Unit-4:-Physical education and sports for CWSN Unit-5:-Physical fitness,Health and Wellness	Learners will be able to to understand about adaptive physical education and fitness,health & wellness	Provision of quality education and enhancing learning outcomes of students	lecture method and demonstration method	Assignments, Class Test
Practical	Practical no 1: SAI Khelo India test	To Enhance motor development	Strength	Practical method	

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Physics	Chapter–6: System of Particles and Rotational Motion Chapter–7: Gravitation	To make the learners understand : - The concept of rotational dynamics, different parameters of rotating body (Torque, Angular momentum, moment of inertia) and applying different theorems to find the moment of inertia of simple geometrical objects. -Concept of gravitational laws, laws of planetary motion and variation of acceleration due to gravity above and below the surface of earth, gravitational potential, escape velocity and orbital velocity of a satellite.	The learners will be able to : - Define centre of mass and derive an expression for it. - Derive equations of motion for rotating body. - Define torque, angular momentum, moment of inertia, give their formulae and solve numericals based on it. - Analyse the variation of acceleration due to gravity with height and depth from the surface of the earth. - State and prove Kepler's laws of planetary motion. - Define and derive expressions for gravitational potential, escape velocity and orbital velocity of a satellite.	Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching	Ch#6 Assignment 11,12 Ch#7 Assignment 13,14

Practical EXPT#3: To determine the diameter and volume of a cylindrical body using a screw gauge.

September

Accountancy	CHAPTER 12: GST CHAPTER-13: BANK RECONCILIATION STATEMENT	To make students understand about special purpose books and Bank Reconciliation Statement	Chap - 12- Concept of GST and its characteristics, Chap -13- understanding of Pass book and cash book, and to reconciliation of their balances	Lecture method ,Question answer session ,Problem solving method Teaching through power point presenatation	Assignment-5 Class Test-5
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SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Biology	Chapter-9:Bio molecules Chapter:10: Cell divisions -Mitosis and Meiosis Chapter13: Photosynthesis in Higher plants	Ch-9-Study of macro and micromolecules, structure of carbohydrates, proteins, fats and nucleic acids, concept of enzyme action. Ch-10-Various phases of cell cycle, phases of cell division, mitosis and meiosis Ch-13.Photosynthesis and its role, concept of light and dark reactions,TCA cycle,C3 and C4 pathways	Ch-9-Learning about the various micro and macro molecules and their role To study different Bio molecules, their structure and function ch-10-Importance of various phases of cell division. To comprehend the new terms and process of cell division To understand the steps and phases of Mitosis and Meiosis Ch-13-Concept of photosynthesis and its applications To make a chart showing differences between light and dark reactions Class test on Light reactions Drawing various cycles and discussion about enzyme mediated processes.	Interactive discussion on discovery of cell, osmosis, plasmolysis and comparison between prokaryotic and Eukaryotic cell. Making diagrams of plant cell animal cell with visualization of organelles structure and their function.	Assignments 5,6,7 Class test on TCA cycle Quiz on differences between C3 and C4 plants
Practical	EXpt:-Study of plasmolysis in epidermal peels				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
B.st	Ch-5 Emerging Modes of business contd. Ch-6 Social Responsibility of Business Ethics Ch-7 Source of Business Finance	To make students understand Chap 6- Responsibility towards owners, investors,consumers, employees, government and community. Role of business in environment protection ,Business Ethics - Concept and Elements Chap 7- Concept of business finance Owners' funds- equity shares, preferences share, retained earnings Borrowed funds: debentures and bonds, loan from financial institution and commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD).	Chap 6- Identify the social responsibility towards different interest group.Appreciate the role of business in environment protection. State the concept of business ethics.Describe the elements of business ethics. Chap 7- State the meaning, nature and importance of business finance. Classify the various sources of funds into owners' funds. State the meaning of owners' funds. State the meaning of borrowed funds. Distinguish between owners' funds and borrowed funds.	Lecture method Question answer session problem solving method Teaching through power point presenation	Oral Tests , Group Discussions Quizzes Assignment-4

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Chemistry	UNIT 8 (Contd) , UNIT 9 : HYDROCARBONS	1.Classification of Hydrocarbons 2.Alkanes ,alkenes , alkynes- Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis. 3.Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: 4.Carcinogenicity and toxicity.	LEARNERS will be able to 1. Nomenclature 2.structures of isomers of alkanes, alkenes, alkynes and aromatic hydrocarbons 3. learn about various methods of preparation of hydrocarbons 4.distinguish between alkanes, alkenes, alkynes and aromatic hydrocarbons 5.draw and differentiate between various conformations of ethane 6.predict the formation of the addition products of unsymmetrical alkenes and alkynes 7.comprehend the structure of benzene 8.predict the directive influence of substituents in benzene 9.learn about carcinogenicity and toxicity.	Lecture method , Question answer method , Videos related to topics , Blended learning, Brainstorming , Chalkboard instruction, Classroom discussion	Assignment-6,7 Class test Objective -6,7 Class test Subjective -6,7 Quiz-6,7

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Computer Science	<p>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</p> <ul style="list-style-type: none"> • 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, maximum, mean of values 	<p>1. Student will be able to review the Concept and Operations on Lists: Creation, Traversal, Concatenation, Repetition, Searching, Sorting, Maximum, Minimum, Reverse,Slicing</p> <p>2.Student will be able to understand the Concept of Tuples Understand: Concatination ,Replication,Membership operations,Various Built_In functions,Sorting,Index values etc. ,Slicing(subset)</p>	<p>1.Students will able to learn define and differntiate a List and tuple.</p> <p>2. They will know different types of operations which can be performed on Lists and tuples.</p> <p>3. Students will learn how to traverse a List in different ways and tuples.</p> <p>4. They will learn about different methods and built in functions of List and tuples.</p> <p>5. They will learn how to handle List and tuples.</p>	Demonstration,Collaboration ,Discussion	Programming,Debugging,Wor ksheets-4
Practical	1.Write a Python program to find the list of words that are longer than n from a given list of words.				
Economics	Consumer's Equilibrium and demand	To make the students learn the different measures of utility, demand and related concepts.	The students could understand the concept of utility and demand & could relate it with real life situations.	Lecture Method, Classroom discussion, Interactive Method and Simplified Notes.	Assignment-7,8, Class test-6.

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
English	Discovering Tut, Voice of the Rain, Mother's Day	To enable the students to understand rain as the life giving force on the earth, understand the need of sustainable development, discuss methods for safeguarding the environment, develop aesthetic sense and appreciate bounty of nature, respect other's beliefs, customs, rituals, develop inquisitiveness towards historical events and people, imbibe values like care and concern, empathy, compassion, respect for elders, belongingness and tolerance, realise the worth of sacrifice and struggles of parents for children, learn to write debates on various issues.	The students will be able to satisfy their curiosity about King Tut's mummy, know about the archaeology and advancement in technologies, inculcate values like care and concern to save the environment, realise the importance of saving natural resources, understand the process of sustainable development, strengthen the family bonding with sharing and solving problems, imbibe values like care and concern, empathy, compassion, respect for elders, belongingness and tolerance.	Using self made PPTs, video links, info from various sites, historical significance, NCERT and other self made notes	Class Tests (objective & subjective), Assignments
Activities	ALS- Listening Skill Activity	Take organized notes on lectures, talks and listening passages, listen to news bulletins and to develop the ability to discuss informally a wide ranging issues like current national and international affairs, sports, business, etc.	Will be able to find improvement in Listening, Reading and Speaking skills and ability to gain confidence in public speaking platforms, take notes and answer questions after listening to audio clips.	Reading passages, listening to audio tapes	Listening skill activities

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Geography	BK 1 (Fundamentals) Ch-13 Movement of Ocean Water Ch-14 Biodiversity and conservation BK 2 : India Physical Ch 4. Climate (Continued)	Ch-13 To define and differentiate between tides and currents.13.1.To describe the formation of sea waves. 13.2. To analyse the importance of tides. 14.To explain the three major realms of the environment. 14.1.To explain the three major realms of the environment. 14.2.To explain the concept of ecology. 14.3.To analyse the features and types of aquatic ecosystems and biomes, with examples.	The Student will be able to- 13. Explain tides, currents and waves. 13.1 Analyse the economic significance of tides. 13.2 Describe ocean currents and the forces that influence them 14. Describe the characteristic features of the biosphere. 14.1 Define ecology and related terms and explain the need for ecological balance. 14.2 Recognize the abiotic and biotic factors of the ecosystem. 14.3 To compare and contrast the features of five major biomes of the world forest, grassland, desert, aquatic, and altitudinal.	1. Lecture Method 2. Interactive Method 3. Inquiry- Based Method - Make a list of flora and fauna found in your surroundings and make a scrap book containing information and pictures of at least ten species. 4.Draw a diagram of spring and neap tides. 5.Mark and label the major warm and cold currents on an outline world map. (As per the given map list)	Oral Test Class Test Assignments Periodic Test Exam Annual
Practical	BK 3 Latitude and Longitude Ch -3	1.To understand the importance of latitude and longitude. 2.Understand the process of calculating the time in different time zones.	1.Identify different directions and locations on the map. 2. They will learn to calculate time.	1.Inquiry based. 2.Hands on experience on map 3.Vicarious learning	
Hindi	भवानी प्रसाद मिश्र,त्रिलोचन एवशेखर जोशी पत्रकारिता के विविध आयाम एवं रचनात्मक एवं व्यावहारिक लेखन	देश प्रेम का भाव जगाना , वर्ण व्यवस्था के प्रति जागरूक करना	स्वदेश के गौरव गान एवसवेस्व समर्पण स्वभिमान जागृत ,भेदभाव से परे समाज द्वारा व्यापक व्यक्तित्व कानिर्माण	अनंत उदाहरणों को व्याख्या	स्वरोचित लेखन,अभ्यास कार्य
Activities	पाटफोलियो				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
History	CH -11 PATHS TO MODERNIZATION	Make students aware that transformation in the modern world takes many different forms, Show how notions like 'modernization' need to be critically assessed	<ul style="list-style-type: none"> ● Deduce the histories of China and Japan from the phase of imperialism to modernization ● Explore the Japanese political, cultural and economic system prior to and after the Meiji Restoration. ● Analyze the domains of Japanese nationalism prior and after the Second World War. ● Summarize the nationalist upsurge in China from Dr Sun Yet Sen to Mao Ze Dong to understand the era of communism. ● To analyze the Chinese path to modernization under Deng Xio Ping and Zhou en Lai in order to understand the transformation from rigid communism to liberal socialism. 	Inquiry-based learning, flipped classroom teaching, project-based learning, collaborative learning	Class test 7 & Remedial assignment 7
Practical	Brochure Making				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Home Sci.	Unit III: Understanding family, community and society Ch. - Concerns and needs in diverse contexts: a. ch 7 Nutrition, Health and Hygiene <u>b.ch</u> 8 Resources Availability and Management	ch 7 describe Importance of health and its dimensions , interrelationship of nutrition and health,consequences of overnutrition and undernutrition, selecting healthy food choices, interrelationship between nutrition and diseases, importance of hygiene and sanitation for preventing food borne diseases. ch 8 Describe time and space as an important resource, need of managing these, ways of managing these resources, tools in time management,explain principles of planning space	ch 7 the students will get aware of role of hygiene in relation with nutrition and health ch 8 They will be able to take appropriate decision at right time	lecture method	Assignment-7,8, Class test-3
Practical	7.Plan a budget for a given situation/purpose.				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Maths	1.Chapter 9- Straight Lines(contd.) 2. Chapter 10-Conic Sections 3. Chapter 11- Introduction to Three Dimensional Geometry	To make the learners: 1.Understand the concept of formation of conics 2.formation of Octant, coordinate planes in three dimensions. Distance between two points.	1. The students will be able to To find Slope of line,calculate angle between two line, To use various forms of equation of line. To calculate distance between 2 parallel lines. 2.To find equation of circle in various forms,understand the geometry of conic sections, equation of parabola, ellipse,hyperbola. 3.develops strategies of locating a point in three dimensions based on the concepts of two-dimensional coordinate geometry, to find the coordinate points according to their quadrant & to find the distance between the points using distance formula and also to use section formula.	lecture Method, Guided practice followed by independent practice, Brainstroming and Student Teacher Interaction,case studies, chalkboard instruction,classroom discussion	1.Assignment-9,10,11 (NCERT level, HOTS Questions) 2. Oral Test of Formula (daily basis) 3.Class Test-5

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Music	> Brief Study of Dhrupad and Tarana > Life Sketch and contribution of V. N. Bhatkhande	1. to achieve proficiency and understanding of Dhrupad and Dhamar. 2. to understand the life story of maestro and his contribution. 3. to be an effective learner.	Should be able to: 1. explain the term Dhrupad and Tarana 2. explain and write the life sketch of musician. 3. know the difference between these two. 4. understand the singing styles of both.	Lecture, Discussion and Demonstration of singing styles of Dhrupad and Tarana	Assignment-4,Class tests (Objective and Subjective tests)-4 Quiz
Practical	Practice of Raag Bihag and Bhairvi Drut Khayal (singing)				
Painting	Unit 2 Buddhist, Jain and Hindu Art (3rd century B.C. to 8th century A.D.) 3. Introduction to Ajanta Location Period, No of caves, Chaitya and Vihara, paintings and sculptures, subject matter and technique etc.	The objective is to acquainte with brief glimpses of the development of Indian visual art as are required for concept formation.	To express the different feelings and moods of life and nature in lines, forms and colours.	Discussion and Lecture Method	Practical Assignmnet-10-12
Practical	Revision				
PHE	Unit-6:-Test ,Measurement &Evaluation	To make students understand about test measurement and evaluation	Help in evaluating the learners ability enhancing sports performance	lecture method and demonstration method	Class test-6 and Assignment-6
Practical	Practical no 1: SAI Khelo India test	To enhance motor ability	Fitness	Practical method	BMI and sit & reach test

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Physics	Chapter–8: Mechanical Properties of Solids Chapter–9: Mechanical Properties of Fluids	To make the learners understand : - The concept of elasticity and rigidity of a body with stress- strain analysis and applying it to solve real life problems. - The concept of Fluid dynamics and its applications in our daily life. -The phenomena of Surface tension,Viscosity, types of flows, capillarity and its applications	Learners will be able to: - Define stress, strain and modulus of elasticity, give its units and formula. - Show the variation of Stress vs Strain and determine whether a given material is ductile or fragile based on the stress strain graph. - State Pascal's Law and explain its applications (Hydraulic lift) - Define surface tension and calculate the express pressure inside a liquid drop and a soap bubble. - Explain the phenomena of viscosity, types of flows of a liquid, capillarity and its applications. -State and prove Bernoulli's theorem and explain its applications.	Lecture method ,Question answer session,problem solving method Teaching through power point presesntation	Assignment-5 Class Test-5
Practical	EXPT#5: To determine the acceleration due to gravity using simple pendulum.				

October

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Accountancy	CHAPTER-15:DEPRECIATION CHAPTER-16: PROVISIONS AND RESERVES	To Make students understand about Depreciation concept and its method, Concept of Reserve and provision .	Ch: 15 Explain the necessity of providing depreciation and develop the skills of using different methods for computing depreciation. Understand the accounting treatment of providing depreciation directly to the concerned asset account or by creating provision for depreciation account. CH: 16 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.	Prepare Mind maps Case Studies Pair and Share with Self assessment methods	Quiz activity

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Artificial Intelligence	Unit 9: Classification & Clustering (Knowledge) Part A-ICT Skills	What is a classification problem? - Simple binary classification • Introduction to binary classification with logistic regression • True positives, true negatives, false positives and false negatives o Where we should care more with examples • What is a clustering problem? • Why is it unsupervised? Part-A ICT Skills Creating a word document, Save, Applying header footer Creating a Table	Knowledge – What is classification and its types, what kind of problems may be placed under the category of a classification problem Applications – Where to apply classification principals Analysis – Impact of the application of incorrect algorithms on society Knowledge – Clustering problems and its application, why is it called clustering Application – Application of clustering problem using standard models Part-A Students will get know about the Basics of creating a word document, saving a file, open and close a file Creating a Table, autocorrect feature, spell checking	Lecture method Question answer session problem solving method Teaching through power point presentation	Practice exercise on simple Binary Classification model Example- false negative of a disease detection can have different implication than false positive, one will be more physical harm and other will be mental Practice exercise on simple Clustering model Quiz, Test on ICT skills

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Biology	Chapter-14:Respiration in plants Chapter:15:plant growth and development Chapter17:Breathing and exchange of gases Chapter18:Body fluids and circulation	Ch-14-Glycolysis, fermentation, difference between aerobic and anaerobic respiration, electron transport chain Ch-15-Growth and phases of growth, various growth model, conditions for growth, Plant hormones and their uses. ch-17-Human respiratory system, mechanism of breathing, respiratory volumes and capacities, exchange of gases, tranport of oxygen and carbon dioxide, disorders of respiratory system Ch-18-Componenets of circulatory system, components of blood, concept of blood groups, coagulation o blood, circulation mechanism, cardiac cycle and ECG	Ch-14-To analyse the steps of metabolic enzymes mediated cycles of respiration Ch-15To understand the role of Auxin, Gibberellin, Cytokinin, Ethlene, ABA in Plant growth and development Ch-17-To comprehend the mechanism of breathing, Calculate respiratory Quotient. Ch-18-To understand hypertension, CAD, Angina pectoris Cardiac arrest, heart failure	Interactive Discussion and Reasoning Questionnaire Pair and Share with Peer teaching methods Drawing various cycles and discussion about enzyme mediated processes. Case Studies, Hands on Activities	Assignment-8 and 9 To find out RQ value To calculate the pulse rate and breathing rate To make a chart showing events occurring in glycolysis Class tests Practise on diagrammes quiz activity

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
B.st	Ch-7 Source of Business Finance CH: 8 SMALL BUSINESS CH: 9 INTERNAL TRADE	learner will be able to understand the concept of entrepreneurship development,IPR,Role of SSI and various Govt. schemes and various types of internal Trade.	ch.8.: Understand the concept of entrepreneurship Development (ED), Intellectual Property Rights,Meaning and role of small scale business,Appreciate the various Government schemes and agencies for development of small scale industries. NSIC and DIC with special reference to rural, backward area. Ch. 9: 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	Videos,Presentation	Gaming,Quiz,Worksheet-7

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Chemistry	Unit 9:contd Unit 5: Chemical Thermodynamics	1. Concepts and types of systems, surroundings 2. First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, 3. measurement of ΔU and ΔH 3. Second law of Thermodynamics 4. Introduction of entropy , Gibb's energy change,criteria for equilibrium. 5. Third law of thermodynamics (brief introduction).	Learner will be able to 1. explain the terms system and surroundings 2. Discriminate between close, open and isolated systems 3. explain internal energy, work and heat, first law of thermodynamics 4. Calculate energy changes 5. explain , correlate and explain state functions: U, H. 6. calculate enthalpy changes for various types of reactions; • state and apply Hess's law of constant heat summation; • differentiate between extensive and intensive properties; • define spontaneous and nonspontaneous processes; • explain entropy as a thermodynamic state function and apply it for spontaneity; • explain Gibbs energy change (ΔG); and • establish relationship between ΔG and spontaneity, ΔG and equilibrium constant	Lecture method , Question answer method , Videos related to topics , Blended learning, Brainstorming , Chalkboard instruction, Classroom discussion	Assignment-8 Class test Objective -8 Class test Subjective -8 Quiz-8

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Computer Science	<p>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</p> <p>● Introduction to Python modules: Importing module using 'import <module>' 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)</p>	<p>Student will be able to understand the Concept of Dictionary</p> <p>➤ Traversal, functions/methods – len(), dict(), keys(), values(), items(), get(), update(), del(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted() copy();</p> <p>➤ Suggested programs : count the number of times a character appears in a given string using a dictionary, create a dictionary with name of employees, their salary and access them</p> <p>Student will be able to understand the Concept of: Library, Module, Name Space, Package, Random module, importing library</p>	<p>After completing Dictionary students will be able to:</p> <ol style="list-style-type: none"> 1. Define a python dictionary and its features 2. Understand the Key - value pairs 3. Know how to create a dictionary 4. Distinguish between get () and pop() 5. Know about update() ,keys() and values(). 6. How to add , delete , update a dictionary <p>After completing Modules, the students should be able to:</p> <ol style="list-style-type: none"> 1, Understand the need of modules in Python. 2, Understand the use of import keyword 3. Use import statement to include various modules to the program 4.. Students understand the use of i) Importing math module(pi, e, 	<p>Lecture method , Question answer method , Videos related to topics , Blended learning, Brainstorming , Chalkboard instruction, Classroom discussion</p>	<p>Class Test, Quiz</p>
Practical	1. Python program to find tuples which have all elements divisible by K from a list of tuples.				
Economics	Producer behavior and supply,	To make students aware about short run, long run, various aspects of firm's cost, revenue & supply and strategies of the producers equilibrium.	Students will learn about cost, revenue, supply and production function etc.	Lecture Method, Class Room discussion, individual method and simplified notes	Assignment-9 class Test-7

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Geography	BK 2 - India Physical Ch 5- Natural Vegetation Ch 6 - Natural Hazards and Disaster	Ch 5.To understand the relationship between vegetation belts and the climate. Ch 6. To make students aware about natural hazards and disasters happening in various parts of the country, their impact and ways to mitigate the damage caused by them.	The students will be able to- 5.The students will be able to recognise the importance of forest cover in the country and its spatial distribution. 5.1They will learn about number of species of plants and animals in India. 5.2 They will appreciate the efforts in conservation of forests and wild life. 6.Classifies different types of hazards and disasters. 6.1 Describes causes effects and mitigation policy for various natural disasters. 6.2 Able to identify and locate regions prone to different disasters on the map.	Inquiry-based learning, flipped classroom teaching, project-based learning, collaborative learning	Oral Test Class Test Assignments Periodic Test Annual Exam
Practical	Bk 3 Practical Book Ch 4- Map Projection Ch 5- Topographical Map	4.1- To know about different types of projection of map making in Cartography. 4.2- To understand the topographical map.	4.1- Students will learn different types of projections in geography. 4.2- Students will learn to read and analyse the topographical map		
History	CH -11 PATHS TO MODERNISATION	continued..	Continued..	lecture method	Assignment-9,10 , Class test-4
Practical	Map work				
Hindi	दुष्यत कुमार, अक्क महादेवी, मन्नू भंडारी एवं राजस्थान की रजत बूँदे	वर्तमान राजनीति से परिचय, परमसत्ता के समक्ष दीनता का भाव एवं जलसंरक्षण	अमानवीय समाज में : सबल व्यक्तित्व का निर्माण, जलसंरक्षण के अनेक विकल्पों की खोज	परिचर्चा	अभ्यास कार्य

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Home Sci.	Unit IV: Childhood Ch 9-Survival, Growth and Development Ch.10- Nutrition, Health and Wellbeing	ch 9 Explain the concept of survival, growth and development, relationship between growth and health, characteristics of different stages of childhood, developmental milestone, different domains of childhood ch 10 Describe nutritional needs of children at different stages of development, suggestions for planning balanced meals for children, food habits of children, identify important health and nutrition related problems of children, immunization schedule.	ch 9 students will understand the basics of growth and development, factors affecting development ch 10 they will relate the role of appropriate nutrition in wellness of an individual	Discussion and Lecture Method	Practical Assignment-9, 10
Practical	9. Relationship of fibre properties to their usage:				
Maths	1. Chapter 12-Limits and Derivatives	To make the learners: 1. Understand the concept of Limit of a function and its existence Left Hand Limit and Right Hand Limit, Limiting values of different functions, Practical & Geometrical Meaning of differentiation, derivatives using first principle.	The students will be able to 1. To find limiting values of different functions, calculate derivatives using first principle, various rules for finding derivatives	lecture Method, Guided practice followed by independent practice, Brain storming and Student Teacher Interaction, case studies, chalkboard instruction, classroom discussion	1. Assignment-12 (NCERT level, HOTS Questions) 2. Oral Test of Formula (daily basis) 3. Class Test -6
Practical	9. To check analytically whether the limit of given function exists or not				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Painting	Unit 3 Temple Sculpture, Bronzes and artistic aspects of Indo-Islamic Architecture (A) Artistic aspects of Indian Temple sculpture (6th Century A.D. to 13th Century A.D.) 1) Introduction to Temple Sculpture (6th Century A.D. to 13th Century A.D.) 2) Study and appreciation of following Temple-Sculptures: i. Descent of Ganga (Pallava period, Mahabalipuram, Tamil Nadu), granite rock Circa 7th Century A.D. ii. Trimuti (Elephanta, Maharashtra) Stone Circa 9th Century A.D. iii. Lakshmi Narayana (Kandariya Mahadev Temple) (Chandela period, Khajuraho, Madhya Pradesh) Stone Circa 10th Century A.D. iv. Cymbal Player, Sun Temple (Ganga Dynasty, Konark, Orrisa) Stone Circa 13th Century A.D. v. Mother and Child (Vimal-Shah Temple, Solanki Dynasty, Dilwara, Mount Abu; Rajasthan) white marble, Circa 13th Century A.D.	To create the forms and the colour schemes in imagination with an ability to express them effectively in drawing and painting.	Learner will Develop their skills to draw and paint the observations. Express the different feelings and moods of life and nature in lines, forms and colours.	Lecture and discussion Method.	Assignment-5 and Class Test (objective & subjective)-5
Practical	Landscape-Sightseeing				
Music	> Life Sketch and contribution of Tansen and V. D. Paluskar	to understand the life story of maestros and their contribution in the music.	Should be able to understand, explain and write the life sketch of the maestros.	Through the videos of their biographies and interview sessions of their students/followers explaining about their lives n contribution.	Class Test Assignments etc
Practical	Practice of recognizing of Raag (Bihag, Bhairvi) with phrases of swar.				
Painting	Revision			Practical method	Record file

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
PHE	Unit-10:-Training and Doping in sports	To make the understand Training and doping in sports	To achieve maximum individual or team efficiency in selected sports discipline	Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching	Ch#10 Assignment 19,20 Ch#11 Assignment 21,22 Ch#12 Assignment 23.24 HALF YEARLY EXAM
Practical	Practical no 4: Record file (Any one game of your choice)	To collect the data	Identifying and accepting challenges of the games		

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Physics	Chapter–10: Thermal Properties of Matter Chapter–11: Thermodynamics Chapter–12: Kinetic Theory of gases	To make the learners to understand : - Modes of Heat transfer between the bodies. - Thermal conductivity and its applications - The concept of calorimetry and calculation of specific heat capacities of a body. -The Concept of Heat, work and Internal energy of the system. -The concept of Thermodynamics and its different laws. - Various thermodynamic processes (Isothermal and Adiabatic) and work done in these processes. - The concept of kinetic theory of gases and gaseous laws. - Motion of gaseous particles along with mathematical analysis of pressure exerted by a gas and K.E of a gaseous particles.	Learners will be able to : - List the different modes of heat transfer and give its examples. - Define coefficient of thermal conductivity and classify objects as good conductors or insulators on its basis. - Calculate specific heat capacity of a body using principle of calorimetry. - State the zeroeth, first and second law of thermodynamics. - Derive an expression for the work done in Isothermal and Adiabatic processes. - Draw P-V indicator graphs for various thermodynamic processes. - List assumptions of kinetic theory of gases and derive an expression for the Pressure exerted by a gas on the walls of the container. - Derive relation between different specific heat capacities. -Define and Calculate Degrees of	Lecture method ,Question answer session ,problem solving method Teaching through power point presesntation	Assignment-6, Class test-6.

November

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Accountancy	CHAPTER-17: RECTIFICATION OF ERRORS CHAPTER-18: FINANCIAL STATEMENTS OF SOLE-PROP.	To make students understand about different types of errors in accounting process and their rectification process. to make students about Financial statement of business.	CH: 17 Appreciate that errors may be committed during the process of accounting. understand the meaning of different types of errors and their effect on trial balance develop the skill of identification and location of errors and their rectification and preparation of suspense account CH: 18 State the meaning of financial statement and 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 account. Explain the need for preparing Balance Sheet.	Prepare Mind maps Case Studies Pair and Share with Self assessment methods To show the various modes of action of hormones graphically	Assignments 10 and 11 Class tests Worksheets
Artificial Intelligence	Unit 10: AI Values (Bias awareness) Part-A Communication Skills	AI working for good <ul style="list-style-type: none"> Principles for ethical AI Types of bias (personal /cultural /societal) How bias influences AI based decisions How data driven decisions can be debiased 	Knowledge – What is ethics, Impact of ethics on society, the impact of bias on AI functioning Evaluation – Biases in data, how to de-bias or neutralize the biased data Application – Finding bias in acquired dataset	Prepare Mind maps ,Lecture method Question answer session	Hands on exercise to Detect the Bias (Intro to AI)

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Biology	Chapter 19:Excretory products and their elimination Chapter 20:Locomotion and movement Chapter 21: Neural control and coordination	Ch-19 Human excretory system, structure of kidney, counter current mechanism, urine formation, disorders of excretory system. Ch-20 Types of movement, types of muscles, and muscle contraction and theories related to it, human skeleton system and types of bones ch-21 Human neural system, structure of neuron, generation of nerve impulse and its transmission, central nervous system, structure of human brain and spinal cord Ch-22Human endocrine system, various endocrine glands and their hormones associated to it, and their mode of action	Ch-19-To analyse regulation of kidney function- Renin-angiotensin, Atrial natriuretic factor, ADH ch-20-To understand the Sliding filament theory of muscle contraction in humans ch-21-To analyse the role of hormones in human body, their importance and feed back mechanism of control	Lecture method Question answer session problem solving method Teaching through power point presenatation	Oral Tests , Group Discussions Quizzes Assignment-7
Practical	Expt:To Identify Xylem and phloem tissues				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
B.st	Ch-9 contd.. CH: 10 INTERNATIONAL BUSINESS AND PROJ WORK REVISION FOR PRE-BOARD	learner will be able to understand the concept of International Trade.Objective of Export and Import and their process and the objective of WTO.	Ch.10.: Understand the concept of international trade. Describe the scope of international trade to the nation and business firms.State the meaning and objectives of export trade.*Explain the important steps involved in executing export trade State the meaning and objectives of import trade.* 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 ernational trade transactions State the meaning of World Trade Organization.* Discuss the objectives of World Trade Organization in promoting	Lecture Method, Classroom discussion, Interactive Method and Simplified Notes.	Assignment-11, Class test-8.
Activities	Analysis of five companies by preparing Processing sheet Chart Conclusion			Using self made PPTs, video links, info from various sites, historical significance, NCERT and other self made notes	Class Tests (objective & subjective), Assignments

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Chemistry	Unit 5:contd UNIT 6: EQUILIBRIUM	1.Equilibrium in physical and chemical processes, 2.Law of mass action, equilibrium constant, factors affecting equilibrium 3.Ionic equilibrium 4.Strong and weak electrolytes, degree of ionization, 5.Ionization ,concept of pH, hydrolysis of salts 6.Buffer solution, solubility product, common ion effect	Learner will be able to 1.Identify dynamic nature of equilibrium 2.State the law of equilibrium, explain characteristics of equilibria 3.Establish a relationship between K_p and K_c 4.Explain various factors that affect the equilibrium 5.Acids or bases according to Arrhenius, Bronsted-Lowry and Lewis concepts; 6.Classify acids and bases as weak or strong in terms of their ionization constants 7.Explain common ion,describe pH 8.Explain ionisation of water ,describe ionic product (K_w) and pK_w for water; 9.Appreciate use of buffer solutions; • calculate solubility product constant.	Lecture method , Question answer method , Videos related to topics , Blended learning, Brainstorming , Chalkboard instruction, Classroom discussion	Assignment-8 Class test Objective -8 Class test Subjective -8 Quiz-8

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Computer Science	<p>Society, Law and Ethics</p> <ul style="list-style-type: none"> Digital Footprints Digital society and Netizen: net etiquettes, communication etiquettes, social media etiquettes Data protection: Intellectual Property Right (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source softwares and licensing (Creative Commons, GPL and Apache) Cyber-crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, preventing cyber crime Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying. 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 	<p>The students will able to know about</p> <ol style="list-style-type: none"> 1. What is cyber safety? 2. Safely browsing the web. 3. Identity protection while using the web. 4. Confidentiality of information. 5. Cyber-crime. 6. Common social networking site. 7. Appropriate usage of social networks. 8. Online access and computer security. 9. Treats to computer security. 10. Solutions to computer security treats. 11. Firewall – An important solution for computer security. 	<ol style="list-style-type: none"> 1. Ability to make use the value of technology in societies, gender and disability issues and the technology behind biometric ids. 2. Ability to work in the cyber world with understanding of cyber ethics, cyber safety and cybercrime. 	<p>Using self made PPTs, video links, info from various sites, historical significance, NCERT and other self made notes</p>	<p>Class Tests (objective & subjective), Assignments</p>
Practical	1. Write a Python script to concatenate following dictionaries to create a new one.				
Economics	<p>Forms of market and Price Determination and Project work</p>	<p>To get them important knowledge about the market and different applications of government regarding equilibrium price. Project work aims to give students an idea of the economic history of our nation and familiarize them with general economic terms like inflation, consumer's equilibrium etc.</p>	<p>Students will be able to understand the concept of market, market periods, other aspects of production and determination of price in detail.</p>	<p>Projects, PPTs, files on various topics</p>	<p>Assignment-11, Class Test-8</p>

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
English	Silk Road, Father to Son, Tale of Melon City	Comprehending travelogues, understanding human relationships, getting deeper into the genre of farce in literature.	The students will be able to understand that positive thinking changes the expected results, understand the difficulties faced while travelling in different situations and places, analyse that the author's experience at Hor was in stark contrast to earlier accounts of the place, critically analyse the consequences of lack of communication and cold indifferences in a family, realise that peace and liberty are the two strong factors for a state to flourish, able to understand that the rulers of the state should be judicious and sensitive to the needs of the people and the simplest way to maintain peace and liberty is by following the principles of laissez-faire.	Demonstration, Discussion	Programming, Worksheet-6
Activities	ALS- Project	Guide and motivate students to express and write effectively, develop knowledge and purpose of writing the skills, awareness of the form, content and process of writing.	Guide the students to write effectively with appropriate vocabulary and expressions. The students will be able to express their ideas by writing the skills.		
Chemistry	Revision				
Geography	Bk 3 : Introduction to Remote Sensing and GIS	To understand the basics of Remote sensing and GIS	Learners will be able to enhance their knowledge on Remote sensing and GIS	lecture and discussion method	Assignment-11,12 and class test-5

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Hindi	कृश्चंदर, जवाहरलाल नेहरू,निर्मला पुतुल एवंआलो- आँधरि- बेबी हालदार	हास्य -व्यंग्य एवं करूणा कोसमझ,देशप्रेमकोव्याख्या, आत्मकथा लेखन काज्ञान	विलम्बसे सरकारों नेणयो केपरिणाम स्वरूप एक सबल निर्णायक ,देशभक्त यादेशकीपावनता हेतुप्रयत्नशीलएवं विरोधीपरिस्थिति कोअपनेअनुकूल बनाने की क्षमता	अनेक व्याख्या ,चर्चा	अभ्यास कार्य
History	CH -11 PATHS TO MODERNISATION(Cont.)				
Activities	PPT				
Home Sci.	Ch.-11 Our Apparel Unit V: Ch 12 Adulthood Ch.- Health and Wellness	Ch 11 Discuss clothing functions and factors influencing the selection of clothes ,clothing needs of children,clothing requirement of different age groups, clothing needs of children with special needs. Ch 12 Describe importance of health and fitness., explain health concerns and challenges of life, explain concept of wellness,steps to promote and maintain good healthand wellness in adults.	Ch 11 Students will understand the types of care of clothes and their maintenance Ch 12 Students will realize the relation of health and wellness . -mental and physical as well as overall wellbeing in terms of income and prestige etc	Lecture Method	Assignment-11,12 and class test-5
Practical	10. (a) Analyze label of any one garment with respect to: Clarity, fibre content, size and care instructions.				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Maths	1. Chapter 13-Statistics 2. Chapter 14 - Probability	To make the learners: 1. Mean deviation about mean and median, variance and standard deviation 2. Axiomatic approach to probability, random experiment, sample space, events and their probability also methods of finding probability in case of likely and unlikely events.	The students will be able to 1. To find mean deviation about mean and median, variance and standard deviation. 2. To find sample space, identify between Exhaustive and mutually exclusive events, probability of an event for simple problems and, Solve problems related to finding probability of events in different cases using axiomatic approach (Collaboration and Communication). & problems related to algebra of probability (Problem Solving).	lecture Method, Guided practice followed by independent practice, Brainstroming and Student Teacher Interaction, case studies, chalkboard instruction, classroom discussion	1. Assignment-13,14 (NCERT level, HOTS Questions) 2. Oral Test of Formula (daily basis) 3. Class Test-7
Practical	10. To write the sample space, when a coin is tossed once, two times, three times, four times				
Music	> Knowledge of Structure of Taanpura. > Critical study of writing- Notation of composition (Drut Khayal) of raag Bhimpalasi.	1. Able to know the importance of tanpura: 2. essential accompanying instrument. 3. provides a points of reference for creating other sounds. 4. Knowledge of the different parts of taanpura and use of its parts. 5. to develop the voice and knowledge of sounds of swars.	1. Able to know the sounds of different swars. 2. Able to sing well. 3. Able to understand the notes used in Bhimpalasi Raag.	Lecture , Discussion method and Demonstration of raag Bhimpalasi . Individual singing also.	Class tests(objective & subjective)-6 Practice of Raag Bhimpalasi. Assignment-6
Practical	Practice of Raag Bhimplasi Drut Khayal (singing)				
PHE	Unit-9:-Psychology and sports	Students will able to understand concept of psychology and sports	Psychological principles as they relate to sports performance	Demonstration and discussion Method	Practical Assignment 17-18

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Practical	Practical no 3: Yogic practices (asanas improve lifestyle disease	For physical and mental well being	Improve flexibility and strength	Task method	Asanas
Painting	Unit 3 Temple Sculpture, Bronzes and artistic aspects of Indo-Islamic Architecture (B) Bronzes : 1. Introduction to Indian Bronzes. 2. Method of casting (solid and hollow) 3. Study and appreciation of following South Indian Bronze: i. Nataraj (Chola period Thanjavur Distt.,Tamil Nadu) 12th Century A.D. (Collection : National Museum, New Delhi) (C) Artistic aspects of the indo-Islamic architecture: 1. Introduction 2. Study and appreciation of following architecture: i. Qutub Minar, Delhi ii. Gol Gumbad of Bijapur	To sharpen their observation skills through study of common objects and various geometrical and non-geometrical forms found in life and nature. ☑ To develop their skills to draw and paint these observations.	students would be acquainted with brief glimpses of the development of Indian visual art as are required for concept formation.	Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching	Ch#13 Assignment 25,26 Ch#14 Assignment 27,28
Activities	Landscape-Sightseeing				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Physics	Chapter 13 - Oscillation Chapter 14 - Waves	To make the learners understand: - Simple harmonic motion, its applications and total energy of a simple harmonic oscillator. - The Concept of Resonance, free oscillations and forced oscillations - Types of Wave motion and equation of a plane progressive wave. - The concept of Beats, Standing waves formation in open organ pipe, closed organ pipe and stretched strings.	Learners will be able to: - Define simple harmonic motion, calculate the displacement, velocity, acceleration and total energy of a simple harmonic oscillator. - Study the oscillations in a spring mass system and simple pendulum. - Define resonance and give its examples. - Derive an expression for plane progressive wave. - Define standing waves and its formation in stretched strings and open and closed organ pipes - Define Beats and its formation and calculate beat frequency	Lecture method Question answer session problem solving method Teaching through power point presesntation	Assignment-7 Class Test-7

Practical | EXPT#9: To determine the radius of curvature of a given spherical surface using spherometer

December

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Accountancy	CH.-19: ADJUSTMENTS IN PREPARATIONS OF FINANCIAL STATEMENTS	to enable the students about statement of financial statement with adjustment and preparation of accounts of incomplete records.	CH 19: 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 account. * explain the need for preparing 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 trading and profit and loss account and	Prepare Mind maps Case Studies Pair and Share with Self assessment methods	Quiz activity
Artificial Intelligence	Part-A-Green Skills Part-A-Entrepreneurship Skills	Entrepreneur Values,attitude Three types of values Green economy,components of Green Economy,Policy Initiatives for Green Economy in India,Stakeholders in Green Economy and Their Role	Aware about the values ,attitude of an entrepreneur Components of Green Economy,Policies	Prepare Mind maps Case Studies Pair and Share with Self assessment methods	Class Test.Quiz,MCQ Test

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Biology	Chapter-22:Chemical coordination and integration	To analyse the role of hormones in human body, their importance and feed back mechanism of control	Action of various hormones and their impact on body	lecture method and quizzes	written and oral tests
Practical	Revision				
B.st	REVISION AND TEST	To prepare students for the upcoming exams	students can appear in the exam with confidence	Videos,Presentation	Gaming,Quiz,Worksheet-7
Chemistry	Revision & test				
Computer Science	Revision & test			Interactive sessions, online quiz	Class tests (Objective and Subjective tests) Quiz
Practical	Project				
Economics	Revision	REVISION AND TESTS	REVISION AND TESTS	Projects, PPTs, files on various topics	Speaking sessions to explain project
English	Revision	Ensuring understanding of poetry section and note making	Ensuring understanding of poetry section and note making	lecture Method, Quizes	Pre annual examination
Activities	ALS- Project	Guide and motivate students to express and write effectively, develop knowledge and purpose of writing the skills, awareness of the form, content and process of writing.	Guide the students to write effectively with appropriate vocabulary and expressions. The students will be able to express their ideas by writing the skills.		
Geography	Revision and test	Revision and test	Revision and test	lecture method, Discussion method	Assignment-13,14 , Class test-6
History	MAP WORK				
Hindi	पुनरावृत्ति-अपठित, रचनात्मक लेखन एवं साहित्य				
Activities	परियोजना कार्य				

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Home Sci.	Ch.-13 Financial Management and planning Ch.- 14 Care and Maintenance of fabrics	Ch 13 Understand meaning and concept of financial management,different types of income,steps in making family budget,meaning of saving and investment,principles of sound investment Ch 14 Understand the aspects of care and maintenance of different fabrics,procedure of removing different stains,identify the process of laundry, role of water, soaps and detergent in laundreing,use and care of fabrics in realtion to their properties.	Ch 13 Students will be able to use the money judiciously , know the concept of investment and types of investment Ch 14 They will be able to care their clothes by getting knowledge about different washing processes.	lecture method, Discussion method	Assignments and class tests
Music	> Recognizing the ragas from the phrases of swaras along with their elaboration.	1. To recognise the raaga easily (name of raaga) 2. To recognize its Thaata. 3. To understand and write aaroh, avroh, pakar after recognizing the raaga.	1. able to know the raaga. 2. able to know the features of raaga. 3. able to develop the sense that every raaga is itself associated with a very specific emotions.	Practice the raaga several times. Listen the raaga several times.	Discussion & Demonstration Assignment-7
Practical	Practice of recognizing of Raaga (Bhimpalasi) with phrases of swara.				
Maths	Revision and test	Revision and test	Revision and test	Lecture and discussion methos	Class test 10 and Assignment-10
Painting	Revision			Practical method	Record file
PHE	Unit-10:-Training and Doping in sports	To make the understand Training and doping in sports	To achieve maximum individual or team efficiency in selected sports discipline		
Practical	Practical no 4: Record file (Any one game of your choice)	To collect the data	Identifying and accepting challenges of the games		

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Physics	REVISION AND PREBOARD EXAM	REVISION AND PREBOARD EXAM			PRE-BOARD EXAM
January					
Accountancy	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	Interactive sessions, online quiz	Interactive sessions, online quiz
Artificial Intelligence	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	Interactive sessions, online quiz	Interactive sessions, online quiz
Biology	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	Interactive sessions, online quiz	Pre annual examination
B.st	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	Interactive sessions, online quiz	Pre annual examination
Economics	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	lecture Method, Quizes	Pre annual examination
English	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	lecture Method, Quizes	Pre annual examination
Geography	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	lecture Method, Quizes	Pre annual examination
History	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	Interactive sessions, online quiz	Pre annual examination
Hindi	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	lecture Method, Quiz	Pre annual examination
Home Sci.	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	lecture Method, Quiz	Pre annual examination
Maths	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	lecture Method, Quizes	Pre annual examination
Music	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	lecture methods, Quiz, test, live demos	Pre annual examination
Painting	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	lecture Method	Pre annual examination

SUBJECT	SYLLABUS(Brief Description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
PHE	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	lecture Method, Quiz	Pre annual examination
Physics	PRE-BOARD EXAMINATION	REVISION AND TESTS	REVISION AND TESTS	lecture Method, Quiz	Pre annual examination

February

Accountancy			REVISION AND TESTS		
Artificial Intelligence			REVISION AND TESTS		
Biology			REVISION AND TESTS		
B.st			REVISION AND TESTS		
Economics			REVISION AND TESTS		
English			REVISION AND TESTS		
Geography			REVISION AND TESTS		
History			REVISION AND TESTS		
Hindi			REVISION AND TESTS		
Home Sci.			REVISION AND TESTS		
Maths			REVISION AND TESTS		
Music			REVISION AND TESTS		
Painting			REVISION AND TESTS		
PHE			REVISION AND TESTS		
Physics			REVISION AND TESTS		