

# DAV PUBLIC SCHOOL SAHIBABAD

## Monthly Academic Planner Class XII 2023-24

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
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### April

<b>Accounts</b>	Chap: 1 – Fundamentals of a partnership firm Chap 2-- Goodwill : Nature and Valuation Chap 3– Change in Profit Sharing Ratio among the existing partners	After studying this chapter, learner will be able to ->Learn the essential provisions of the Indian Partnership Act 1932 specifically the distribution profit or loss among the partners and prepare the Profit and Loss Appropriation Account; ->Calculate interest on capital and drawing under various situations; and ->Preparation of final accounts of a partnership firm; ->Valuation of goodwill and accounting treatment in case of change in Profit sharing ratio among the existing partners.	The Students will be able to: * State the meaning of partnership, partnership firm and partnership deed. * Describe the characteristic features of partnership and the contents of partnership deed. * Discuss the significance of provision of Partnership Act in the absence of partnership deed. * Differentiate between fixed and fluctuating capital, outline the process and develop the understanding and skill of preparation of Profit and Loss Appropriation Account. * Develop the understanding and skill of preparation profit and loss appropriation account involving guarantee of profits. * develop the understanding and skill of making past adjustments. * State the meaning, nature and factors affecting goodwill *Develop the understanding and skill of valuation of goodwill using different methods. *State the meaning of sacrificing ratio,	*Problem solving method *Classroom discussion method * Printed worksheet *PPT	Google form test, class test,NCERT and other text book exercise qs.  Assignment of numericals and class test from the completed chapters. ASSIGNMENT-1
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SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Artificial Intelligence	Data Story telling	<p><b>Understanding Data Storytelling:</b> Define data storytelling and understand its importance in the context of AI and data science applications.</p> <p><b>Data Gathering and Preparation:</b> Learn to gather relevant data from various sources and preprocess it to ensure it is clean and suitable for analysis.</p> <p><b>Data Analysis Techniques:</b> Explore different data analysis methods such as statistical analysis, data mining, and machine learning algorithms to uncover insights.</p> <p><b>Data Visualization:</b> Gain proficiency in using data visualization tools and techniques to represent data effectively in charts, graphs, and infographics.</p> <p><b>Crafting a Data Narrative:</b> Develop the ability to structure and present data in the form of a compelling narrative with a clear beginning, middle, and end.</p> <p><b>Audience Understanding:</b> Understand the importance of knowing the target audience and tailoring data stories to resonate with their needs and interests.</p> <p><b>Storytelling Techniques:</b> Learn storytelling techniques such as storytelling arcs, character development, and using storytelling devices to make data stories</p>	<p><b>Data Interpretation:</b> Students will be able to analyze and interpret complex datasets, understanding patterns and insights hidden within the data.</p> <p><b>Effective Communication:</b> Students will develop strong communication skills to convey data-driven narratives in a clear, compelling, and persuasive manner.</p> <p><b>Visualization Techniques:</b> Students will learn to create engaging and visually appealing data visualizations that effectively convey information to the audience.</p> <p><b>Critical Thinking:</b> Students will enhance their critical thinking skills by making data-driven decisions and drawing conclusions based on evidence.</p> <p><b>Ethical Awareness:</b> Students will be aware of ethical considerations in data storytelling, ensuring responsible and unbiased representation of data.</p>	Demonstration , Activity, Project	Worksheets

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Biology	Chapter-1 Reproduction in organisms Chapter 2-sexual reproduction in flowering plants Chapter3- Human reproduction	<ol style="list-style-type: none"> <li>1. Concept of flower development</li> <li>2. development of male and female gametophytes</li> <li>3. Pollination-types agencies and example, outbreeding devices.</li> <li>4. Pollen Pistil interaction.</li> <li>5. Double fertilization</li> <li>6. Post fertilization events-development of endosperm and embryo.</li> <li>7. Development of seed and formation of fruit.</li> <li>8. Special modes of reproduction – apomixes, parthenocarpy, polyembryony</li> <li>9. Significance of seed dispersal and fruit formation.</li> </ol> <b>Chapter-3</b> <ol style="list-style-type: none"> <li>1. Study of Male and female reproductive systems and then role of each part.</li> <li>2. Microscopic anatomy of testis and ovary.</li> <li>3. Concept of gametogenesis- spermatogenesis and oogenesis.</li> <li>4. Menstrual cycle and various events of it.</li> <li>5. Fertilisation-blastocyst formation, implantation, pregnancy and placenta formation.</li> <li>6. Concept of parturition , lactation and hormonal changes in the body</li> </ol>	<b>Ch-2</b> <ol style="list-style-type: none"> <li>1.Acquire the knowledge to identify various flowers pollinated by various agencies.</li> <li>2.Development of special modes of fruit formation and its key concepts.</li> <li>3.Concept of endosperm formation and its importance</li> </ol> <b>Ch-3•</b> <ol style="list-style-type: none"> <li>1. Students will be able to understand the concept of spermatogenesis and oogenesis and various hormonal changes occurring during it.</li> <li>2.Will know the various stages of implantation and its affect on uterus.</li> <li>3.Role of placenta and placental hormones during pregnancy.ch-4Students will be aware of various methods which are developed to combat infertility.</li> </ol>	Throgh lecture cum demonstarion methods,Videos,ppt	Assignment 1 Assignment-2 Assignment-3 Recapitualtions and class tests.

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Business Studies	Ch. 1: Nature and Significance of Management Ch.2: Principle of Management	Chapter- 1 To make students understand Management - concept, objectives and importance. Management as Science, Art and Profession. Levels of management. Management functions - planning, organising, staffing, directing and controlling.Coordination - concept, characteristics and importance <b>Ch- 2 Principles of Management:</b> Principles of Management - concept, nature and significance.Fayol's principles of management.Taylor's Scientific Management - principles and techniques.	After going through the chapter, Students will be able to understand : <b>Chapter- 1 :</b> The concept of management, 'Effectiveness and Efficiency.Objectives of management, importance of management, management as a science, art and profession, Levels of management, functions of management, co-ordination. <b>Chapter-2:</b> *Understand the concept of principles of management. *Nature and significance of management principles *Principles of management developed by Fayol. *Taylor's Scientific management- principles and techniques *To Compare the contributions of Fayol and Taylor.	Lecture method Question answer session Problem solving method Teaching through power point presentation Demonstration of movie clips related to various principles.	Oral Test , Group Discussion, Quiz Class Test-1 NCERT Exercise Questions of Ch- 1 & 2 Case Study questions ASSIGNMENT-1

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Chemistry	UNIT 1: SOLUTIONS  UNIT2: ELECTROCHEMISTRY	<p>1.Describe colligative properties and correlate these with molecular masses of the solutes 2.Explain abnormal colligative properties exhibited by some solutes in solutions .</p> <p><b>UNIT 2:</b> 1.To describe electrochemical cell, measurement of electrode potential. 2.To explain Nernst equation 3.Relation between electrochemical cell and Gibbs energy . 4.Explaining conductance of electrolytic solutions , methods of measuring conductivity 5.explanation of variation in conductivity and molar conductivity with concentrations. 6.Explanation of electrolytic cells , electrolysis and laws 7.Understanding Batteries and types. explaining corrosion.</p>	<p>1.Will be able to learn the use of various Colligative properties 2. They learn how to determine the molecular mass of solute 3. They understand that why the molecular mass of some are abnormal.</p> <p><b>UNIT 2:</b> Learners will be able to 1. Describe electrochemical cell &amp; apply Nernst equation 2.Derive relation b/ws standard potential of the cell,G and K; 3. Define resistivity (<math>\rho</math>), conductivity (<math>\kappa</math>) and molar conductivity (<math>\Lambda_m</math>) of ionic solutions; 4.Differentiate between ionic (electrolytic) and electronic conductivity; 5.Describe the method for measurement of conductivity of electrolytic solutions 6.Justify the variation of conductivity and molar conductivity with concentration 7. Enunciate Kohlrausch law and learn its applications; 8.Understand quantitative aspects of</p>	Lecture method , Question answer method , Videos related to topics , Blended learning, Brainstorming , Chalkboard instruction, Classroom discussion PPT	<p>Assignment-1 Class test Objective -1 , Class test Subjective test -1 , Quiz-1 Class test of the completed topics</p> <p>Assignment- 2 Class test Objective - 2 Class test Subjective - 2 Quiz-2</p>

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Computer Science	<p><b>Chapter 1:Revision of Python topics covered in Class XI.</b></p> <p>(a)Introduction, Tokens, Variable operator and expression            (b) Types of Flow Control            (c) Conditional statement (if..else, if..elif..else, etc.)            d)Statement Flow Control:- Introduction to Iterational statements like (for..while.. loops)</p> <p><b>Chapter 2: Functions</b>            Functions-Types, Advantages, built in functions, math and string library functions and syntax &amp; execution of user defied function</p>	<p><b>Chapter 1:Revision of Python topics covered in Class XI.</b></p> <p>1.Student will be able to understand the following            Concepts of the Python:            Modes of working, Tokens, Keywords, Identifiers, variable s, Literals, Operators, Punctuators, Expression, Comments, Simple Input &amp; Output, Data types, Immutable &amp; Mutable Data types, Precedence of operators, Type Conversion</p> <p>2. Learners will be able to comprehend the concept as well as need of using Statement Flow Control (Sequence &amp; Conditional) in programming in Python.</p> <p>3.Learners will be able to comprehend the concept as well as need of using Iterational Flow Control in programming in Python.            Types of Iterational constructs:            1. for loop            2. while loop</p> <p><b>Chapter 2: Functions</b>            Student will be able to understand the about functions            1.Built in functions 2.Module based</p>	<p><b>Chapter 1:Revision of Python topics covered in Class XI.</b></p> <p>1.Well known about basics of Python.            2. Understand Python program structure.            3.Know how to use conditional and iterative statements.            4.Understand built in data types and its use.            5.Understand difference between mutable and immutable data types.            6. Apply different built in functions on string, list, tuple and dictionary.            7. Understand use of different types of operators (e.g. Arithmetic operators, logical operators, relational operators ) in program.            8. Write simple Python programs.</p> <p><b>Chapter 2: Functions</b>            1. Realize significance of functions in Python. 2. Develope and use docstrings in Python function.            3. Understand flow of execution of a program where functions have been used.            4. Recognizing environments created by Python interpreter.</p>	<p>General discussion            Teaching through Smart Boards, collaboration            , demonstration</p>	<p>Quiz , Assignment-1            Class Test-1            Solve previous years            Chapter wise CBSE papers</p>
<b>Practical</b>	1. Write a function in Python to swap() first half of the elements with the second half of the elements. Also implement this function in a Python Program				
<b>Economics</b>	<p>Money and banking,            Government budget and the economy</p>	<p>To make students understand the concepts of money &amp; bank, functions of money, financial institutions, Commercial banks, RBI, government budget and its components.</p>	<p>Students will have a clear understanding of the concept of money and banking and government budget, could investigative question in terms of it and could successfully relate theoretical concepts to a real-world problem in a written report.</p>	<p>Lecture Method, Classroom discussion, Interactive Method and Simplified Notes.</p>	<p>Assignments 1, 2 Class test 1</p>
<b>Activities</b>	Classroom experiment in monetary policy.				

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English	Notice Writing, Letter to Editor, Job Application, Last Lesson, Lost Spring, My Mother at 66, Third Level	Developes ability to make cross-curricular linkage, Sensitization to the critical issues of child labour and deprivation of the basic right to education and deprived of the right to dream, Learning how patriotism also means love for one's language and other aspects of culture. Never to take one's freedom of expression for granted, learning to write notices & letters to editors and job applications.	Acquire the ability to listen and understand, and should be able to employ non-verbal clues to make connections and draw inferences. Develop the habit of reading for information and pleasure; draw inferences and relate texts to previous knowledge; read critically and develop the confidence to ask and answer questions.	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
Geography	<b>BK 1 (Fundamentals)</b> Chapter -1 Human Geography Nature and Scope Ch- 2 The World's Population Distribution,Density and Growth, Ch-3 Human Development <b>BK 2 (India People and Economy)</b> Ch-1 The People (Population: Distribution,Density, Growth and Composition)	<b>BK 1</b> Ch1.To define Human Geography and describe the nature and scope of Human Geography as a discipline. Ch2.To familiarize learners with some basic concepts of Population Geography Ch3.To understand the concept of Human Development introduced by Dr. Mehbul Ul Haq and Prof. Amartya Sen <b>BK 2 ch 1</b> The students will be able to- 1.To correlate population distribution and density with the physiography of India. 2.To familiarize students with demographic attributes of India.	<b>Bk-1</b> The Students will be able to- CH 1.1. Define the term Human geography. 2.explain the relationship between physical environments and humanbeings. ch 2.Name and define the componenets responsible for population change. ch 3 - Differentiate between growth and development. <b>Bk 2 ch 1</b> The students will be able to- 1.Discuss the factors responsible for uneven distribution of population in India. 2.Explain trends of population growth in India since 1901. 3.Differentiate between push factors and pull factors	1.Case study on determinism and Possibilism and Thomas Robert Malthus. 2.Concept map on school of Thoughts and brancehes of Human geography 3.Activity Based Metod 4.Inquiry -Based Method 5. World Map 6. Interactive Method	Periodic Test, SelectionExam Half Yearly Pre boards Class Test Assignment Board Exam

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<b>Practical</b>	<b>Bk 3</b> Ch 1 . DATA: SOURCES AND COMPILATION	1.To understand the importance of data and its uses in Geography.	The Students will be able to- 1. Define data and able to differentiate between Primary and Secondary data. 2. List several sources of Data.	Collection of primary and secondary data	
<b>History</b>	CH - 1 BRICKS, BEADS AND BONES CH - 2 KINGS, FARMERS AND TOWNS	1.Familiarize the learner with early urban centres as economic and social institutions 2. Introduce the ways in which new data can lead to a revision of existing notions of History 3. Illustrate steps of making archaeological reports 4. Familiarize the learner with major trends in the political and economic history of the subcontinent 5. Introduce inscriptional analysis and the ways in which these have shaped the understanding of political and economic processes	*State and deduce the multi-lateral aspects of Harappan civilization in order to understand the first civilization of the world *Develop an ability to use and analyze socio- economic, political aspects of Harappa *Investigate and interpret historical and contemporary sources and viewpoints of ASI and historians on Harappa Explain major trends in the 6th century BCE in order to understand the political and economic history of the subcontinent. *Analyze inscriptional evidences and the ways in which these have shaped the understanding of political and economic processes.	Story-telling method, demonstration method, question-answer method	Regular, formative Assessment - More Competency-base, Testing High order thinking skills like analysis, critical thinking Conduction of class tests after completion of some major concepts/sub-topics & at the completion of chapter Class test of Ch - 1 & 2
<b>Practical</b>	Paper Machie/Jewellery making				
<b>Hindi</b>	हरिवंशराय बच्चन, महादेवी वर्मा, विभिन्न माध्यमों के लिए लेखन, पत्रकारिता लेखन के विभिन्न रूप और लेखन प्रक्रिया, विशेष लेखन : स्वरूप और प्रकार	हरिवंशराय बच्चन एवं हालावाद संसमरणात्मक लेखन की समझ	व्यक्तित्व विकास ,लेखन शैली का विकास।	कविता वाचन एवं व्याख्या	अभ्यास कार्य
<b>Practical</b>	श्रवण एवं वाचन कौशल				



SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Home Sci.	UNIT I:Work,livelihood and Career Ch.1.. Work, livelihood and Career	1.To Explain meaningful work, livelihood, careers and entrepreneurship. 2.Understand the concepts of standard of living and quality of life. 3. Know the importance of social responsibility and volunteerism. 4.Explain the attitudes and approaches that contribute to quality of work life and successful careers. 5. Be sensitive to the issues of work in relation to traditional occupations and special groups namely women, children and elderly. 6. Describe the characteristics of a healthy work environment	Students will be able to understand the - 1.Meaningful work, livelihood, careers and entrepreneurship. 2. Difference of standard of living and quality of life. 3. The different attitudes and approaches that contribute to quality of work life and successful careers. 4. The issues diminishing traditional occupations and how to support these occupations. 5. Ways and characteristics of a healthy work environment	Lecture method , Recapitulating Discussion method	Practice questions Assignment no. 1- Subjective questions
<b>Practical</b>	Project- Market survey any five processed foods with their packaging and label information				
<b>Informatics Practices</b>	Unit 2: Ch-1 Querying and SQL functions 1.Database Query using SQL i)Math functions: POWER ( ), ROUND ( ), MOD ( ). ii)Text functions:UCASE ( )/UPPER ( ),LCASE ( )/LOWER ( ), MID( )/SUBSTRING ( )/SUBSTR( ), LENGTH ( ), LEFT ( ),RIGHT ( ), INSTR ( ),LTRIM(),RTRIM(),TRIM( ). iii) Date Functions: NOW ( ),DATE ( ), MONTH ( ),MONTHNAME ( ), YEAR ( ), DAY(), DAYNAME ( ).	i) To store real life data in MySQL tables. ii) Gain skills in querying using SQL queries. ii) Retrieve the required data using SQL queries with different types MySQL functions	Students will be able to: a)Apply the use of Math function in SQL Queries b)Apply Date and Time functions appropriately in SQL Queries c)Compare Math,String Date and Time Function d)Identify different types of functions	1. Explanation of each topic theoretically.(Demonstration Method) 2. PowerPoint Presentation.(ICT) 3. Explanationwith the help of writingqueries.(ICT) 4. Planning,databasedesign, coding forthe project work in a group of 2 or 3 students	*Assignment-5 *Quiz *Written Test-4 *Practical Test

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
	Unit-2 Database Query using SQL Aggregate Functions:MAX (), MIN ( ), AVG ( ),SUM ( ), COUNT ( ); usingCOUNT (*). iv) Querying andmanipulating data using Group by, Having, Order by.	*Design SQL queries using aggregate functions. * Different functions in Database to extract filtered data from the huge database *Use of Group by Clause *Use of Group by Clause with having clause	Students will be able to *Compare Group by and Where clause *Apply different functions in SQL queries *Compare Single Row and Multiple row functions *Use of Aggregate functions in SQL queries	1. Explanation of each topic theoretically.(Demonstration Method) 2. Power Point Presentation.(ICT) 3. Explanation with the help of creating tables,defining constarints and writing group by and having queries.(ICT)	*Assignment-6(Written and Practical) *Quiz *Written Test-5 *Practical Test
<b>Practical</b>	MySQL Practicals				
<b>Maths</b>	<b>Ch-12</b> Linear Programming	Introduction of LPP, related terminology such as constraints, objective function, optimization, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solution	Learners will be able to formulate and solve problems related to maximization/ minimization of quantities in daily life situations using systems of inequalities/inequations learnt earlier.	Discuss in groups different situations and find solutions for maximizing/minimizing the object function through graphs of inequalities involved.	Assignment, class Test, Oral test Class Test 1 , assignment 1

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
	<p><b>Ch-13</b> Probability  <b>Ch-1</b> Relations and Functions  <b>Ch-2</b> Inverse Trigonometric Functions  <b>Ch-3</b> Matrices</p>	<p>1. Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean of random variable  2. To know different type of Relations and functions ,it's definition and connection with examples from daily life.  3. Domain and range of inverse trigonometric functions,Principal value branch  4. Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication.</p>	<p>Students will be able to  1. Calculates conditional probability of an event and uses it to evolve Baye's theorem and multiplication rule of probability. Determines mean of a probability distribution using the concept of random variable.  1. Identifies different type of relations and functions,  2. Explore the values of different Inverse Trigonometric functions.  3. To Evolve the idea of Matricesas operations and its application</p>	<p>To recaptulate basic ideas discussed in previous class on probability then by explaing example which helps to understand concept of conditional probabilityDifferentiate between different examples of relations given to students,Discussion of student's observations Identifying about one - oneness, and ontoeness of functions by discussing various examples and drawing their graph, to discuss trigonometric functions and its inverse on different domain and range ..Various examples on matrix</p>	<p>Oral Test,Subjective Test and Assignments  Assignment no. 2,3,4,  Class Test -2,3</p>
<b>Practical</b>	<p>Activity no.  1. based upon Probability  2 Based on Relation  3. Activity no. 2 Based on Function  4. Based on Inverse Trigonometry</p>	<p>1. To explain the computation of conditional probability of a given event A , when event B has already occurred, through an example of throwing a pair of dice.  2. To verify that relation R in the set L of all lines in a plane , defined by { (l,m)   l is perpendicular to m } is symmetric but neither reflexive nor transitive.  3. To demonstrate a function which is not one-one but onto.  4. To draw the graph of inverse of <math>\sin x</math> , using the graph of <math>\sin x</math> and demonstrate the concept of mirror reflexion about the line <math>y = x</math>.</p>	<p>Performing activity no.  1 Students will learn to check whether a given relation is an equivalence relation or not. and by activity no.  2 Students will learn to demonstrate the concept of one-one and onto function.</p>	<p>Hands on session in class room</p>	<p>By checking Practical note book</p>

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<b>Music</b>	Brief Study of the following - Alankar, Alaap, Taan, Meend Gamak Description of Rupak- Ekgun, Dugun, Chaugun (Theory & Practical )	1. Students will be effective learner. 2. Students will achieve proficiency in music.	1.Students will develop and apply foundational knowledge and skill in music theory. 2. Able to explain the use and differences of alankar, meend, gamak, alaap, taan, 3. Students will be aware of the beats (7 beats) Rupak taal.	Through lecture and discussions	Questionnaires will be given for practice.Assignment-1 Class Test-1 (objective & subjective)
<b>Practical</b>	Practice of Rupak Taal on hand beat with Ekgun, Dugun and Chaugun.				
<b>Painting</b>	Unit-1 Miniature Painting of Rajasthan schools 1.Origin and Development 2. Sub-Schools-Mewar, Bundi, Jodhpur, Bikaner, Kishangarh and Jaipur 3. Main features of the Rajasthani School	To foster creativity and self-expression (basic understanding of colour concept and application in relation to colour and texture of the material	*Discover their potential for creativity, self-expression and visual awareness through painting. *Relate their work to other artists work and understand the historical context of this work. * Understand the basic principles of colour.	Through lecture and discussions	Practical Assignment-1-6
<b>Practical</b>	Miniature Paintings of Rajasthani Schools				
<b>PHE</b>	UNIT-1:-Management of sporting events	To encourage the students about the planning	*To Know and apply the organizational principles of a sport event. *To Understand and put aspects of the financial management of a sport event into practice. *To Know how to select and manage professional collaborators and/or volunteers. *To Obtain and align available resources for a sport event. *To Apply methods of assessing a sport event and identify aspects that can be further improved.	Lecture method and problem solving method	Class test -1 and Assignment-1
<b>Practical</b>	Practical no 1: SAI Khelo India test	To increase the motor ability	Fitness	Practical method	Speed (100m)

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Physics	Chapter -1 Electric Charges and Fields	To make the learners understand the theoretical and mathematical concepts of Electric Charges and its Properties, Electrostatic forces and fields of different charge distributions	Students acquires the basic knowledge of Electric charges, concept of electrostatic force in vector form, different distribution of charges, Electric field produced by different distribution of charges and its mathematical analysis. Student will be able to relate the phenomena of charging of a body with daily life.	Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching	Assignments on Chapter 1: 1,2,3 Class test of Chapter 1 : 1,2 Question Bank with solution of Chapter 1 :-1
	Chapter-2: Electrostatic Potential and Capacitance Chapter-3: Current Electricity	To make the learners understand: - The concept of Electric potential due to different charge distributions and its relation between electric field. -Capacitance, dielectrics and its polarization. -Electricity, resistance and resistivity and the parameters affecting it. - Electrical devices like wheat stone bridge and its application in meter bridge with real life application.	Student will be able to understand : -Concept and mathematical treatment of taught topics. -The working of electrical component and make electrical Circuit -Able to operate different electrical instruments like Meter bridge, Galvanometer, Voltmeter etc.	Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching	Assignments of chapter 2 : 4,5 Assignment of chapter 3: 6,7 Class test of Chapter 2: 3,4 Class test of Chapter 3 : 5,6 Question Bank with solution of Chapter 2 :-2 Question Bank with solution of Chapter 3 : 3

**MAY**

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Accounts	Chap 3 – Change in Profit Sharing Ratio among the existing partners-contd. Chap 4—Admission of a partner Chap 5 - Retirement of a partner	Learners will be able to <ul style="list-style-type: none"> <li>• Explain the concept of reconstitution of a partnership firm;</li> <li>• Identify the matters that need adjustments in th books of firm when a new partner is admitted retired or died and accounting treatment to be done for the same</li> </ul>	Students will be able to - Ch.4: Explain the effect of change in profit sharingratio on admission of a new partner. *Develop the understanding and skill oftreatment of goodwill as per AS-26, treatment of revaluation of assets and re-assessment of liabilities, treatment of reserves and accumulated profits, adjustment of capital accounts and preparation of capital, currentaccount and balance sheet of the new firm. Ch.5 * Explain the effect of retirement / death of a partner on change in profit sharing ratio.* Develop the understanding of accountingtreatment of goodwill, revaluation of assetsand re-assessment of liabilities and adjustment of accumulated profits, lossesand reserves on retirement / death of a partner and capital adjustment.	*Problem solving method * Classroom discussion method * Printed worksheet *PPT	Google form test, Class test-2,3,4, NCERT and other text book exercise qs. * crossword Assignment of numreicals and class test from the completed chapters. ASSIGNMENT-2 ASSIGNMENT-3 ASSIGNMENT-4

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Artificial Intelligence	ICT Skills	<p>Basic Spreadsheet Skills: Understand the basic concepts of spreadsheets, including cells, rows, columns, and sheets.</p> <p>Data Entry and Formatting: Learn to enter data into Excel and format it effectively for better readability.</p> <p>Formulas and Functions: Explore various Excel formulas and functions to perform calculations and automate tasks.</p> <p>Data Analysis Techniques: Gain proficiency in using Excel for data analysis, including sorting, filtering, and creating charts.</p> <p>Data Visualization: Learn to create visually appealing and informative charts and graphs to represent data.</p> <p>Data Validation: Understand how to set up data validation rules to ensure data accuracy and consistency.</p>	<p>Proficient Spreadsheet Skills: Students will demonstrate competence in using Excel's interface and navigating spreadsheets efficiently.</p> <p>Accurate Data Entry and Formatting: Students will enter and format data accurately, making it visually appealing and easy to understand.</p> <p>Effective Formulas and Functions: Students will use Excel formulas and functions to perform calculations and solve real-world problems.</p> <p>Data Analysis Proficiency: Students will analyze data effectively using Excel's tools, such as sorting, filtering, and conditional formatting.</p> <p>Data Visualization Abilities: Students will create charts and graphs that effectively communicate data insights to others.</p> <p>Data Validation Implementation: Students will set up data validation rules to ensure data integrity and prevent errors</p>	Lab work	Practical Worksheet

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Biology</b>	Chapter4:Reproductive Health Chapter5:Principles of inheritance and variation	<p><b>Ch-4</b></p> <ol style="list-style-type: none"> <li>1. Need for reproductive health and prevention of STDs.</li> <li>2. Concept of birth control – needs and methods.</li> <li>3. Concept of contraception and MTPs, Amniocentesis.</li> <li>4. Methods to cure infertility and assisted reproductive technologies- IVF, ZIFT, GIFT, IUDs.</li> </ol> <p><b>Ch-5</b></p> <ol style="list-style-type: none"> <li>5. Concept building of mendelian Inheritance,.</li> <li>6. Deviations from Mendelism- Incomplete dominance, Co- Dominance, multiple alleles.</li> <li>7. Concept building about various blood groups and their inheritance.</li> <li>8. Concept of pleiotropy and polygenic inheritance.</li> <li>9. Chromosomal theory of inheritance.</li> <li>10 Sex determination in- Humans, Birds and honey bees.</li> <li>11. Concept of linkage and crossing over.</li> <li>12. Sex linked inheritance- Haemophilia, colour Blindness.</li> <li>13. Chromosomal and Mendelian disorders in Humans.</li> </ol>	<p><b>Ch-4</b></p> <ol style="list-style-type: none"> <li>1.Students will be aware of various methods which are developed to combat infertility.</li> <li>2.Use of contaceptions and their effect on body</li> <li>3.Use of contaceptions and their effect on body</li> </ol> <p><b>Ch-5</b></p> <ol style="list-style-type: none"> <li>1. Concept building on mendelian genetics.</li> <li>2. Various attributes of mendelian and chromosomal disorders.</li> <li>3. Blood groups and their role in various organisms.</li> <li>4. Role of mutation and its affect can be studied.</li> <li>5. Family diseases can be studied with the help of pedigree analysis chart.</li> </ol>	Lecture method,ppts,Videos blended learning, brainstorming ,case studies, chalkboard instruction,class projects,classroom discussion	<p><b>Assignment-4</b></p> <p><b>Ch-4</b></p> <ol style="list-style-type: none"> <li>1. To prepare a project on various ART techniques used in todays generation where there are so many complications regarding pregnancy.</li> <li>2. Solving of last year chapter wise q.p .</li> </ol> <p><b>Ch-5</b></p> <ol style="list-style-type: none"> <li>2. To find out the differences between mendelian and chromosomal disorders .</li> <li>3. To find out diseases with pedigree analysis charts</li> <li>4. Comaparison of various mendelian traits</li> </ol>
<b>Practical</b>	Expt-3:To study the flowers adapted to pollination by different agents			Lecture method,Videos and ppts	



SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
B.st	Ch.3 : Business Environment and management, Ch.4 : Planning, Ch.11 Marketing Management	<p><b>Learner will be able to -</b></p> <p><b>Ch 3:Business Environment and Management</b> :</p> <p>.Business Environment - concept and importance. Management and Business Environment Dimensions of Business Environment - Economic, Social, Technological, Political and Legal. Demonetization - concept and features</p> <p><b>Chapter 4: Planning</b> Concept, importance and limitation,Planning process Single use and standing plans. Objectives, Strategy, Policy, Procedure, method Rule, budget and Programme</p> <p><b>Chapter 5 Organising:</b> Concept and importance. Organizing Process. Structure of organizationDescribe functional and divisional structures of organisation, advantages,, disadvantages and suitability of, functional and divisional structure</p> <p><b>Ch-11</b> To identify the concepts of various elements of marketing Mix</p>	<p>After going through this Unit, the students will be able to:</p> <p>Describe the meaning of business environment &amp; its importance. Discuss different types of business environment. Concept and features of Demaonitization.</p> <p><b>Chapter 4: After going through this Unit, the students will be able to:</b> Explain the meaning of planning as a function of management. Develop an understanding about the features, importance and limitation of planning.Planningprocess. identify the steps in the planning process.Singleuse and Standing plans - objective, strategy, policy, procedure, method, rule, budget, programme.</p> <p><b>Ch.11:</b> Understand the concept of marketing. Explain the features ,Functions and philosophies of marketing. Understand the concept of marketing mix.and its elements of marketing &amp; its affectiing factors</p>	<p>Lecture method Question answer session Problem solving method Teaching through power point presenatation Demonstration of video clips of movies related to the concept</p>	<p>1 Class test-2,3 2 Quiz 3 Oral tests 4. Cross word puzzles 5.ASSIGNMENT 2 ASSIGNMENT 3</p>
<b>Practical</b>	Prepare a project on the application of the general principles of management advocated by Fayol or application of Scientific Management Technique by F.W Taylor in the concerned organization				
<b>Chemistry</b>		<b>UNIT 3:</b> 1.Rate of a reaction (Average and instantaneous),	<b>UNIT 3 :</b> learners will be able to 1.Define the average and instantaneous	Lecture method , Question answer method ,	Assignment- 3,4 Class test Objective - 3,4

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Computer Science</b>	Functions Continued Functions: scope, parameter passing, mutable/immutable properties of data objects, passing strings, lists, tuples, dictionaries to functions, default parameters, positional parameters, return values	Student will be able to understand 1.Scope of parameters 2.Mutable & immutable objects passed to functions 3.Diff. methods of Passing parameters	1.. Understanding flow of execution of a program where functions have been used. 2. Recognizing environments created by Python interpreter. 3.Writing function definition and call statement. 4 Finding outputs of Python programs where variables have been used in different scope. 5.Identifying different parameter types and difference between them 6. Applying knowledge of creating functions to the project 7.Identify scope of local and Global variables 8. Evaluate output of given programme with functions	Demonstration , Collaboration, Discussion, Programming in Lab	Quiz, Assignment-2, Making Prpgrammes,Class Test-2
<b>Practical</b>	1.Write a function in python to find out the sum of digits of any integer number. Also implement this function in a Python program.				
<b>Economics</b>	Balance of payments, National income and related aggregates	To make students understand the concept of foreign exchange ,Balance of Trade, Domestic Income, National Income and related aggregates and to make them calculate National Income by different methods.	The students will be able to calculate National Income by different methods and could understand the concepts of BOP and National Income.	Lecture Method, Classroom discussion, Interactive Method and Simplified Notes.	Assignments 3, 4 Class test 2
<b>Practical</b>	A Quiz on short video of Govt budget displayed in the classroom.				
<b>English</b>	Article Writing, Deep Water, Keeping Quiet, Tiger King, Formal/Informal Invitations & Replies	Encourage readers with the ability to fight and overcome tough situations and overwhelming terror, learn about Satire as a literary device- using a combination of humour and sarcasm to fulfill the exercise of criticizing social follies, to be able to understand the relevance of quiet introspection that goes on to promote peace among all human beings. Learning to write invitations & replies and articles on various issues.	Be able to employ her/his communicative skills, with a range of styles, and engage in a discussion in an analytical and creative manner. Ability to identify the different voices and registers and formats- language concepts and how it differs from other writings	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
<b>Activities</b>	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
<b>Geography</b>	<b>BK 1 (Fundamentals)</b> Ch 4 - Primary Activity Ch 5- Secondary Activity, Ch 6 - Tertiary Activity Ch 7 - Transport and Communicatrion <b>Bk 3 (Practical) Ch 3</b> - Graphical Representation of Data	<b>Bk 1 ;</b> Ch 4.To understand various categories of Economic activities. Ch 5. To develop understanding of secondary activities with emphasis on manufacturing Industries. Ch 6.To understand different types of tertiary activity and its importance in the economy. Ch 7.1.To acquire knowledge about various modes of transportation in different continents 7.2To acquire knowledge about various modes of transport in different countries	The students will be able to- Ch 4.1.Define the following terms Economic activity, Primary activity, Red collar worker, Pastoral Nomadism 2.Analyse why is there low yield per acre but high yield per person in areas of extensive grain cultivation. Ch 5.Explain key concepts such as, large-scale manufacturing, high technology industry, organizational set up, foot-loose industries, Agri business. Ch6.1 Describe different types of tertiary activities. 2. Discuss how tertiary, quaternary and quinary activities have replaced jobs in primary and secondary sectors. Ch 7.1. Compare and contrast various modes of transport. 2.Explain the relationship of transport and communication networks to economic development of a region.	1. Lecture Method 2.Inquiry Based Method 3. Project Based Learning 4.Mark and label the terminal stations of Trans-Siberian Railway, Trans Canadian Railway and Trans Australia Railway on an outline world map. 5.Draw a sketch map of Suez Canal, Panama Canal	Class Test Oral Test Assignments- Periodic Test, Half Yearly, Pre Boards Board Exam
<b>Practical</b>	BK 3 Ch 3 ; Graphical Representation of Data		1.Construction of Line graph, Polygraph, Bar, Multiple , compound, pie diagram, Thematic maps - Dot, Choropleth and Isopleth Map.	1. Hands on experience on graphs and India map.	

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>History</b>	CH - 3 KINSHIP, CASTE AND CLASS CH - 4 THINKERS, BELIEFS AND BUILDINGS	1.Familiarize the learner with issues in social History & introduce strategies of textual analysis and their use in reconstructing social History 2. Discuss the major religious developments in early India & Introduce strategies of visual analysis and their use in reconstructing histories of religion	*Analyze social norms in order to understand the perspectives of society given in the scriptures of ancient India. *Examine the varied dimensions explored by historians in order to understand dynamic approach of Mahabharata.	Debate, Study-tour method, Inquiry based method	Modes – Google classroom & face-to-face tests Regular, formative More Competency-based Testing High order thinking skills like analysis, critical thinking, Class test of Ch - 3 & 4
<b>Practical</b>	Poster Designing using Canva				
<b>Hindi</b>	आलोकधर्मा, जेनेद्र कुमार, रिपोर्ट, आलेख, फीचर लेखन, कार्यालयी-पत्र, अपठित- गद्य एवं पद्य	कविता की पहचान, पत्रकारीय लेखन शैली का विकास	कालजयी रचनाओं की व्याख्या से रचनात्मक शैली का विकास, एक श्रेष्ठ पत्रकार की क्षमता	व्याख्या एवं विवेचना	कक्षा परीक्षा
<b>Practical</b>	श्रवण एवं वाचन कौशल				
<b>Home Sci.</b>	UNIT II: Nutrition, Food Science and Technology Ch. 2 Clinical Nutrition and Dietetics Ch. 3 Public Nutrition and Health	<b>Ch. 2</b> 1. Understand and describe the significance and scope of clinical nutrition and dietetics. 2. Describe the role and function of a clinical nutritionist/medical nutrition therapist. 3. Explain the knowledge and skills required for a career in clinical nutrition and dietetics <b>Ch. 3</b> 1. Understand the significance of public nutrition2. Have knowledge about the nutritional problems of public health significance 3. Understand the factors that are linked to nutritional problems4. Describe strategies that can be used to tackle nutritional problems 5. Be acquainted with the programmes that are in operation to tackle important nutritional problems	Students will be able to - <b>Ch. 2</b> 1. Understand, the role of diet, modifications, types of diets and describe the significance and scope of clinical nutrition and dietetics. 2. Describe the role and function of a clinical nutritionist/medical nutrition therapist and their required knowledge and skills in the same field. <b>Ch. 3</b> 1. Acquainted the public health issues, reasons and strategies used to tackle public nutritional problems. 2. Understand the importance of programmes in eradication the public health issues ..	Lecture method Discussion method	Question answer session quiz Assignment no. 2 and 3 -subjective questions class test
<b>Practical</b>	3. Planning a menu for a school canteen or mid-day meal in school for a week.				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Informatics Practices</b>	<b>Unit 1: Ch-2 Data Handling using Pandas-I</b> Data Handling using Pandas *Introduction to Python Libraries,Data Structures in Pandas-Series and DataFrame *Creation of Series from Scalar values, Dictionary,Numpy Arrays * Accessing elements of Series using Indexing and Slicing. *Attributes of Series,Mathematical operations on Series * Creation of DataFrame from Numpy ndarrays,List of dictionaries,Series,Dictionary of Series*	i)To handle real life data using python data structures Series and dataframe. ii) Analyse the data.	Students will be able to: a)Understand about Python libraries. b)Create Series, Dataframes and apply various operations on these two data structures ofpython.	1.Explanation of each topic theoretically. (Demonstration Method) 2. PowerPoint Presentation.(ICT) 3.Explanationwith the help ofprograms.(ICT)	*Series Assignment -1 *DataFrame Assignment 2 (Theory and Practical) *Quiz using Kahoot *Class Test-1(Series) *Class Test-2(DataFrame) * Practical Questions
<b>Practicals</b>	Python Practical- 1.Create a panda's series from a dictionary of values and a ndarray.				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Maths</b>	Ch-3 Matrices (contd.) Ch-4 Determinants Ch-5 Continuity & Differentiability	1. On- commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries) 2. Students will be able to understand Determinant of a square matrix, minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables using inverse of a matrix 3. continuity and differentiability, chain rule, derivative of inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation	Students will be able to 1. Understand invertible matrices and their application to find linear equations in 3- variables 2. Evaluates determinants of different square matrices using their properties. 3. To Demonstrates ways to relate differentiability and continuity of a function with each other,	To apply the properties of continuous functions while discussing those functions that are a combination of functions which are individually continuous. For e.g. 1) $f(x) = \frac{(3x+1)}{(2x+5)}$ to explore and verify in groups the techniques of differentiating functions of a different nature using the earlier learnt concepts. For e.g application of the concept of logarithms can be shown when a need for differentiating functions . Also derivatives of parametric functions can be explored and discussed with others. Discuss the second derivative of a function as an application of the technique of differentiation of functions  Experiential Learning	Assignment 5 & 6 Class Test 4
<b>Practical</b>	Activity no. 5. Based on Continuity and Differentiability	5. To find analytically the limit of a function $f(x)$ at $x = c$ and also to check the continuity of the function at that point.			
<b>Music</b>	Historical Development of Time Theory of Ragas Description of Jhaptaal - Ekgun, Dugun, Chaugun (Theory & Practical )	1. To Develop and increase the knowledge of time allotment of various raagas that each raag has a specific time of singing and particular season too.	1. Students will develop the knowledge in music history. 2.Students will also develop the rhythm skill.	1. Creative music theory lessons. 2. Engaging students by all learning styles 3.Questionnaires & Quizzes.	Assignment-2 Class Test-2
<b>Practical</b>	Practice of Jhaptaal on hand beat with Ekgun, Dugun and Chaugun.				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Painting</b>	Unit-1 Miniature Painting of Pahari schools 1. Origin and development 2. Sub-Schools-Basohli, Guler, Kangra, Chamba and Garhwal 3. Main features of the Pahari School	The ability to interpret a given brief and original approaches to produce a solution	*Relate their work to other artists work and understand the historical context of this work. * Understand the basic principles of colour. * Develop critical awareness.	Through lecture and discussions	Practical Assignment-6-10
<b>Practical</b>	Still Life				
<b>PHE</b>	UNIT-2:-Children & Women in sports	To increase the participation of children & women in sports	For getting higher performance in the field of sports children & women need to be strong enough in both physical & mental .	Lecture method	Class test -2 and Assignment-2
<b>Practical</b>	Practical no 1: SAI Khelo india test	To develop fitness	To develop fitness	Practical method	endurance (600m)

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Physics	Chapter-4:Moving Charges and Magnetism Chapter-5: Magnetism and Matter	<p><b>To make the learners:</b></p> <ul style="list-style-type: none"> <li>-To make the learners understand the concept of relation between electricity and magnetism and analysis of magnetic field for different kind of symmetrical structure.</li> <li>-Ampere circuital law and its applications</li> <li>-To make the learners understand the different kinds of magnetic material</li> </ul>	<p>The students will be able to</p> <ul style="list-style-type: none"> <li>● Identify the presence and direction of a magnetic field around a current carrying conductor Identifies that a charge in a magnetic field experiences a force. Describes the direction of force using screw rule or right hand rule .Identifies Lorentz Force. Derives the expression for force acting on a current carrying conductor placed in a magnetic field. Explains the motion of charged particles in the magnetic field..Extends the knowledge Biot-Savart Law to formulate the expression for the magnetic field due to a current carrying coil. Make use of Ampere’s circuital law, derive the expression for magnetic field of a solenoid. Describes the construction of a moving coil galvanometer. Explains the working of moving coil galvanometer. Derive the relation between deflection and current in the moving coil</li> </ul>	<p>Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching</p>	<p>Assignments of chapter 4 : 8 Class test of Chapter 4: 7,8 Question Bank with solution of Chapter 4 :-4 Assignment of chapter 5: 9 Class test of Chapter 5: 9,10 Question Bank with solution of Chapter 5 : 5 Class tests (Objective and Subjective tests) Quiz</p>
Activities	Galvanometer. Construct an ammeter using a galvanometer. Construct a voltmeter using a galvanometer.To develop problem solving skill.Compare different kinds of magnetic materials and give				

**JULY**



SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Accounts	Chap 5 - Retirement (contd) Chap 6:-Death of a partner Chap 7-Dissolution of a partnership firm	Learner will be able to <ul style="list-style-type: none"> <li>• Adj of capital</li> <li>•Dissolution of firm and preparation of related accounts</li> </ul>	Students will be able to <ul style="list-style-type: none"> <li>-Make adjustment in capital Account and preparation of Loan Account</li> </ul> <b>Ch.6</b> *Develop the skill of calculation of deceased partner's share till the time of his death and prepare deceased partner's and executor's account. * Discuss the preparation of the capital accounts of the remaining partners and the balance sheet of the firm after retirement / death of a partner. *Discuss the preparation of the capitalaccounts of the remaining partners and thebalance sheet of the firm after retirement /death of a partner. <b>Ch.7</b> understand the situations under which a partnership firm can be dissolved. *develop the understanding of preparation of realisation account and other related accounts.	*Problem solving method * Classroom discussion method * Printed worksheet *PPT	Google form test, Class test-5,6, NCERT and other text book exercise qs. Crossword Assignment of numreicals and class test from the completed chapters. ASSIGNMENT-5 ASSIGNMENT-6

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Artificial Intelligence	<i>Capstone Project</i>	<p>Application of Knowledge: Apply the knowledge and skills acquired throughout the academic journey to solve real-world problems or address relevant issues.</p> <p>Critical Thinking and Problem-Solving: Analyze complex problems, devise effective solutions, and demonstrate critical thinking abilities in the project's implementation.</p> <p>Research and Investigation: Conduct in-depth research and investigation to gather relevant information and data necessary for the project.</p> <p>Project Management: Develop project management skills, including planning, organization, time management, and resource allocation.</p> <p>Creativity and Innovation: Encourage creativity and innovative thinking in proposing unique and original solutions or approaches to the problem.</p> <p>Collaboration and Teamwork: Collaborate effectively with peers and mentors to work towards a common goal and successfully complete the capstone project.</p> <p>Presentation and Communication: Improve presentation and communication skills to effectively convey project objectives, progress, and outcomes.</p> <p>Self-Directed Learning: Cultivate a sense of self-directed learning, taking ownership of the project's progress and seeking additional knowledge or skills when needed.</p> <p>Problem Identification and Scope Definition: Identify the problem statement clearly and define the scope of the project to set achievable goals.</p> <p>Ethical Considerations: Consider ethical implications in the project, ensuring integrity, confidentiality, and respect for relevant stakeholders.</p>	<p>Practical Application of Knowledge: Students will apply theoretical concepts and practical skills learned during their academic journey to address real-world challenges effectively.</p> <p><b>Innovative Solutions:</b> Students will propose innovative and creative solutions to the identified problem, demonstrating critical thinking and problem-solving capabilities.</p> <p>Research and Analysis Skills: Students will conduct comprehensive research, collect relevant data, and perform in-depth analysis to support their project objectives.</p> <p><b>Project Planning and Execution:</b> Students will demonstrate project management skills by effectively planning and executing the capstone project within the allocated timeframe and resources.</p> <p><b>Collaboration and Teamwork Abilities:</b> Students will work collaboratively with peers and mentors, effectively contributing to the success of the capstone project.</p> <p><b>Effective Communication and Presentation:</b> Students will confidently present their project's progress and outcomes, effectively communicating their findings to a diverse audience.</p> <p><b>Independent Learning:</b> Students will showcase the ability to learn independently</p>	Demonstration, Lecture, Activity, Project	<i>Practical Worksheet</i>

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
	<b>Entrepreneurial Skills</b>	<p>Business Fundamentals: Understand the basic principles of business, including market analysis, target audience identification, and value proposition.</p> <p>Idea Generation: Develop the ability to generate innovative and viable business ideas.</p> <p>Opportunity Recognition: Learn to identify opportunities in the market and assess their potential for success.</p> <p>Business Planning: Acquire skills to create a comprehensive business plan, including marketing, financial, and operational strategies.</p> <p>Financial Management: Understand financial concepts, budgeting, and financial forecasting for effective business management.</p> <p>Marketing and Sales: Learn marketing strategies and sales techniques to promote products or services effectively.</p> <p>Customer Relationship Management: Develop skills to build and maintain strong relationships with customers.</p> <p>Risk Management: Understand how to identify, assess, and mitigate business risks.</p> <p>Leadership and Team Building: Acquire leadership qualities and team-building skills to</p>	<p>Business Idea Development: Individuals will be able to conceptualize and refine business ideas with commercial potential.</p> <p>Opportunity Identification: Learners will identify and assess business opportunities in various market segments.</p> <p>Effective Business Planning: Individuals will create well-structured and comprehensive business plans with clear objectives and strategies.</p> <p>Financial Competence: Learners will understand financial management principles and apply them to make informed business decisions.</p> <p>Marketing and Sales Competency: Individuals will develop effective marketing and sales strategies to reach their target audience.</p> <p>Customer Relationship Building: Learners will build and maintain strong relationships with customers, focusing on customer satisfaction and loyalty.</p> <p>Risk Mitigation: Individuals will employ risk management techniques to</p>	Demonstration, Lecture, Activity, Project	Quiz, Worksheet
<b>Biology</b>	Ch-6.Molecular basis of inheritance Ch-7 Evolution	<b>Ch-6</b> 1. Search for genetic material and DNA and RNA .	<b>Ch-6</b> 1.Concept of DNA and its structure is developed.	Recapitulation, lecture method , question answer method ,videos related to topics ,flipped	Assignment-5 Assignment-6 Prepare a chart on salient features
<b>Practical</b>	Expt-6: To study T.S of blastula				
<b>Business studies</b>	Ch.5 : Organising Ch. 6: Staffing	Learner will be able to • To familiar with all the dimensions of	After going through this Unit, the students will be able to	Lecture method Question answer session Problem solving	Oral Test , Quiz Class Test-4,5 NCERT Exercise Questions



SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Computer Science</b>	<p>File handling: Need for a data file, Types of file: Text files, Binary files and CSV (Comma separated values) files.</p> <ul style="list-style-type: none"> <li>Text File: Basic operations on a text file: Open (filename – absolute or relative path, mode) / Close a text file</li> </ul>	<p>Student will be able to understand the</p> <ol style="list-style-type: none"> <li>1. Concept of text file handling.</li> <li>2. File Types: Text, Binary and CSV</li> <li>3. Modes of file: -r, w, r+, w+, a, a+, x</li> <li>4. Function related with file: - open(), close(), read(), readline(), readlines(), write(), writelines(), flush(), seek(), tell()</li> <li>5. They will be able to understand need for file handling.</li> <li>6. They will be able to write python programs to read, write into files.</li> <li>7. The students will be able to give differences between text and binary file.</li> </ol>	<ol style="list-style-type: none"> <li>1. Writing python programs to read, write into files.</li> <li>2. Differences between text and binary file.</li> <li>3. Understanding need of file handling</li> </ol>	Discussion, Demonstration, Powerpoint Presentation	Quiz, Class Test-3, Assignment-3
<b>Practical</b>	1. Write a Python Program to read a text file. Find out the total number of words available in this file.				
<b>Economics</b>	Determination of Income and Employment, Indian Economy on the eve of independence	To make students understand the concept of Aggregate demand, Aggregate supply and their components, Inflationary & Deflationary gaps and the situation of Indian economy before and during independence.	The students will be able to recall and understand the concept of Aggregate demand and Aggregate supply & impact of National income on AD & AS, working of monetary and fiscal policy and state of Indian economy on the eve of independence.	Lecture Method, Classroom discussion, Interactive Method and Simplified Notes.	Assignments 5, 6 Class test 3
<b>Activities</b>	An exchange rate risk experiment with multiple currencies.				
<b>English</b>	Indigo, Rattrap, A Thing of Beauty, Journey to the End of the Earth	Learn to make the right choices in the face of difficulties and learn to value humanity above everything else, develop ability to make cross-curricular linkage and gain an understanding of the beginning of the Civil Disobedience Movement, learning to reaffirm faith in the fact that one act of kindness can redeem the depraved, appreciate this poetry, which makes us realize the importance and relevance of tranquility and serenity, sensitizing towards the impact of man's actions on the planet and its repercussions.	Be able to use language creatively and imaginatively in text transaction and performance of activities, be able to develop sensitivity towards their culture and heritage, aspects of contemporary life and languages in and around the classroom, be able to employ her communicative skills, with a range of styles, and engage in a discussion in an analytical and creative manner.	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
<b>Activities</b>	ALS- Listening Skill Activity	To 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
<b>Geography</b>	<b>BK 1 (Fundamentals)</b> Ch 8 - International Trade <b>Bk 2 (India people and Economy)</b> Ch 7- Transport and communication, Ch 8 - International Trade Ch 2 - Human Settlement Ch 3 - Land Resources and Agriculture <b>Bk 3 (Practical)</b> Ch 2 - Data Processing	<b>Bk 1.</b> Ch 8. Familiarize the students with the basic concepts and principles of International Trade. <b>Bk 2</b> Ch 7.1. To acquire knowledge about various means of transport spread in different parts of India. 7.2.To compare and correlate various modes of transport to the physical regions of India. Ch 8.To familiarise students about the changes that have taken place in India's international trade in terms of volume, composition and direction. Ch 2.To understand how the form and size of settlement of any particular region reflects human relationship with the environment. Ch 3.1.To familiarise students with the land-use categories as maintained in the land revenue records. 2.To analyse the changes in landuse pattern registered in India due to change in shares of primary, secondary and tertiary sectors in GDP.	The students will be able to- <b>Bk 1</b> Ch 8 .1.Define international trade and describe how it impacts various countries 2. Describe the basis of International Trade. <b>Bk 2</b> Ch 7.1. Analyse the impact of the physical environment on development of various modes in different regions. 2.Describe the five National Waterways of our country. Ch 8.1 Give reasons for changing pattern of the composition of India's import and export. 2.Evaluate the role of sea ports as gateways of international trade with examples. Ch 2.1 Differentiate between rural and urban settlement. 2. Describe the factors that govern the types of rural settlement in India. 3. Describe the evolution of towns in India since prehistoric times. Ch 3.1. Name and define the land use categories.	1. Lecture Method 2. Interactive Method 3. Inquiry Based Method - Read the case Study on dumping and discuss how dumping is becoming a serious concern among trading nations. 4. Project based Method 5.Draw a flow chart to show the means of transportation. 6. Prepare a concept map showing different means of transportation, its advantages and disadvantages.	Oral Test Class test Assignments, Periodic Test, Half Yearly, Pre Board, Board exam
<b>Practical</b>	BK 3 Ch 3 ; Graphical Representation of Data (Continued)	To represent data graphically using different tec	1.Construction of Line graph, Polygraph, Bar, Multiple , compound, pie diagram, Thematic maps - Dot, Choropleth and Isopleth Map.	1. Hands on experience on graphs and India map.	

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>History</b>	CH - 5 THROUGH THE EYES OF TRAVELLERS CH - 6 BHAKTI-SUFI TRADITIONS CH - 7 AN IMPERIAL CAPITAL VIJAYANAGARA CH - 8 PEASANTS, ZAMINDARS AND THE STATE	<ul style="list-style-type: none"> <li>●Familiarize the learner with the salient features of social histories described by the travellers.</li> <li>●Discuss how traveller’s accounts can be used as sources of social history. ● Familiarize the learner with the religious developments.</li> <li>● Discuss ways of analyzing devotional literature as sources of history. ●Familiarize the learner with the new buildings that were built during the time.</li> <li>●Discuss the ways in which architecture can be analyzed to reconstruct history.</li> <li>●Discuss the developments in agrarian relations.</li> <li>● Discuss how to supplement official documents with other sources.</li> </ul>	The competency to analyze, evaluate, interpret and apply The acquired knowledge to determine the calculation of geographical data effectively.	Flipped classroom, co-operative learning, experiential learning, blended learning, case-study method	Remedial teaching & follow up, Designing Mlls for slow-learners Class test of Ch - 5 & 6 ; Class test of Ch - 7 & 8
<b>Practical</b>	Mind Mapping (via Mindmup 2.0/Mindmeister)				
<b>Hindi</b>	कुँवर नारायण, रघुवीर सहाय, धर्मवीर भारती, फणीश्वरनाथ रेणु	विज्ञान और विश्वास कौसुंदर व्याख्या एवं जलसंरक्षण , लोककलाओं का ज्ञान	जलसंरक्षण के विकल्पों काज्ञान, लोककलाओं द्वारा जिजीविषा बनाए रखने का सबल प्रयास	व्याख्या एवं विवेचना	प्रश्नोत्तरलेखन , अभ्यासकार्य
<b>Activities</b>	पोर्टफोलियो				
<b>Home Sci.</b>	Ch.4 Food Processing and Technology	<b>Ch 4-1.</b> What is food processing and technology, its history, development and	Students will be able to - <b>Ch.4</b>	Lecture cum discussion method AV aids	Assignment no. 4,5 and 6 Quiz on Ch. Food Quality and Food
<b>Practical</b>	5. Qualitative test for food adulteration in: pure ghee, tea leaves, whole black pepper, turmeric powder, milk, asafoetida.				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Informatics Practices</b>	Unit 1: Ch-2 Data Handling using Pandas-Operations on rows and columns in DataFrames Like Adding a Row/Column,Deleting a Row/Column,Renaming Row/Column/Accessing DataFrame Elements through Indexing -Label and Boolean Indexing,Slicing * Attributes of DataFrame *Pandas Series Vs NumPy ndarray mporting and Exporting Data between CSV Files and DataFrames *Iteration of Dataframes *Joining ,Merging and Concatenation of DataFrames	i)To handle real life data using python data structures Series and dataframe. ii) Analyse the data. iii)Apply import and export csv files and dataframe to store and analyse real life data using pandas.	Students will be able to: a)Dataframes and apply various operations on these two data structures ofpython. B)How to Add row/column in a dataframe c)Hoew to Delete Row /Column d)How to import/export csv files e)How to rename Row/Column f)How to apply labela nd boolean indexing g)Importing and Exporting Data between CSV Files and DataFrames h)Appy the concept to store andanalyse reallife data using pandas.	1.Explanation of each topic theoretically. (Demonstration Method) 2. PowerPoint Presentation.(ICT) 3.Explanationwith the help ofprograms.(ICT)	*DataFrame Assignment 2 (Theory and Practical) *Quiz using Kahoot *Class Test-1(Series) *Class Test-2(DataFrame) * Practical Questions
<b>Practicals</b>	3. Data Frames: Creation of data frames from dictionary of series, list of dictionaries, text/CSV files, display, iteration. Operations on rows and columns: add ( insert /append) , select,delete (drop				



SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Maths</b>	Ch-5 Continuity & Differentiability(contd.) Ch-6 Application of Derivatives Ch-7 Integrals	1. derivative of functions expressed in parametric forms. Second order derivatives, rate of change of bodies, 2. To to acquire knowledge and critical understanding about rate of change and increasing/decreasing functions, maxima and minima . Simple problems (that illustrate basic principles and understanding of the subject as well as real- life situations. 3. Introducing Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, product rule of finding integrals(ILATE)	Students will be able 1. To understand Physical interpretation of derivative of a function 2. Students will be able to know various application of derivatives, 3. Develops the processes in Integral calculus based on the ideas of differential calculus learnt earlier and solving problems of Integration	1.Using graph to explain increasing,decreasing function and maxima minima, also taking various example from daily life situation, 2. Do an activity to get an idea of integration of a function: having given some simple functions they may explore those functions whose derivatives result in the given functions. For e.g. given $f(x) = x+2$ , students after discussion may come out with a function $g(x) = x^2/2 + 2x$ such that $g'(x) = f(x)$ .	Oral Test,Subjective Test and Assignments Assignment no. 7, 8 Class Test - 5,6
<b>Practical</b>	Activity 6 based on increasing & decreasing function	6. To understand the concept of increasing and decreasing function.		Experiential Learning	
<b>Music</b>	Dhamar Tala & Ropak Tala Sangeet Ratnakar's summary	Students should be able to explain the taught work	1. Students will be able to understand the difference between both the talas 2. They will be knowing the importance of sangeet Ratnakar in music	Using musical instruments and other aids	Oral Test,Quizzes etc
<b>PHE</b>	UNIT-3:-Yoga as preventive measure for lifestyle disease	For mental and physical well being	Yoga is beneficial in preventing the various type of deceases like diabetes, asthma back pain, hypertension, obesity. To make them aware about yoga is an activity to correlate body with a mind that makes human life happy and tension free.	Lecture and Demonstration method	Class test -3 and Assignment 3
<b>Practical</b>	Practical no 1: SAI Khelo India test	To increase motor ability	Fitness	Practical method	Strength(Puss-up and Curl-up)

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Physics	Chapter:6 Electromagnetic Induction, Chapter :7 Alternating currents,Chapter–8: Electromagnetic Waves	To make the learners understand -The concept Electromagnetic Induction of single and double coil. -The application based concept of Electromagnetic Induction (Generator, Transformer) -Generation and real life application of electromagnetic wave depending upon the value of wavelength and frequency.	Student will be able to:  -Learn about the different methods to induce an emf in a given conductor - Understand the concept of Mutual and self induction. - Acquires the basic knowledge about the Principle, construction, working and real life application of Transformer and Dynamo -Gain knowledge about the Practical applications of EMW in our Daily life	Guided learning with independent practice Brainstorming Student-teacher interaction Hybrid teaching	Assignments of chapter 6: 10 Assignment of chapter 7: 11 Assignment of Chapter 8: 12,Class test of Chapter 6: 11,12 Class test of Chapter 7: 13,14,Class test of Chapter 8 : 15 Question Bank with solution of Chapter 6 :-6 Question Bank with solution of Chapter 7 :-7 Question Bank with solution of Chapter 8 : 8

**Activity** # 1 : To determine resistivity of two / three wires by plotting a graph for potential difference versus current.

## August

Accounts	Chap – 8 -Accounting for Share capital Chap -9 – Issue of Debentures	Learner will be able to • Explain the basic nature of a joint stock company as a form of business organisation and the various kinds of companies based on liability of their members; • Describe the types of shares issued by a company;and accounting treatment in case of issue of shares and debentures	<b>Students will be able to</b> <b>Ch. 8</b> develop the understanding of accounting treatment of forfeiture and re-issue of forfeited shares. *Describe the presentation of share capital in the balance sheet of the company as per schedule III part I of the Companies Act 2013. <b>Ch. 9</b> * Explain the accounting treatment of different categories of transactions related to issue of debentures. * Develop the understanding and skill of writing of discount / loss on issue of debentures. * Understand the concept of collateral securityand its presentation in balance sheet. * Develop the skill of calculating interest on debentures and its accounting treatment.	*Problem solving method * Classroom discussion method * Printed worksheet *PPT	*Google form test, *Class test-7, NCERT and other text book exercise qs. * Crossword *Assignment of numreicals and class test from the completed chapters. ASSIGNMENT-7
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SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Artificial Intelligence	Self management Skills and AI Model Cycle	Effective Formulas and Functions: Students will use Excel formulas and functions to perform	AI Fundamentals Proficiency: Students will demonstrate a solid understanding	Demonstration, Lecture, Activity, Project	Practical Worksheet
		Self-Awareness: Develop a deeper understanding of one's emotions, strengths, weaknesses, values, and beliefs.	Increased Self-Awareness: Individuals will have a better understanding of their emotions, strengths, and areas for improvement.		Practical Worksheet
		<p>Goal Setting: Learn how to set realistic and achievable short-term and long-term goals.</p> <p>Time Management: Acquire skills to prioritize tasks, set deadlines, and use time efficiently.</p> <p>Stress Management: Understand stress triggers and develop coping mechanisms to handle stress effectively.</p> <p>Adaptability: Enhance the ability to adapt to changes and challenging situations.</p> <p>Self-Motivation: Cultivate self-motivation and perseverance to stay focused on tasks and overcome obstacles.</p> <p>Decision Making: Develop critical thinking skills to make informed and well-considered decisions.</p> <p>Problem-Solving: Learn problem-solving techniques to address challenges and find effective solutions.</p> <p>Emotional Regulation: Develop skills to manage and express emotions appropriately.</p> <p>Resilience: Strengthen resilience to bounce back from setbacks and failures</p>	<p>Goal Achievement: Learners will be able to set and achieve realistic and meaningful goals.</p> <p>Effective Time Management: Individuals will be able to prioritize tasks and manage their time efficiently to meet deadlines.</p> <p>Stress Reduction: Individuals will develop coping strategies to manage stress effectively.</p> <p>Adaptability and Flexibility: Learners will demonstrate an ability to adapt to changes and handle challenging situations.</p> <p>Enhanced Self-Motivation: Individuals will exhibit self-motivation and determination to stay focused on tasks and achieve their objectives.</p> <p>Improved Decision Making: Learners will make well-informed and thoughtful decisions.</p> <p>Effective Problem Solving: Individuals</p>		Quiz , worksheet

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Biology</b>	Chapter.10:Microbes in Human welfare Chapter15:Biodiversity and conservation	<p><b>Ch-10</b></p> <ol style="list-style-type: none"> <li>1. Importance of microbes in everyday life.</li> <li>2. Importance in agricultural production.</li> <li>3. Sewage treatment and energy generation..</li> <li>4. Role of microbes as biocontrol agents and biofertilisers.</li> <li>5. Production of antibiotics and its judicious use.</li> </ol> <p><b>Ch-15</b></p> <ol style="list-style-type: none"> <li>1. Concept of biodiversity</li> <li>2. Importance of biodiversity</li> <li>3. Loss of biodiversity; reasons and solutions.</li> <li>4. Conservation of biodiversity.</li> <li>5. Biodiversity hotspots.</li> <li>6. Concept of endangered ,extinct and vulnerable organisms</li> <li>7. Red data book</li> <li>8. Ex-situ and in –situ conservation</li> </ol>	<p>Students will be able to-Students will be able to-</p> <ul style="list-style-type: none"> <li>-Know the importance of microbes in day to day life.</li> <li>-Role of antibiotics, its use and its manufacture. Role of microbes as biocontrol agents.</li> </ul>	<p>Situational anecdotes, Live examples,Our planet movies,Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching,</p>	<p>Assignment-7 Make a project on various useful microbes. Worksheets Sample papers Sample worksheets CBSE sample papers. Make a project on various ex situ and in situ conservation strategies</p>
<b>Practical</b>	Expt:10 To study the prepared pedigree charts of genetic traits				
<b>B.st</b>	Ch. 7: Directing Ch.8: Controlling	Learner will be able to - Explain all the elements of directing such as	Students will be able to <b>Ch-7 Directing</b>	Lecture method Question Answer session Problem solving	Oral Test , Class Test-6,7 NCERT Exercise Questions
<b>Activities</b>	Preparation of a logo of a company				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Chemistry	<p><b>UNIT 7: ALCOHOLS , PHENOLS AND ETHERS</b></p> <p><b>UNIT 8: ALDEHYDES , KETONES AND CARBOXYLIC ACIDS</b></p>	<p><b>UNIT 7 :</b></p> <p>1 Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols , Phenols nd ethers ),</p> <p>2.identification of primary, secondary and tertiary alcohols, mechanism of dehydration, 3.uses with special reference to methanol and ethanol.</p> <p>4.acidic nature of phenol, electrophilic substitution reactions, uses of phenols. uses of Ethers</p> <p><b>UNIT 8:</b></p> <p>1.Nomenclature, nature of carbonyl group, 2.methods of preparation, physical and chemical properties,</p> <p>3.mechanism of nucleophilic addition 4.reactivity of alpha hydrogen in aldehydes, uses.</p> <p>5.Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.</p>	<p><b>UNIT 7 :</b></p> <p>1.students will be able to 1.name alcohols, phenols and ethers according to the IUPAC system of nomenclature;</p> <p>2.discuss the reactions involved in the preparation of alcohols , phenols and ethers</p> <p>3. correlate physical properties of alcohols, phenols and ethers with their structures</p> <p>4.discuss chemical reactions of the three classes of compounds.</p> <p><b>UNIT 8:</b></p> <p>1.Students will be able to1. write the common and IUPAC names</p> <p>2. write the structures of the compounds</p> <p>3.describe the important methods of preparation and reactions of these compounds</p> <p>4.correlate physical properties and chemical reactions with their structures</p> <p>5.explain the mechanism of a few selected reactions</p> <p>6.understand various factors affecting</p>	<p>Lecture method ,</p> <p>Question answer method ,</p> <p>Videos related to topics ,</p> <p>Blended learning,</p> <p>Brainstorming ,</p> <p>Chalkboard instruction,</p> <p>Classroom discussion</p>	<p>Assignment-7,8</p> <p>Class test Objective -7,8</p> <p>Class test Subjective -7,8</p> <p>Quiz-7,8</p>
<b>Computer Science</b>	*Text Files Reading and Manipulation	Students will be able to : 1. Write program to read text files,manipulate	Student will be able to work on text files - Identify Text Files	Discussion, Demonstration	Assignment-4, Worksheets, Quiz, Class Test-4
<b>Practical</b>	1.Write a program in Python to read a text file line by line and print it on the screen.				
<b>Economics</b>	Development Experience (1950 - 1990), Economics Reforms since 1991	To enable the students to understand the impact of economic plan on Indian economy, the achievements and failures of economic plans and the concepts related to NEP 1991.	The students will have a clear understanding of the concepts of economic plans and economic reforms.	Lecture Method, Classroom discussion, Interactive Method and Simplified Notes.	Assignments 7, 8. Class test 4.
<b>Activities</b>	Describing a game played on paper to introduce the concept of a public good.				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
English	The Interview, A Roadside Stand, The Enemy	To get an insight into the life of the poor caught in a web of poverty and the desire to escape it. An objective study to assess the form and style of tackling issues of social discontent, leading to an escapist mind set. Awakening of dormant attitudes to understanding why India's teeming millions wallow in poverty. Getting to know celebs through interviews and understand the importance and disadvantages of interviews, reinforce concerns regarding the burning issue of global warfare and its impact on common man and his faith on humanity.	Be able to use language creatively and imaginatively in text transaction and performance of activities, be able to develop sensitivity towards their culture and heritage, aspects of contemporary life and languages in and around the classroom.	Using self made PPTs, video links, info from various sites, historical significance, NCERT and other self made notes	Class Tests (objective & subjective), Assignments
Practical	ALS- Listening Skill Activity	To 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	<p><b>Bk 2 (India People and Economy)</b>            Ch 3 - Land resources and Agriculture continued., Ch 4 - Water Resources, Ch 5 - Mineral and Energy Resources. Ch 6 - Planning and sustainable development in Indian context, Ch 9 - Geographical Perspective on selected issues and planning.</p>	<p>Ch 3. To familiarise students about the water resources available in India and the factors that determine spatial distribution of the available water resources in the country and its utilization.            Ch 4. Describe that primary activities is oldest occupation, practiced in harsh climatic conditions            Ch 5.1 To know about distribution of various minerals in the world.            2. To understand and realize the importance of minerals in human life.            Ch 6. To understand the need for centralised planning (sectoral planning and regional planning) to accelerate uniform economic development over space as well the role of NITI Aayog.            Ch 9. To explain the causes and consequences of different types of pollution in India and suggest the measures to control it.</p>	<p>The students will be able to-            Ch 4.1. Describes the available water resources in India.            2. Evaluates the water demand and supply in India.            3. Discuss the reasons for water scarcity in the country.            4. Discuss water resources in India, its geographical distribution.            Ch 5.1. Classify minerals on the basis of chemical and physical properties. 2. Analyse why the renewable energy resources will be the future source of resources.            Ch 6. Develop an understanding about various types of planning. Ch 9. Classify types of pollution based on the medium through which pollutants are transported and diffused.</p>	<p>1. Lecture Method            2. Inquiry Based Method - Identify the most polluted stretch of river Ganga and river Yamuna on an outline map.            3. Project based Method</p>	<p>Oral Test            Class Test Assignments            Periodic test            Half Yearly            Pre Board            Board Exam</p>
History	<p>CH -10 COLONIALISM AND THE COUNTRYSIDE            CH -11 REBELS AND THE RAJ            CH -13 MAHATMA GANDHI &amp; THE NATIONALIST MOVEMENT</p>	<p>*Discuss how colonialism affected zamindars, peasants and artisans, Comprehend the problems and limits of using official sources for understanding the lives of people *Discuss how the events of 1857 are being reinterpreted, Discuss how visual material can be used by historians *Familiarize the learners with significant elements of the nationalist movement and the nature of Gandhian leadership, discuss how Gandhi was perceived by different groups, discuss how historians need to read and interpret newspapers, diaries and letters as historical source</p>	<p>*The competency to analyze, evaluate, interpret and apply            *The acquired knowledge to determine the calculation of geographical data effectively.</p>	<p>PPT, Video, happy classroom techniques, competency based learning, collaborative learning</p>	<p>Minds mapping using mindmeister and mindmup 2.0 &amp; quizzes on hot potatoes or kahoot            class test of ch - 10 &amp; 11</p>
Practical	Collage Making and Project work				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Hindi	शमशेर बहादुर सिंह,सूर्यकांत त्रिपाठी 'निराला', मनोहर श्याम जोशी,आनंद यादव	प्रकृतिसौंदर्य से परिचय ,भारतीय सभ्यता एवं पाश्चात्य सभ्यता कासमंन्य	प्रकृति साहचर्य ,प्रत्येक वर्षगाँठ महत्वपूर्ण सिल्वर जुबली ही क्यों	व्याख्याएवंविवेचना	अभ्यास कार्य
Practical	श्रवण एवं वाचन परीक्षा, पोर्टफोलियो				
Home Sci.	Ch.7 Management of Support Services, Institutions and Programmes for Children, Youth and Elderly UNIT IV: Fabric and Apparel Ch.8 Design for Fabric and Apparel	<b>Ch.7</b> 1.Explain why services, institutions and programmes are needed for children, youth and elderly 2. Describe the aspects involved in management of institutions and programmes 3.Discuss the knowledge base and skills set required to manage and run institutions and programmes 4.Become aware of the career opportunities available in this field. <b>Ch 8</b> 1.Discuss the concepts of design 2.Recognise the elements that constitute design 3.Explain the application of design principles for fabric and apparel 4.Discuss how a student can prepare for a career in the field.	Students will be able to - <b>Ch.7</b> 1.know the importance of services, institutions and programmes needed for children, youth and elderly. 2.know the various programmes run by govt. for the above. 3.Role of services in national development . 4.Aware of the aspects involved in management of institutions and programmes,knowledge and skills required to manage and run institutions and programmes. <b>Ch.8</b> 1. Know the basics of dress design and use and effects of the elements and principles of design. 2. Apply the application of elements and principles of design for fabric and apparel. 3.Know the skill requirements and how to prepare for a career in the field.	lecture method AV aids learning by Doing	Assignment no. 7and 8 Class Test Quiz
Practical	7.. Preparation of any one article using applied textile design techniques; tie and dye/batik/block printing.				



SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Informatics Practices</b>	Ch-4 Data Visualization-Plotting Data using Matplotlib i) Purpose of plotting; drawing and saving following types of plots using Matplotlib: line plot, bar graph, histogram. ii) Customizing plots: adding label, title, and legend in plots. Ch-7 Project based learning Introduction » Approaches for Solving Projects » Teamwork » Project Descriptions	Ch-4 i)To visualize real life data using visual elements like charts and plots. ii) Analyse the data. Ch-7 Project Based Learning -Different techniques used to make a project -Different ypes of project	Ch-4 Students will come to know about  *Represent data using charts and plots. *Importance of Histogram,Bar and Line Chart *Customization of Plots Ch-7 Project Based Learning -Different approaches to make project -Components of Teamwork -Different types of projects	1.Explanation of each topic theoretically( Demonstration Method) 2. PowerPoint Presentation.(ICT) 3. Explanation with the help ofprograms.(ICT)	*Assignment-3 CSV Files *Assignment-4-Pyplot (Theory and Practical) *Quiz *Class Test-3-Pyplot *Practical Questions Project work in Teams
<b>Practical</b>	4. Create a Data Frame quarterly sales where each row contains the item category, item name, and expenditure.Group the rows by the category and print the total expenditure per category.				
<b>Maths</b>	Ch-7 Integrals(contd.) Ch-8 Application of Integrals	1. Definite integral, Fundamental theorem of calculus, Evaluation of definite integral by substitution, Properties of definite integrals. 2. Applications in finding the area under simple curves	Student will be able to 1. Understand definite integral, fundamental theorem of calculus, Properties of definite integrals 2. Applies the concepts of Integral calculus to calculate the areas enclosed by curve,	Discuss in groups meaning of definite integrals and their properties, uses of definite integrals in real life scenario. Discuss application of integrals to find area under the curve	Oral Test , Assignment 9, 10 Class Test 7
<b>Music</b>	Critical study and writing in Notation of the compositions of Raag Bhairav(Drut khayal, Tarana) and recognizing raag from phrases of swars.(Theory & Practical )	1. Promote the highest level of human aspiration and artistic integrity through the composition & performance. 2. Develop an analytical creative and intuitive understanding of music.	Will develop the ability-- 1. Voice to develop and express musical ideas. 2. Sing rhythmically, in tune, in harmony and sing from notations. 3. Sing expressively in a variety of styles.	Individual singing in class room ( any song based on raaga) Singing practice with proper breathing.	Practical Assignment(Singing)-4
<b>Practical</b>	Practice of Notation of Raag Bhairav of Drut Khayal (singing)				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Painting</b>	Unit-2 Miniature Painting of the Deccan schools The Deccan School 1. Origin and development 2. Main features of the Deccan School 3. Appreciation of the following Deccan paintings: Unit-3 The Bengal School of Painting and the Modern trends in Indian Art (About the beginning to mid of the 20th Century) (i) National Flag of India and the Symbolic significance of its forms and the colours	Discuss and relate own work to recognize artists work	Relate their work to other artists work and understand the historical context of this work. ☑ Understand the basic principles of colour. ☑ Develop critical awareness.	Through lecture and discussions	Practical Assignment-15-20
<b>Practical</b>	Landscape-Nature Study				
<b>PHE</b>	Unit-4:-Physical education for CWSN Unit-5:-Sports and Nutrition	To simulation students about balance diet and adaptive physical education	Know the importance of balance diet to enhance sports performance Develop Competency in movement and give them equal opportunity	Lecture method and task teaching	Class test-4 and class test 5. Assignment -4 and Assignment-5
<b>Practical</b>	Practical no 1: SAI Khelo India test	To develop motor skill	Fitness	Practical method	Flexibility (sit and reach test) and BMI
<b>Physics</b>	Chapter–9: Ray Optics and Optical Instruments Chapter–10: Wave Optics	To make the learners to understand : -The applications of different lenses, mirrors and optical instrument in our daily life. - Difference between ray optics and wave optics and different optical phenomena such as interference and diffraction of light wave.	Student will be able to: -Understand about the different types of mirror and lenses -Draw respective ray diagrams for image formation along the mathematical tactics and Analysis. -Watch different optical phenomena of in our daily life like Colour of a sky and cloud, Advanced sunrise and delayed sunset etc. -Differentiate between the ray and wave nature of a light	Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching	Assignments of chapter 9 : 13,14 Assignment of chapter 10: 15,16 Class test of Chapter 9: 16,17 Class test of Chapter 10: 18,19 Question Bank with solution of Chapter 9 :-9 Question Bank with solution of Chapter 10 :- 10

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>ACTIVITY</b>	#4: To verify the laws of combination (series) of resistances using a metre bridge.				
<b>September</b>					
<b>Accounts</b>	(PART-B ) Chapter 9 -contd---Chap – 1 – Financial Statements of a company Chap- 2- Financial Statement Analysis Chapter-3 Tools for Financial analysis Chap—4- Accounting Ratios (CONTD.)	Learner will be able to : • Explain the nature and significance of financial analysis; *Describe the form and content of Statement of Profit and Loss and balance sheet of a company as per schedule III; *Calculate and interpret the various ratios calculated for intra-firm and interfirm comparisons.	<b>Students will be able to</b> <b>PART B</b> <b>CH.1</b> * Develop the understanding of major headings and sub-headings (as per Schedule III to the Companies Act, 2013) of balance sheet as per the prescribed norms / formats. <b>CH.2</b> *State the meaning, objectives and limitations of financial statement analysis. <b>CH. 4</b> *State the meaning, objectives and significance of different types of ratios. *Develop the understanding of computation of current ratio and quick ratio.	*Problem solving method * Classroom discussion method *Printed worksheet *PPT	Google form test, Class test-8, NCERT and other text book exercise qs. * Crossword Assignment of numericals and class test from the completed chapters. ASSIGNMENT-8
<b>Activities</b>	Review of Annual Report of a company				
<b>Artificial Intelligence</b>	<i>Green Skills</i>	Understanding Sustainable Practices: Learn the principles and importance of sustainable practices in various domains such as energy,	Environmental Consciousness: Students will demonstrate an increased awareness of environmental issues and	<i>Demonstration, Lecture, Activity, Project</i>	<i>Quiz, worksheet</i>

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Biology</b>	Chapter11:Biotechnology Principles and processes Chapter 12: Biotechnology and it's applications	1. Introduction to the concept of biotechnology and its applications. 2. Principles and processes. 3. Method of genetic engineering 4. Formation of rDNA. ..... Ch-12 1. Concept of human insulin and vaccine production. 2. Stem cell technology 3. Gene Therapy 4. Genetically modified organisms-Bt crops, Transgenic animals. 5. Biosafety issues 6. Biopiracy and patents.	Ch-11 1.Know the concept of biotechnology and its applications, 2.How this can be used in different methodologies 3.Formation and implications of rDNA. Ch-12 1.The students will be able to understand the concept of gene therapy and its applications in various diseases 2.The use of various GMOs and their benefit to organisms.	Flipped classrooms ,blended learning, brainstorming ,case studies, chalkboard instruction,class projects,classroom discussion,Lecture method,Videos and Ppts	Assignment-8 and 9 To Prepare a project on recombinant DNA technology Solve last year sample papers To prepare a project on artificial insulin production by Eli lily technology. To make a chart on various GMOs both plants and animals.  CBSE sample papers worksheets
<b>Practical</b>	Expt-13:To study Different water samples for PH,Clarity and presence of any living organism				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
B.st	Ch.9: Financial Management Ch. 10: Financial Market	Learner will be able to to learn about various financial decisions and their affecting factors and the importance of financial planning.and the various types of market through which the funds can be raised.	<p><b>Ch.9</b> * Ch.9: Financial Management: Understand the concept of financial management. *Explain the role of financial management in organisation. *Discuss the objectives of financial management.*Discuss the three financial decisions and the factors affecting them. Students will be able to - Describe the concept of financial planning and its objectives.Explain the importance of financial planning.Understand the concept of capital structure.Describe the factors determining the choice of an appropriate capital structure of a company.Understand the concept of fixed and working capital.Describe the factors determining the requirements of fixed and working capital.</p> <p><b>Ch.10:</b> Understand the concept of financial ,Money and Capital market.Explain primary and secondary ,markets as types of capital market. Differentiate between capital market and money market. Distinguish between</p>	Lecture method Question answer session Problem solving method Teaching through power point presenstation	Oral Test , Class Test-8 NCERT Exercise Questions Case Study questions ASSIGNMENT 8
B.st Activities	Drawing of a label of a product				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Chemistry	<b>UNIT 9: AMINES</b>  <b>UNIT10 : BIOMOLECULES</b>	<b>UNIT 9 :</b> 1. Nomenclature, classification, structure, 2.methods of preparation, physical and chemical properties, 3 uses, identification of primary, secondary and tertiary amines. 4.Diazonium salts: Preparation, chemical reactions and 5.importance in synthetic organic chemistry.  <b>UNIT10 :</b> 1. Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); 2.Importance of carbohydrates. 3.Proteins -Elementary idea of - amino acids, peptide bond, polypeptides,primary, secondary, tertiary structure and quaternary structures (qualitative idea only), 4.denaturation of proteins; enzymes. Hormones 5.Vitamins - Classification and functions. 6.Nucleic Acids: DNA and RNA	<b>UNIT 9 :</b> From this chapter, learners will be able to 1.describe amines as derivatives of ammonia 2.Classification and differences of amines as primary, secondary and tertiary. 3.Naming of amines by common names and IUPAC system. 4.Describe important methods of preparation of amines, diazonium salts and their importance  <b>UNIT10 :</b> After studying this Unit, students will be able to 1.explain the characteristics of biomolecules like carbohydrates, proteins and nucleic acids and hormones; 2.classify carbohydrates, proteins, nucleic acids and vitamins on the basis of their structures; 3.explain the difference between DNA and RNA;	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
<b>Computer Science</b>	Binary Files and CSV files Binary File Basic operation on binary file -open() -close() -using pickle module 1. load() 2. dump() -read -write/create -search- append - update	Student will be able to understand the Concept of 1.Open,Close,Read/write binary and CSV files 2.Pickle module:-load,-dump 3. Search,Append,update Binary and CSV files.	1. Knowledge of binary file,Comma Separated Files. 2. Explain Pickling and Unpickling 3. Use functions load and dump in binary files. 4. Understand use of CSV module 5. Apply knowldege of reader(), writer(), writerow() and writerows() in programs based on csv file .	Demonstration, Discussion, Presentation, Collaboration	Quiz, Worksheets-5, Lab Exercises
<b>Practical</b>	Revision				
<b>Economics</b>	Current challenges facing Indian Economy, Project work	To get students become aware of various Challenges of the Indian economy and to understand the initiatives of government in addressing it's Challenge. Project work aims to develop the perception, improve critical thinking on general economic terms like banking, income & expenditure etc.	The students will be able to know the current Challenges being faced by Indian economy and government's efforts in this regard. Students develops the ability to present the economic terms relating with current scenario.	Lecture Method, Classroom discussion, Interactive Method and Simplified Notes.	Project files,Assignment 9 Class test 5.
<b>Practical</b>	Video watching on New Economic Reforms and discussion on its gains and pains.				
<b>English</b>	Aunt Jennifer's Tigers, On the Face of it, Poets & Pancakes	Learn about Feminist trend in literature. About the suppression of women in a male-dominated society. Identify poetic devises. Understand the need to develop the right attitude towards the specially challenged, the need to incorporate them into the social mainstream and also realize the true beauty that lies within a person and not in one's physical appearance.	Acquire the ability to listen and understand, and should be able to employ non-verbal clues to make connections and draw inferences, develop the habit of reading for information and pleasure; draw inferences and relate texts to previous knowledge; read critically and develop the confidence to ask and answer questions.	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
<b>Activities</b>	ALS- Portfolio Project Discussion and finalizing of topic	Making a project inter-disciplinary in theme. Develop the ideas/issues highlighted in the chapters/ poems/ drama given in the prescribed books in the form of a project. Taking up any relevant and age-appropriate theme.	Be able to use language creatively and imaginatively in text transaction and performance of activities, be able to identify a topic, organise and structure thoughts and write with a sense of purpose and an awareness of readers.	Interactive sessions with teacher in groups, with peer group, extensive research and collection of data, discussion and deputing roles in the groups, organising online team meetings, finalising content and filing it.	ALS Speaking Skill Sessions
<b>Geography</b>	<b>Bk 2 ( India People and Economy) Ch 9 - Geographical perspective on selected issues and problems (continued)</b>	The students will be able to- 1.To explain the causes and consequences of different types of pollution in India and suggest the measures to control it.	The students will be able to- 1. Classify types of pollution based on the medium through which pollutants are transported and diffused. 2. Explain various sources of pollution and summarise the state of water, air, land and noise pollution in India. 3. Analyse the rural-urban migration and its role in pollution. 4. Describe the health and social problems of slum dwellers with reference to Dharavi. 5 Describe the natural and human causes of land degradation and suggest measures to control land degradation in India. 6 Suggest measures to control different types of pollutions and evaluate the effectiveness of the Swachh Bharat Mission. 7. Discuss the problems related to urban waste disposal and suggest measures to convert waste into wealth.	1. Lecture Method 2. Inquiry Based Method 3. Interactive method - Speak to a rag picker and try to find out what he/she does with the waste 4. Prepare a poster to create awareness about Namami Gange Programme. 5. Read the case study of a migrant labourer	Oral Test Class Test Assignment, Preboard, Board Exam



SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Practical</b>	Ch 2 ; Data Processing	The students will be able to- 1.To calculate Measures of Central tendency 2.To Compare Mean, Median And Mode	The students will be able to- 1. Calculate the mean rainfall of your city 2. List ten Himalayan peaks with their heights. 3. Calculate the median height using the data	1.Hands on activity 2.Interactive method	
<b>History</b>	CH - 15 FRAMING THE CONSTITUTION	Familiarize students with the History of the early years after independence, discuss how the founding ideals of the new nation state were debated and formulated, understand how such debates and discussions can be read by historians	Competency based learning & collaborative learning	MS Powerpoint presentation (using Wakelet)	Quiz and oral/written test Class test of Ch - 13 & 15
<b>Practical</b>	Powerpoint Presentation using Prezi/MS Powerpoint				
<b>Hindi</b>	तुलसीदास ,फिराक गोरखपुरी-रूबाइयाँ रचनात्मक लेखन, नाटक,कैसे करें कहानी से नाट्य रूपांतरण, रेडियो नाटक, नए और अप्रत्याशित विषयों पर लेखन	राजनीतिकसामाजिकस्थिति का परिचय , संघर्ष सीखना	कालिकाल में समाजकीदीन-हीन स्थिति का उन्मूलन करना, संघर्ष एवं प्रबल कामना से उन्नतहोना ।कथा-पटकथा में निपुणता ।	व्याख्या एवंविवेचना	प्रश्नोत्तर ,अभ्यास कार्य
<b>Home Sci.</b>	Ch.9 Fashion Design and Merchandising	<b>Ch 9</b> 1.explain the significance of fashion design and	Students will be able to - <b>Ch. 9</b>	Lecture method discussion methods	Assignment no. 9,10 and 11
<b>Practical</b>	8.Remove different types of stains from white cotton cloth –Ball pen, curry, grease, ink, lipstick, tea and coffee.				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
IP	<p>Ch-5 Internet and Web</p> <p>i)Introduction to networks, Types of network: LAN, MAN, WAN.</p> <p>ii)Network Devices: modem, hub, switch, repeater, router,gateway</p> <p>iii)Network Topologies: Star, Bus, Tree, Mesh.</p> <p>iv)Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP.</p> <p>v)Website: Introduction, difference between a website and webpage, static vs dynamic web page,web server andhosting of a website.</p> <p>vi)Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.</p> <p>2.Project Work</p>	<p>Define what a Computer Network is</p> <p>List the benefits of networking</p> <p>List different wired and wireless media for communication</p> <p>Identify different network devices</p> <p>Identify different types of Network Topologies</p> <p>Identify the type of network on the basis of area covered</p> <p>Describe various terms associated with computer networks.</p> <p>List various network security concepts and security threats to computer networks</p> <p>List the preventive and corrective measures against these threats</p> <p>Understand various internet applications</p> <p>Understand wireless/mobile communication</p>	<p>Students will be able to:</p> <p>i) understand the concept of network. and identify different network topologies.</p> <p>ii) identify and differentiate between network devices.</p> <p>iii) Differentiate between website and web pages, static and dynamic web pages.</p> <p>iv) configure browser setting.</p> <p>v) use different internet applications.( e-mail, chat etc.)</p>	<p>Explanation of each topic theoretically. (Demonstration Method)</p> <p>2. Power Point Presentation.(ICT)</p> <p>3. Images to explain different network topologies.(ICT)</p> <p>4. Videos will be shown to students.(ICT)</p> <p>5. Database design and coding for the project work in a group of 2 or 3 students.</p>	<p>*Video Making</p> <p>*E-poster</p> <p>*Making Quiz</p> <p>*Written Test-5</p>
Practical	Project work				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Maths</b>	Ch-9 Differential equations Ch-10 Vector Algebra Ch-11 Three Dimensional Geometry	1. Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of both type 2. Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors. 3. Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line.	Student's will be able to 1. To develop the concepts of differential equations using the ideas of differential and integral calculus. 2. Constructs the idea of vectors and their properties and relates them to earlier learnt concepts in different areas of mathematics such as geometry, coordinate geometry etc 3. Evolves newer concepts in three dimensional geometry from that learnt earlier, in the light of vector algebra, such as, direction cosines, equations of lines	1. Share in groups the different equations, they have studied in the previous classes. They may be motivated to extend this concept to those equations that involve derivative of a function. The concept of differential equations can then be evolved. 2. Discuss situation that rise to make difference in vector and scalar that could lead to the concept of a vector. 3. To discuss these concepts of vectors with reference to three dimensions. It may be discussed that to determine the position of a vector in a solid, three components along X,Y,Z axes are required.	Oral Test , Assignment 11,12 Class Test 8 & 9
<b>Practical</b>	Activity 7 & 8 based upon Vector	7. To verify geometrically distributive law of cross product . 8. Using vector method ,To verify that angle in a semi circle is right angle		Experiential Learning	
<b>Music</b>	Critical study and writing in Notation of the compositions Raag Bageshri ( Drut khayal) and raag Bhairav ( Dhamar) and recognizing raagas from phrases of swars.(Theory & Practical )	1. Promote the highest level of human aspiration and artistic integrity through the composition & performance. 2. Develop an analytical creative and intuitive understanding of music.	Will develop the ability-- 1. voice to develop and express musical ideas. 2. sing rhythmically, in tune, in harmony and sing from notations. 3. sing expressively in a variety of styles.	Demonstration, Discussion and Presentation.Singing practice with proper breathing.	Practical Assignment-5
<b>Practical</b>	Practice of Notation of Raag Bageshri of Drut Khayal(singing)				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Painting</b>	.Unit 3 The Bengal School of Painting and the Modern trends	*Originality in the presentation (paintings, sketches, etc.)	Feel confident with the chosen medium as a means of communicating and	Demonstration, Discussion	Practical Assignment 21-25
<b>Practical</b>	Landscape-Nature Study				
<b>PHE</b>	Unit-6:-Test and Measurement	To promote students about test and measurement	To evaluate the learners: In the field of physical education and sports, Test and Measurement helps in collection of data which further helps in evaluating the learners ability separately. It also helps the sports person in enhancing his sports performance.	Discussion and peer station method	Class test -6 and Assignment-6
<b>Practical</b>	Practical no 1: SAI Khelo India test	To develop motor skill	Fitness	Practical method	BMI
<b>Physics</b>	Chapter-11: Dual Nature of Radiation and Matter Chapter-12: Atoms Chapter-13: Nuclei	To make the learners understand: - The dual nature of radiation of light as practical and wave. - Basic structure of atoms and nucleus proposed by different scientists and its importance in our life.	Learners will be able to understand -The dual nature of light (Wave and Particle) along with experimental and mathematical verification -The Concept of atoms and nuclei with help of different models developed by different scientists (Rutherford's model, Bohr's model etc.)	Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching	Assignments of chapter 11 : 17,18 Assignment of chapter 12: 19 Assignment of chapter 13: 20 Class test of Chapter 11: 20,21 Class test of Chapter 12: 22,23 Class test of Chapter 13: 24 Question Bank with solution of Chapter 11 :- 11 Question Bank with solution of Chapter 12 :- 12 Question Bank with solution of Chapter 13 :-Nuclei 13
<b>ACTIVITY</b>	#7: To determine refractive index of a glass slab using a travelling microscope.				

**October**

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Accounts	Chap—4- Accounting Ratios(contd) Chap -5- Cash Flow Statement	Learner will be able to *Calculate and interpret the various ratios calculated for intra-firm and interfirm comparisons.state the purpose and preparation of statement of cash flow statement; • Prepare the statement of cash flows using indirect method	Studnets will be able to CH. 4 *Develop the skill of computation of debt equity ratio, total asset to debt ratio, proprietary ratio and interest coverage ratio. *Develop the skill of computation of inventory turnover ratio, trade receivables and trade payables ratio and working capital turnover ratio and others. *develop the skill of computation of gross profit ratio, operating ratio, operating profit ratio, net profit ratio and return on investment. CH.5 *State the meaning and objectives of cash flow *Cash Flow Statement using indirect method as per AS 3 with given adjustments. statement.	*Problem solving method * Classroom discussion method * Printed worksheet *PPT	Google form test, Class test-9, NCERT and other text book exercise qs. * Crossword Assignment of numreicals and class test from the completed chapters. ASSIGNMENT-9
Activities	Analysis of performance of company by using different ratios.				
Artificial Intelligence	Communication Skills	<b>Verbal Communication:</b> Develop effective verbal communication skills to articulate ideas clearly and confidently.	Effective Verbal Communication: Students will demonstrate improved verbal communication skills, expressing	<b>Demonstration, Lecture, Acrivity, Project</b>	<b>Quiz , worksheet</b>

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Biology</b>	Chapter 13: Organisms and populations Chapter 14: Ecosystems	<p><b>Ch-13</b></p> <ol style="list-style-type: none"> <li>1. Concept of habitat and niche.</li> <li>2. Populations and ecological adaptations (types)</li> <li>3. Population interactions- Mutualism, competitions, predation, parasitism.</li> <li>4. Population attributes- growth, birth rate, death rate, age distribution.</li> <li>8. Ex-situ and in-situ conservation</li> </ol> <p><b>Ch-14</b></p> <ol style="list-style-type: none"> <li>1. Concept of ecosystem- Patterns and components.</li> <li>2. Productivity and decomposition</li> <li>3. Concept of energy flow.</li> <li>4. Ecological pyramids-no., energy and biomass.</li> <li>5. Types of nutrient cycling –carbon and phosphorus.</li> <li>6. Ecological succession- Hydrarch and xerarch.</li> <li>7. Ecological services- carbon fixation, pollination, seed dispersal.</li> </ol>	<p><b>Ch-13</b> The students will be able to-</p> <ul style="list-style-type: none"> <li>*Relate the various kinds of population interactions</li> <li>*Population characteristics and its estimation will be known.</li> <li>*Concept of habitat and niche will be broadened.</li> </ul> <p><b>Ch-14</b></p> <p>The students will be able to understand-</p> <ul style="list-style-type: none"> <li>*The concept of primary and secondary productivity will be developed.</li> <li>*Ecological succession and its application Nutrient cycling and its impact on environment. Energy flow and its estimation via 10% law.</li> </ul>	Lecture method, Videos and PPTs, Charts and scenes	<p>Assignment-10</p> <ul style="list-style-type: none"> <li>*To prepare a project on various population interactions</li> <li>*To calculate the population density using quadrant method.</li> <li>*Worksheet</li> <li>*To prepare a model on energy transmission through various ecosystems.</li> <li>*Explanation of various pyramids diagrammatically.</li> <li>*CBSE sample paper Worksheets</li> </ul>
<b>Practical</b>	Expt-15: To study the action of salivary amylase on starch				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
B.st	ch.10: Financial Market (Contd.) ch.: 12: Consumer Protection	Learner will be able to : know about the stock exchange and regulating authority of capital Market i.e. SEBI and its objective and functions, To know about the rights and duties as a consumer and redressal machinery	Students will be able to <b>Ch.11:</b> Give the meaning of a stock exchange. its functions . Discuss the trading procedure in a stock exchange.Give the meaning of depository services and demat account as used in the trading procedure of securities.State the objectives of SEBI. Explain the functions of SEBI. <b>Ch.12:</b> Understand the concept of consumer protection. Describe the importance of consumer protection. Discuss the scope of Consumer Protection Act,2019.Understand the concept of a consumer according to the Consumer Protection Act, 2019. Explain the consumer rights Understand the responsibilities of consumers Understand who can file a complaint and against whom? Discuss the legal redressal machinery under Consumer Protection Act, 2019. Examine the remedies available to the consumer under Consumer Protection Act, 2019.	Lecture method Question answer session Problem solving method Teaching through power point presentation	Oral Test , Class Test-9,10 NCERT Exercise Questions Case Study questions ASSIGNMENT 9 ASSIGNMENT 10
<b>Activities</b>	Prepare a project on the topic Marketing Management by taking product of your choice.				
<b>Chemistry</b>	REVISION AND ASSESSMENTS				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Computer Science</b>	Data Structures -Definition of Data Structure -Functions append(),pop() with list -Stacks -insertion and deletion -Queues- Insertion and Deletion	To impart the basic concepts of data structure, its uses and types 1.To understand basic concepts about stack and its associated operations i.e., push and pop 2. To understanding about writing python code for push and pop operations using list 3. To understand basic concepts about queue and its associated operations i.e., insert and delete 4. To understanding about writing python code for insert and delete operations using list	1.To describe the concepts of data structure, its uses and types. 2. To describe stack and queue with their operations. 3. To implement stack operations in python using list. 4. To implement queue operations in python using list. 5. Application of Stacks and Queues	Discussion, Demonstration, Video	Quiz, Worksheet, Programs
<b>Practical</b>	1. Write a menu driven program to read and write operations using text file called songs.txt using following functions				
<b>Economics</b>	Current challenges facing Indian Economy continued... Development Experience of India - A Comparison with Neighbours	To make students able to analyse the issues relating to current Challenges facing Indian economy and compare India, China & Pakistan on economic and demographic aspects.	The students will be able to identify and analyse current Challenges facing Indian economy and could make a comparative study of India, China & Pakistan.	Lecture Method, Classroom discussion, Interactive Method and Simplified Notes.	Assignments 10, 11 Class test 6
<b>Practical</b>	PowerPoint presentation on poverty alleviation programmes.				
<b>English</b>	Report Writing, Memories of Childhood, Going Places	Understanding and application of formats used when writing factual reports, Learn to appreciate one's stand against social and racial indiscrimination and support social justice, comprehending the world of adolescent fantasising and understanding their urge and fascination to explore the unknown.	Be able to employ her communicative skills, with a range of styles, and engage in a discussion in an analytical and creative manner. Be able to identify a topic, organise and structure thoughts and write with a sense of purpose and an awareness of audience. Feel a sensitivity to empathize with issues that concern humanity	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
<b>Activities</b>	ALS- Portfolio Folder project submission details to be discussed, documents to be submitted along explained	Making a project inter-disciplinary in theme. Develop the ideas/issues highlighted in the chapters/ poems/ drama given in the prescribed books in the form of a project. Taking up any relevant and age-appropriate theme.	Be able to use language creatively and imaginatively in text transaction and performance of activities, be able to identify a topic, organise and structure thoughts and write with a sense of purpose and an awareness of readers.	Interactive sessions with teacher in groups, with peer group, extensive research and collection of data, discussion and deputing roles in the groups, organising online team meetings, finalising content and filing it.	ALS Speaking Skill Sessions
<b>Geography</b>	Bk 3 : Spatial Information Technology	The students will be able to- 1.To understand the need to capture data from different sources and integrate them using a computer that is supported by geo-processing tools. 2. To learn basic principles of the Spatial Information Technology and its extension to the Spatial Information System, which is more commonly known as Geographical Information System.	The students will be able to- 1.understand the basic concepts og GIS and its application.	1.Lecture Method 2. hands on experience with GIS software	
<b>Practical</b>	Spatial Information Technology	1. To learn basic principles of the Spatial Information Technology and its extension to the Spatial Information System, which is more commonly known as Geographical Information System.	The students will be able to recall learnt m	1. Interactive method 2. hands on experience with QGIS software	
<b>History</b>	CH - 15 FRAMING THE CONSTITUTION(contd..) PROJECT WORK	Familiarize students with the History of the early years after independence, discuss how the founding ideals of the new nation state were debated and formulated, understand how such debates and discussions cab be read by historians	*Apply the Knowledge for protecting their rights *Develop a feeling of respect for the constitution framers	Discussion Method Lecture Method	Revision Test
<b>Practical</b>	Brochure Making				
<b>Hindi</b>	डा.हजारी प्रसाद द्विवेदी, डा.अंबेडकर, श्री उमा शंकर जोशी	पुरातत्व काज्ञान	प्रतिकूल परिस्थिति में जिजीविषा, एक सभ्य और सम्य समाज की संकल्पना एवं रचनात्मक प्रक्रिया की बारीकियों काज्ञान।	व्याख्या एवं विवचना	अभ्यासकार्य,कक्षा परीक्षा
<b>Activities</b>	परियोजना कार्य				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Home science	Ch12 . Consumer Education and Protection UNIT VI: Communication and Extension Ch13 . Development Communication and Journalism	<p><b>CH. 12</b></p> <ol style="list-style-type: none"> <li>1.Understand the importance and role of Consumer Education and Protection</li> <li>2. Explain the basic concepts related to Consumer Education and Protection</li> <li>3. Analyse the knowledge and skills needed for a career in this field</li> <li>4. Understand the scope and career options.</li> </ol> <p><b>CH 13</b></p> <ol style="list-style-type: none"> <li>1.Understand the importance of development communication and journalism for social change and development</li> <li>2. Identify the skills required for a career in communication and journalism</li> <li>3. Comprehend the scope of this discipline and the career options available.</li> </ol>	<p>Students will be able to -</p> <p><b>Ch. 12</b></p> <ol style="list-style-type: none"> <li>1. understand the basic terms related to consumer education ,it's importance, basic concept and role of Consumer Education and Protection</li> <li>2. Understand the rights and responsibilities of a consumer</li> <li>3. analyse the knowledge and skills needed for scope and career in this field</li> </ol> <p><b>Ch. 13</b></p> <ol style="list-style-type: none"> <li>1. Know the basic terms in relation of communication and journalism.</li> <li>2. Understand the important role of journalism in social change and development.</li> <li>3. How journalism helps in achieving goals in developmental programmes.</li> <li>4. Identify the skills required for scope and career in communication and journalism</li> </ol>	lecture cum discussion method Recaptualization	Assignment no. 12 and 13

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Informatics Practices</b>	Ch-6 Societal Impact i) Digital footprint, net and communication etiquettes, data protection, intellectual property rights(IPR), plagiarism, licensing and copyright, free and open, source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. ii) E-waste: hazards and management. iii) Awareness about health concerns related to the usage of technology.	i) To use internet and technology in a more efficient way. ii) To handle electronic waste in a perfect manner. iii) To become aware about the physical and mental health while accessing electronic devices and internet. To get concept of networking network topologies and devices. ii) To get knowledge of website, web pages and web browser. iii) To become familiar with different internet applications	<b>Ch-6</b> -Students will come to know about the Students will be able to: i) Understand different ethical and unethical issues related to internet. ii) Differentiate between different types of softwares. iii) Aware about health related issues related to use of technology.	1. Explanation of each topic. (Demonstration Method) 2. Relate each topic with real life examples. 3. Power Point Presentation. (ICT) 4. Videos will be shown to students. (ICT) 5. Group discussion on the health related issues students are facing (if any) due to usage of electronic gadgets and internet. (Peer Learning) 6. Coding for the project work in a group of 2 or 3	*Animated Video Making *E-poster making *Quiz
<b>Practical</b>	Project work				
<b>Maths</b>	Ch-11 Three Dimensional Geometry (contd.)	skew lines, shortest distance between two lines. Angle between two lines.	Student's will be able to Understand equations of lines under different conditions etc	To discuss skew lines, distance between two lines and angle between two lines	Oral Test , Assignment 13 Class Test 10
<b>Practical</b>	Activity 9 based upon 3 dimensional space Activity 10 based upon Shortest distance	9. To locate the points of given coordinates in space , measure the distance between two points in space and then to verify distance using distance formula. 10. To measure shortest distance between two skew lines and verify it analytically.		Experiential Learning	
<b>Music</b>	Brief study of the following--- Gram, Murchana, Kan swar, khatka, Murki Bhajan (singing)	1. Students will be effective learner. 2. Students will achieve proficiency in music.		Demonstration, Practice in class and with provided audio and individual presentation in the class.	
<b>Practical</b>	Practice of recognizing raag from the phrases of swars of Raag Bhairav and Bageshri (singing)				

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Painting</b>	Unit-3 The Modern Trends in Indian Art Appreciation of the following contemporary (Modern) Indian Art (i) Paintings: (i) Rama Vanquishing the Pride of the Ocean – Raja Ravi Varma (ii) Mother and child – Jamini Roy (iii) Haldi Grinders - Amrita Sher Gill (iv) Mother Teresa - M.F.Husain (ii) Graphic - prints: (i) Children – Somnath Hore (ii) Devi – Jyoti Bhatt (iii) Of Walls - AnupamSud (iv)Man, Woman and Tree - K. Laxma Goud (iii) Sculptures: (i) Triumph of Labour - D. P. Roychowdhury (ii) Santhal Family - RamkinkarVaij (iii) Cries Un - heard – Amar Nath Sehgal (iv) Ganesha - P.V. Janaki Ram.	*Highlight the method of work giving a historical study of the work. * Originality in the presentation (paintings, sketches, etc.) *Demonstrate an understanding of basic colour principles, colour mixing and representation.	*Relate their work to other artists work and understand the historical context of this work. *Understand the basic principles of colour	Demonstration, Practice in class	Practical Assignment-26-30
<b>Practical</b>	Landscape-Sightseeing				
<b>PHE</b>	Unit-7:-Physiology and injuries in sports,Unit-8:-Biomechanics and sports	To encourage the students about physiology and injuries in sports , and also biomechanics and sports	To becomes more cautious while playing and physical well being of self and others.	Lecture and interactive teaching method	Class test-7 and class - 8. Assignment-7 and Assignment-8
<b>Practical</b>	Practical no 2: Proficiency in games and sports ( fundamental skill of the games and sports )	Fundamental skills of the games	Learning the strategies according to the games and sports	Practical method	Practical file
<b>Physics</b>	Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits	To make the learners understand : -The importance and significance of semiconducting devices in our daily life and how they are different from conductor and insulator by explaining different semiconducting devices	Learners will be able to understand : - Concept of Conductors, Insulators and semiconductors with the help of Band EnergyTheory. - Classification of semiconductors along with their practical applications in PN diodes and rectifiers	Guided learning with independent practice Brainstorming Student- teacher interaction Hybrid teaching	Assignment of Chapter 14 : 21,22 Class test of Chapter 14: 25,26 Question Bank with solution of Chapter 14 :- 14

**November**

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Accounts	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
Artificial Intelligence	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
Biology	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
B.st	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
Chemistry	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
Computer Science	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
Economics	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
English	Revision	Revision of Poems of Flamingo	Understanding of all poetry topics, critical analysis, ability to answer extract based questions	Worksheets	Class Tests,Half Yearly Examination
Activities	ALS- Portfolio Project Final Activity	Final submission of Portfolio folders	Able to independently and individually explain the project and fulfil requisites of ALS	ALS interactive sessions	ALS interactive sessions
Geography	Revision and assesment (BK 1,2 and 3)	Revision and assesment (BK 1,2 and 3)	Revision and assesment (BK 1,2 and 3)	Revision and assesment (BK 1,2 and 3)	Half Yearly Examination
Hindi	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
History	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
Home Science	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
Informatics Practices	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
Maths	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
Music	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
Painting	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
PHE	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
Physics	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Half Yearly Examination
<b>December</b>					
Accounts	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
Artificial Intelligence	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
<b>Biology</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>B.st</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Chemistry</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Computer Science</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Economics</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>English</b>	Revision	Revision of Prose topics of flamingo and Writing Skills topics	Revision of Prose topics of flamingo and Writing Skills topics	Revision of Prose topics of flamingo and Writing Skills topics	Revision of Prose topics of flamingo and Writing Skills topics through class tests
<b>Activities</b>	Revision	Revision of ALS	Revision of ALS	Revision of ALS	Revision of ALS
<b>Geography</b>	Revision and assesment (BK 1,2 and 3)	Revision and assesment (BK 1,2 and 3)	Revision and assesment (BK 1,2 and 3)	Revision and assesment (BK 1,2 and 3)	Pre board examination
<b>Hindi</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>History</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Home Science</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Informatics Practices</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Maths</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Music</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Painting</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>PHE</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Physics</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>January</b>					
<b>Accounts</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Artificial Intelligence</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Biology</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>B.st</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Chemistry</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
<b>Economics</b>	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
English	Revision	Revision of Prose topics of Vistas	Revision of Prose topics of Vistas	Revision of Prose topics of Vistas	Revision of Prose topics of Vistas through class tests
Geography	Revision	The students will be able to recall learnt material	The students will be able to recall learnt material	1.Lecture Method 2.Interactive Method	Classtest
Hindi	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
History	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
Home Science	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
Informatics Practices	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
Maths	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
Music	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
Painting	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
PHE	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination
Physics	Revision and test	Revision and test	Revision and test	lecture Method, Quizes	Pre board examination

## February

Accounts			<i>Practicals and Annual Exam</i>		
Artificial Intelligence			<i>Practicals and Annual Exam</i>		
Biology			<i>Practicals and Annual Exam</i>		
B.st			<i>Practicals and Annual Exam</i>		
Chemistry			<i>Practicals and Annual Exam</i>		
Computer Science			<i>Practicals and Annual Exam</i>		
Economics			<i>Practicals and Annual Exam</i>		
English			<i>Practicals and Annual Exam</i>		
Geography	Revision	The students will be able to recall learnt material	The students will be able to recall learnt material		
Hindi			<i>Practicals and Annual Exam</i>		
History			<i>Practicals and Annual Exam</i>		
Home Science			<i>Practicals and Annual Exam</i>		
Informatics Practices			<i>Practicals and Annual Exam</i>		

SUBJECT	SYLLABUS(Brief description of Topics)	Aim & Objectives	Learning Outcomes	Teaching Strategy	Assessment Strategy
Maths			<i>Practicals and Annual Exam</i>		
Music			<i>Practicals and Annual Exam</i>		
Painting			<i>Practicals and Annual Exam</i>		
PHE			<i>Practicals and Annual Exam</i>		
<i>Physics</i>			<i>Practicals and Annual Exam</i>		