

ANNUAL BIFURCATION IX (2021-22)

SOCIAL SCIENCE

| <u>Month</u> | <u>Topic</u> | <u>Pedagogical Skills</u> |
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| April | Chapter 1: What is Democracy? Why Democracy? (Pol.Sc) Chapter 1: The story of the village Palampur (Eco) Chapter 1: India size & location(Geo) Chapter1: French Revolution (History) | |
| Week 1 | <ul style="list-style-type: none">• What is Democracy• Features of democracy ... case study of Pakistan, China.• Features of democracy.... case study of Mexico, Fiji, Saudi Arabia• Merits of democracy• Demerits of democracy | <ul style="list-style-type: none">• Debate on the merits and demerits of democracy• Discussion of the important political terms and concepts such as martial law, a coup, a veto. |
| Week 2 | <ul style="list-style-type: none">• Overview of village Palampur.• Organisation of production.• Farming in Palampur• Non-farm activities in Palampur• Green revolution .. positive and negative impacts | <ul style="list-style-type: none">• Classify main occupation in a village into farming and non-farming activities.• Choose photographs of persons engaged in different occupations in rural and urban areas and categorise into three sectors of the economy . |
| Week 3 | <ul style="list-style-type: none">• Location• Size• Standard meridian and IST• India and the world• India's neighbours | <ul style="list-style-type: none">• Observe political map of India and mark latitudinal and longitudinal extent, states &UTs |
| Week 4 | <ul style="list-style-type: none">• French Society During the Late Eighteenth Century• Causes of the Revolution• The Outbreak of the Revolution• France Abolishes occurrence. Monarchy and Becomes a Republic• Did Women have a Revolution• The abolition of slavery• The revolution and everyday life | <ul style="list-style-type: none">• Develop timeline on significant events related to outbreak of the French and Russian revolution. In connection with France some events that can be displayed in the timeline are: constitutional monarchy, declaration of right of man, on becoming a republic and the reign of terror.• Role play on the French revolution and play the role of clergy, nobility, merchants, the peasants and the artisans; concluding remarks drawing assumptions of the feelings of each class can be given by facilitators of each group. |
| May | Chapter 2: Physical features of India | |

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| | Chapter 2: Constitutional Design Chapter 2: People as resource | |
| Week 1 | <ul style="list-style-type: none"> • Meaning of weathering, erosion and deposition and tectonic activities • The Himalayan mountain • The Northern plains • The Indian Desert • The coastal Plains • The Islands | <ul style="list-style-type: none"> • Maps /models to classify physical features of India • Gather information about physical features in the surroundings discuss about these features with the peers; visuals related to other physiographic divisions may be shown and their features may be explained to them |
| Week 2 | <ul style="list-style-type: none"> • How and why did India become democracy? • How was the Indian Constitution framed? • Salient features of the Indian Constitution • Case study of South Africa | <ul style="list-style-type: none"> • Presentation about details of the time when universal adult franchise was first provided to the citizens • Collect information about the members who contributed in the process of making of the Indian constitution |
| Week 3 | <ul style="list-style-type: none"> • Overview Investment in Human Capital • Investment in education and health • Economic Activities by Men and Women (i) Education and skill determinants of earnings. • Quality of population (i) Education (ii) Health • Unemployment (i) Nature of employment in India. (ii) Effects of Unemployment. (iii) Labour absorbing sectors of economy | |
| JULY | Chapter 3 : Electoral politics (Political Science) Chapter 3: Nazism and the rise of Hitler(History) | ----- |
| Week 1 | <ul style="list-style-type: none"> • Birth of the Weimar • Hitler’s Rise to power • The Nazi Worldview • Youth in Nazi Germany • Ordinary People and the Crimes Against Humanity | <ul style="list-style-type: none"> • Record or gather (from internet /YouTube) the interviews of living legends who have experienced trials and tribulations of Nazism. |
| AUGUST | REVISION | |
| September | Half Yearly exams | |
| October | Chapter 4 : Working of institutions (Political Science) Chapter 3: Poverty as a challenge (Economics) Chapter 5: Natural vegetation and wildlife(Geo) | |
| Week 1 | <ul style="list-style-type: none"> • How is the major policy decision taken? • Parliament Political and permanent executive | |

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| | <ul style="list-style-type: none"> Judiciary Mandal Commission | |
| Week 2 | <ul style="list-style-type: none"> Two typical cases of poverty (i) Urban case (ii) Rural case Poverty Line Poverty trends in India (i) Groups vulnerable to poverty. (ii) Interstate disparities. (iii) Global poverty scenario. Causes of poverty and anti-poverty measures. Challenges to poverty reduction | <ul style="list-style-type: none"> Collect information on the famines in India. Explore the causes behind the famines in the colonial period. |
| Week 3 & 4 | <ul style="list-style-type: none"> Factors affecting Diversity (i) Relief (ii) Climate (iii) Ecosystem Types of Vegetation. (i) Tropical evergreen forest. (ii) Tropical deciduous forest. (iii) Tropical thorn forest and scrubs. (iv) Montane forests. (v) Mangrove forests. Wild life. Need of environmental conservation. (i) Governmental steps for protection. | <ul style="list-style-type: none"> Map work |
| November | Chapter 3: Poverty as a challenge (Economics) Chapter 2: Russian Revolution (History) | |
| December | Chapter 3: Drainage Chapter 4: Climate (Geography) | |
| January | Chapter 3 : Electoral politics (Political Science) | |
| February | Revision | |

ENGLISH

| MONTH | WEEK | CHAPTER | CONTENT |
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| APRIL | I | BEEHIVE (THE FUN THEY HAD) | Reading and understanding the text Understanding the characterization and other elements of story Reference to the context, Question/Answers |
| | | <u>Modals</u> | Usage and application Format Rubrics of assessment Practice |

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| | II | The Road Not Taken | Reading and understanding the poem and its poetic devices RTC,Q/Ans |
| | | Moments(The Lost Child) | Reading and understanding the text Understanding the characterization and elements of story RTC,Q/Ans |
| | III | Moments(The Adventures of Toto) | Reading and understanding the text RTC,Q/Ans Solving back exercise |
| | | <u>Grammar</u> : Subject-Verb Agreement | Rules discussion Usage and relevance Exercise for practice |
| | IV | Moments(In the Kingdom of Fools) | Reading and understanding the text RTC,Q/Ans Solving back exercise Showing videos of the chapters done so far(A/V room) |
| | | <u>Grammar</u> : Tenses | Rules discussion Usage and relevance Exercise for practice |
| MAY | I | Beehive(The Sound of Music) | Reading and understanding the text RTC,Q/Ans Solving back exercise |
| | II | Wind | Reading and understanding the poem and its poetic devices RTC,Q/Ans |
| | | The Little Girl | Reading and understanding the text RTC,Q/Ans Solving back exercise |
| | III | Rain on the Roof | Reading and understanding the poem and its poetic devices RTC,Q/Ans |
| | IV | A Legend of the Northland | Reading and understanding the poem and its poetic devices RTC,Q/Ans |
| JULY | I | Determiners | Rules discussion Usage and relevance Exercise for practice |
| | | <u>Grammar</u> : Reported Speech | Rules discussion Usage and relevance Exercise for practice |

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| | II | Reported Speech | Reading and understanding the text RTC,Q/Ans Solving back exercise |
| | III | Descriptive writing | Usage and application Format Rubrics of assessment practice |
| | IV | The Happy Prince | Reading and understanding the text RTC,Q/Ans Solving back exercise |
| AUGUST | I | A Truly Beautiful Mind | Reading and understanding the text RTC,Q/Ans Solving back exercise |
| | II | My Childhood | Reading and understanding the text RTC,Q/Ans Solving back exercise |
| | III | Writing: Short Story | Usage and application Format Rubrics of assessment Practice |
| | IV | Editing , Errors, Omission,Gap Filling | Practice |
| SEPTEMBER | REVISION AND EXAMINATION | | |
| OCTOBER | I | Weathering the Storm in Ersama | Reading and understanding the text RTC,Q/Ans Solving back exercise |
| | II | The Last Leaf | Reading and understanding the text, RTC,Q/A Solving back exercise |
| | III | No Men Are Foreign | Reading and understanding the text RTC,Q/Ans Solving back exercise |
| | IV | Reach for the Top | Reading and understanding the text and its poetic devices RTC,Q/Ans |
| NOVEMBER | I | The Bond of Love On Killing A Tree | Reading and understanding the poem and its poetic devices RTC,Q/Ans |
| | II | Packing | Reading and understanding the text and RTC,Q/Ans and solving back exercise |
| | III | The Snake Trying | Reading and understanding the poem and its poetic devices RTC,Q/Ans |
| | IV | If I were You | Reading and understanding the text RTC,Q/Ans Solving back exercise |

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| DECEMBER | I | Moment: A House Is Not A Home | Reading and understanding the text and RTC,Q/Ans Solving back exercise |
| | II | The Beggar | Reading and understanding the text RTC,Q/Ans Solving back exercise |
| | III | Grammar topics Revision | |
| | IV | Writing Topics Revision | |
| January | | | |
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MATHS

| <u>Month</u> | <u>Topic</u> | <u>Pedagogical Skills</u> |
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| April | Chapter 1: Number System Chapter 2: Polynomials | |
| Week 1 | <ul style="list-style-type: none"> • Representation of real numbers on number line. • Rationals as Terminating and non terminating recurring decimals. • Successive magnification. • Existence of irrational numbers and their representation on number line. | <ul style="list-style-type: none"> • To construct a square root spiral of natural number. • Worksheets that are based on statements those are always,sometimes,never true. |
| Week 2 | <ul style="list-style-type: none"> • Definition of nth root of real number. • Rationalisation • Recall of laws of exponents, rational exponent with real bases. | |
| Week 3 | <ul style="list-style-type: none"> • Definition , coefficient, terms, degree of polynomials in one variable. • Classification of polynomials on the basis of terms and degree. • Zeroes of polynomial. • Remainder Theorem with examples. | |
| Week 4 | <ul style="list-style-type: none"> • Statement and proof of Factor Theorem. • Factorisation of quadratic and cubic polynomials using Factor Theorem. • Recall of identities. | |
| May | Chapter 3: Coordinate Geometry | |

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| | Chapter 4: Linear Equations in Two Variable | |
| Week 1 | <ul style="list-style-type: none"> • Cartesian plane, Quadrants • Coordinates of a point • Plotting the points in Cartesian plane. | |
| Week 2 | <ul style="list-style-type: none"> • Recall of linear equation in one variable. • Introduction to linear equation in two variable. • Focus on the type $ax + by + c = 0$ | <ul style="list-style-type: none"> • To study effect of algebraic operation on linear equation (graphically). |
| Week 3 | <ul style="list-style-type: none"> • Many solutions of linear equation in two variables with justification. • Graph, problems from real life. | <ul style="list-style-type: none"> • Different sets of cards with linear equations in two variables and their solution written on them. |
| July | Chapter 5: Introduction to Euclid's Geometry Chapter 6: Lines & Angles Chapter 7: Triangles | |
| Week 1 | <ul style="list-style-type: none"> • History – Geometry in India and Euclid's geometry • Axioms and postulates • Euclid's axioms and postulates • Equivalent version of fifth postulate • Relationship between theorem and axiom. • Recalling of various types of angles. • Results on corresponding angles, alternate angles and cointerior angles | |
| Week 2 | <ul style="list-style-type: none"> • Lines which are parallel to a given line are parallel. • Exterior and interior angle sum property of a triangle. | |
| Week 3 | <ul style="list-style-type: none"> • Congruence of triangles • Criteria for congruencies of triangles through diagrams (ASA, SAS, SSS, RHS) | |
| Week 4 | <ul style="list-style-type: none"> • Some properties of triangles • Inequalities in triangles | <ul style="list-style-type: none"> • To verify sum of length of any two sides of triangle is greater than third side |
| August | Chapter 14: Statistics Chapter 15: Probability Chapter 8: Quadrilaterals Chapter 12 : Heron's Formula | ----- |
| Week 1 | <ul style="list-style-type: none"> • Frequency Table • Bar graph • Histogram | <ul style="list-style-type: none"> • Record and label a given data set in order to create a frequency table. |
| Week 2 | <ul style="list-style-type: none"> • Frequency Polygon | |

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| | <ul style="list-style-type: none"> • Mean • Median, Mode | |
| Week 3 | <ul style="list-style-type: none"> • Calculation of empirical probability in various experiments. • Angle sum property of a quadrilateral. • Properties of parallelogram • Conditions for a quadrilateral to be a parallelogram | |
| Week 4 | <ul style="list-style-type: none"> • Mid point Theorem • Introduction to area of triangle by basic formula • Area of triangle by Heron's formula. • Application of Heron's formula for finding area of quadrilaterals. | |
| September | Revision | ----- |
| October | Chapter 9: Area of Parallelograms and Triangles | |
| Week 1 | <ul style="list-style-type: none"> • Types of quadrilaterals • Figures on the same and between the same parallels | |
| Week 2 | <ul style="list-style-type: none"> • Parallelograms on the same base and between the same parallels. | <ul style="list-style-type: none"> • To verify area of parallelogram and rectangle having same base and between same parallel lines are equal |
| Week 3 | <ul style="list-style-type: none"> • Triangle and parallelogram on the same base and between the same parallels. • Triangles on the same base and between the same parallels. | |
| November | Chapter 10: Circle Chapter 11: Construction | |
| Week 1 | <ul style="list-style-type: none"> • Circles and its related terms: A review • Angle subtended by a chord at a point. • Perpendicular from the centre to a chord. | <ul style="list-style-type: none"> • To verify angle in same segment of circle are equal. |
| Week 2 | <ul style="list-style-type: none"> • Circle through three points • Equal chords and their distances from the centre. | <ul style="list-style-type: none"> • To verify that the chords of a circle which subtends equal angle at the centre are equal |
| Week 3 | <ul style="list-style-type: none"> • Angle subtended by arc of the circle • Cyclic quadrilaterals | |
| Week 4 | <ul style="list-style-type: none"> • Basic constructions • Some constructions of triangle. | |
| December | Chapter 13: Surface Area and Volume | |
| Week 1 | <ul style="list-style-type: none"> • Surface area of a cube and a cuboid. | |

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| | <ul style="list-style-type: none"> Surface area of a right circular cylinder. | |
| Week 2 | <ul style="list-style-type: none"> Surface area of a right circular cone. Surface area of sphere. | <ul style="list-style-type: none"> To obtain the formula for CSA and TSA of right circular cylinder. |
| Week 3 | <ul style="list-style-type: none"> Volume of cube Volume of cuboid Volume of cylinder | |
| Week 4 | <ul style="list-style-type: none"> Volume of cone Volume of sphere Volume of hemisphere | |
| January | Revision | ----- |
| February | Final Examination | ----- |

HINDI

| महीना | सप्ताह | पाठ | पठन सामग्री | शैक्षणिक कौशल |
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| अप्रैल | एक | पाठ दो बैलों की कथा 1 क्षितिजगद्यभाग | पाठ परिचय, पठित गद्यांश, सार लेखन प्रश्न उत्तर, अतिरिक्त प्रश्न | वाद विवाद |
| | दो | पाठ क्षितिज काव्य खंड 9 साखियाँ एवंशब्द | पाठ परिचय, पाठ पठन, प्रश्नउत्तर - पठित काव्यांश | |
| | तीन | शब्द निर्माण उपसर्ग | उपसर्ग का अर्थ परिभाषा, उपसर्ग भेद, कार्यपत्रक अभ्यास | |
| | चार | शब्द निर्माण प्रत्यय अनुच्छेद लेखन | प्रत्यय का अर्थ प्रत्यय की परिभाषा प्रत्यय के भेद कार्यपत्रक अभ्यास | |
| मई | एक | पाठ दो क्षितिजगद्य खंड लहासा की ओर | पाठ परिचय, पाठ पठन, प्रश्न उत्तर पठित गद्यांश | |
| | दो | पाठ क्षितिज काव्य 10 खंड वाख | कवि परिचय, पठन सरलार्थ, भावार्थ प्रश्न उत्तर | आशु भाषण |

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| | तीन | शब्द निर्माण समासपरिचय | समास का अर्थ समास के भेद द्वंद, द्विगु बहुव्रीही, कर्मधारय समास | |
| | चार | अपठित गद्यांश अपठित काव्यांश संवाद लेखन | कार्यपत्रक अभ्यास | |
| जुलाई | एक | पाठ गद्य खंड सांवाले 4 सपनों की याद | पाठ वलेखक परिचय,पाठ पठन प्रश्न उत्तर,पठित गद्यांश | |
| | दो | पाठ क्षितिज काव्य 11 खंड सवैये | पाठ परिचय पठन सार, सरलार्थ, भावार्थ, प्रश्न उत्तर | |
| | तीन | पाठ कृतिका मेरे संग 2 की औरतें | पाठ पठन,सार पाठ का विस्तृत वर्णन प्रश्न उत्तर | नारी सशक्तिकरण एक कल विचार |
| | चार | पत्र लेखन अनौपचारिक/ औपचारिक अलंकार | अभ्यास कार्य अलंकार का अर्थ अलंकार के भेद शब्दालंकार और अर्थालंकार | |
| अगस्त | एक | अपठित गद्यांश अलंकार | पाठ परिचय, लेखक परिचय, सार, प्रश्न उत्तर | |
| | दो | पाठ क्षितिज काव्य 12 खंड कैदी और कोकिला | पाठ पठन, पाठ का सार,सरलार्थ, भावार्थ, प्रश्न उत्तर | |
| | तीन | अर्थ के आधार पर वाक्य भेद | वाक्य का अर्थ वाक्य के प्रकार अर्थ के आधार पर भेदों का वर्णन | |
| | चार | लघु कथा लेखन अपठित गद्यांश अपठित काव्यांश | कार्यपत्रक अभ्यास अलंकार | |
| सितंबर | दोहराई | अर्धवार्षिक परीक्षा | | |
| अक्टूबर | एक | वाक्य व उसके भेद | पाठ परिचय, सरलार्थ, भावार्थ प्रश्न उत्तर | |

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| | दो | पाठ क्षितिज 6 गद्य खंड प्रेमचंद के फटे जूते | पाठ परिचय, सार प्रश्न उत्तर, पठित गद्यांश | पसंदीदा चरित्र पाठ्यपुस्तक के आधार पर |
| | तीन | समास परिचय | पाठ - परिचय | |
| | चार | अनुच्छेद लेखन अपठित काव्यांश शब्द निर्माण प्रत्यय, उपसर्ग | अभ्यास कार्य , कार्य पत्रक | |
| नवंबर | एक | पाठ कृतिका 3 रीढ़ की हड्डी | पाठ का विस्तृत वर्णन, सार, प्रश्न उत्तर, पठित गद्यांश | |
| | दो | लघुकथा लेखन | | |
| | तीन | अलंकार | अलंकार के भेद परिभाषा, शब्दालंकार व अर्थालंकार | |
| | चार | संवाद लेखन | अभ्यास कार्य | |
| दिसम्बर | एक | पाठ कृतिका 4 माटी वाली | पाठ व लेखक परिचय, सार, प्रश्न/उत्तर | |
| | दो | पाठ क्षितिज काव्य 17 खंड बच्चे काम पर जा रहे हैं। | कविता परिचय, सार सरलार्थ, भावार्थ, प्रश्न उत्तर | |
| | तीन | पत्र लेखन औपचारिक/अनौपचारिक | अभ्यास कार्य | |
| | चार | लघुकथा लेखन | अभ्यास कार्य | |
| जनवरी | दोहराई | दोहराई | | |
| फरवरी | दोहराई | वार्षिक पाठ्यक्रम की | | |

ICT

Term 1

| <u>Month</u> | <u>Topic</u> | <u>Pedagogical Skills</u> |
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| April | Chapter 7: Open Office .org Writer - I | |
| Week 1 | <ul style="list-style-type: none"> Introducing to a Word Processor Features of Word Processors Getting Started with OO. Writer | <ul style="list-style-type: none"> Understanding use of Word Processors |
| Week 2 | <ul style="list-style-type: none"> Creating/Opening/Saving Documents in Writer Word Processing Terminology | <ul style="list-style-type: none"> LAB Work - Creating Documents & setting margins |

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| | <ul style="list-style-type: none"> • Margins | |
| Week 4 | <ul style="list-style-type: none"> • Line Spacing • Editing a Document • Formatting a Document- Character, Paragraph & Page Formatting | <ul style="list-style-type: none"> • LAB Work- Formatting Document • Question Papers can be given to prepare the same. |
| May | Chapter 8: Open Office .org Writer – II | |
| Week 1 | <ul style="list-style-type: none"> • Creating Bulleted or Numbered Lists • Nested Lists • Formatting Lists | <ul style="list-style-type: none"> • LAB Work - Creating Bulleted or Numbered Lists |
| Week 2 | <ul style="list-style-type: none"> • Using Grammar and Spell Check • Inserting Graphics in Writer • Insert a Text Box | <ul style="list-style-type: none"> • LAB Work – inserting shapes from Drawing Toolbar |
| Week 3 | <ul style="list-style-type: none"> • Change Line Style or Line Colour in a Drawing Object • Inserting Pictures from File/ Gallery | <ul style="list-style-type: none"> • LAB Work – Working with Lists |
| Week 4 | <ul style="list-style-type: none"> • Find and Replace • Printing and Getting Help • Working with Tables | <ul style="list-style-type: none"> • LAB Work – Making Tables • Doing Practical Assignment • Hands on Problems |
| July | Chapter 9: Presentation Tool: OO Impress | |
| Week 1 | <ul style="list-style-type: none"> • Introduction to Presentation Graphics • Steps to Impress Presentation • Presentation Tips | <ul style="list-style-type: none"> • Understanding How to make PPT |
| Week 2 | <ul style="list-style-type: none"> • Creating New Presentation • Different Views of a Slide • Adding New Slides | <ul style="list-style-type: none"> • Understanding Different views of a slide |
| Week 3 | <ul style="list-style-type: none"> • Editing and Formatting a Slide • Headers and Footers • Adding Illustrations to Slides | <ul style="list-style-type: none"> • LAB Work – Making PPT on Different Themes |
| Week 4 | <ul style="list-style-type: none"> • Grouping/ Ungrouping Objects • Working in Slide Sorter View • Inserting Music or Sound on a Slide • Creating Slide Shows | <ul style="list-style-type: none"> • LAB Work- Adding new Slides • Doing Practical Assignment • Hands on Problems of the Chapter |
| August | Chapter 6: Cyber Safety | |
| Week 1 | <ul style="list-style-type: none"> • Introduction • What is Cyber Safety? • Identity Protection while using Internet • Many Ways Websites Track you | <ul style="list-style-type: none"> • Discussion on Cyber Security |
| Week 2 | <ul style="list-style-type: none"> • Private Browsing and Anonymous Browsing • Proxy • Virtual Private Network • Proper Usage of Passwords | <ul style="list-style-type: none"> • Telling Students the type of Password they can set for their accounts |
| Week 3 | <ul style="list-style-type: none"> • Ways in which your Password may be cracked • Choosing Good Passwords | <ul style="list-style-type: none"> • Discussion on Confidentiality of Information |

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| | <ul style="list-style-type: none"> Confidentiality of Information Practices to Ensure Confidentiality of Information | |
| Week 4 | <ul style="list-style-type: none"> Online Safety Damage Caused by Malware Safety Measures Cyber Crime Cyber Bullying | <ul style="list-style-type: none"> With videos showing students how bullying is dangerous Discussion on Safety Measures |
| September | ----- | |

Term 2

| <u>Month</u> | <u>Topic</u> | <u>Pedagogical Skills</u> |
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| October | Chapter 1: Computer System Chapter 2: Types of Hardware | |
| Week 1 | <ul style="list-style-type: none"> Introduction of Computer System Computers and Us Convergence of Technologies Overview of Communication Technologies What is a Computer? | <ul style="list-style-type: none"> Live Demonstration of parts of Computer in LAB Understanding Uses of Computer by taking real life examples |
| Week 2 | <ul style="list-style-type: none"> Functioning of a Computer? Functional Components of a Computer System CPU- The Computer's Brain Characteristics of a Computer Types of Computers | <ul style="list-style-type: none"> From Diagram Understanding components of Computer System |
| Week 3 | <ul style="list-style-type: none"> Worksheet Will be given and discussed on Types of Computers Types of Digital Computers Introduction of Computer Hardware Computer System – An Overview Memory in a Computer System Units of Memory | <ul style="list-style-type: none"> Worksheets that are based on Types and Uses of Computers |
| Week 4 | <ul style="list-style-type: none"> Main (Primary) Memory Limitations of RAM Computer's Performance Storage Devices Input Devices Output Devices | <ul style="list-style-type: none"> Display of Different devices in Lab (Which are available)and Book |
| November | Chapter 3: Types of Software Chapter 9: Presentation Tool: OO Impress | |
| Week 1 | <ul style="list-style-type: none"> Introduction to Software Types of Software System Software Operating System Language Processors (Translators) | <ul style="list-style-type: none"> Understanding Importance and Functioning of Operating System by examples |

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| Week 2 | <ul style="list-style-type: none"> • Utility Software- Antivirus Software, Encryption/ Decryption Software • Application Software- General Purpose, Specific Purpose and Customised Software | <ul style="list-style-type: none"> • Giving real life Examples of Different Application Software. |
| Week 3 | <ul style="list-style-type: none"> • Introduction to Presentation Graphics • Steps to Impress Presentation • Presentation Tips • Creating New Presentation • Different Views of a Slide | <ul style="list-style-type: none"> • LAB Work – Making PPT on Different Themes |
| Week 4 | <ul style="list-style-type: none"> • Adding New Slides • Editing and Formatting a Slide • Headers and Footers • Adding Illustrations to Slides • Grouping/ Ungrouping Objects • Working in Slide Sorter View • Inserting Music or Sound on a Slide • Creating Slide Shows | <ul style="list-style-type: none"> • LAB Work- Adding new Slides • Doing Practical Assignment • Hands on Problems of the Chapter |
| December | Chapter 4: Basics of Operating Systems Chapter 5: Computer Networking, Multimedia Basics | |
| Week 1 | <ul style="list-style-type: none"> • Introduction to Operating System • Basic Concepts of Operating System • Role of OS • Need for Operating System • Operating Systems – Shell and Kernel | <ul style="list-style-type: none"> • By Discussion Understanding the Shell and Kernel Part of Operating System |
| Week 2 | <ul style="list-style-type: none"> • Functions of OS • Device Drivers • Types of Operating Systems • OS based on Types of Interfaces • Commonly used Operating Systems • File System • Role of a File System | <ul style="list-style-type: none"> • Discussing different Types of Operating Systems • Asking questions to students about the OS they are using in their system. |
| Week 3 | <ul style="list-style-type: none"> • Introduction to Networking • What is a Network? • Types of Networks- LAN, MAN and WAN • Internet | <ul style="list-style-type: none"> • Giving different real life Examples of the Networks |
| Week 4 | <ul style="list-style-type: none"> • Uses of Internet • Communication in Networks – Communication/Transmission Media • Cloud Computing • Multimedia | <ul style="list-style-type: none"> • Asking students about the Internet services they are using |
| January | Chapter 10: Spreadsheet Tool : OO Calc -1 | |
| Week 1 | <ul style="list-style-type: none"> • Introduction to Spreadsheet | <ul style="list-style-type: none"> • LAB Work- Creating Spreadsheet |

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| | <ul style="list-style-type: none"> • Calc Spreadsheet Basics • Working in Spreadsheets | |
| Week 2 | <ul style="list-style-type: none"> • Editing Cell Contents • Copying a Range • Moving range • Naming and Filling a Range • Filling by Dragging Fill Handle | <ul style="list-style-type: none"> • LAB Work- Editing Spreadsheet • Doing Practical Assignment • Hands on Problems of the Chapter |
| Week 3 | <ul style="list-style-type: none"> • Commands for Worksheet/ Workbook • Saving a Workbook • Retrieving a Workbook • Erasing a Worksheet • Inserting Cells Row/ Column in a Worksheet • Deleting Cells/Rows/Columns | <ul style="list-style-type: none"> • LAB Work- create a Spreadsheet of your class, find out Total, Percentage and Grade for Each Student |
| Week 4 | <ul style="list-style-type: none"> • Some Useful Functions • SUM • AVERAGE • COUNT • MAX • MIN • IF Statement | <ul style="list-style-type: none"> • LAB Work- Using different Functions |
| February | Chapter 11: Spreadsheet Tool : OO Calc -II | |
| Week 1 | <ul style="list-style-type: none"> • Introduction to Spreadsheet • Formatting Data • Formatting Numbers and Text • Changing Font, Size, Style, Alignment through Formatting Toolbar | <ul style="list-style-type: none"> • LAB Work- Formatting Data entered in Spreadsheets • Doing Practical Assignment |
| Week 2 | <ul style="list-style-type: none"> • Charts in OO. Calc • Types of Charts | <ul style="list-style-type: none"> • Understanding different types of Charts |
| Week 3 | <ul style="list-style-type: none"> • Components of a Chart • Creating a Chart in OO. Calc | <ul style="list-style-type: none"> • LAB Work- Insert Chart and edit |
| Week 4 | <ul style="list-style-type: none"> • Moving and Resizing Embedded Charts • Saving and Retrieving Charts • Printing Worksheets/ Charts • Print Sheet(s)/ Range/ Entire Workbook | <ul style="list-style-type: none"> • LAB Work- Telling steps to Save and Print Spreadsheet • Hands on Problems of the Chapter |
| March | ----- | |

Science

| Term -1 | | |
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| MONTH | CONTENT | SUBJECT ENRICHMENT ACTIVITY |
| APRIL | Biology Chapter-5 Fundamental unit of life | Lab work- Making slide of onion peel Presentation by students |

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| MAY | Physics Chapter-8 Motion | Exposure to speedometer and odometer in school buses Practice Assignment of numericals |
| JULY | Physics Chapter- 9 Force and laws of motion Chemistry Chapter-2 Is matter around us is pure? | Presentation by students: practical application of laws of motion Lab work (to observe different types of mixtures) |
| AUGUST | Biology Chapter- 6 Tissues | Lab Work(to observe slides) |
| September | Half yearly Examination | |
| | Term -2 | |
| OCTOBER | Chemistry Chapter-3 Atoms and molecules Physics Chapter-11 Work and energy | Practice worksheet related to numericals of laws of chemical combination and mole concept |
| NOVEMBER | Biology Chapter- 13 Why do we fall ill Physics Chapter -10 Gravitation | Presentation By Students Project work- case study of various diseases Practice of numericals |
| DECEMBER | Chemistry Chapter-4 Structure of Atom | Project work (Bohr model) |
| JANUARY | Biology Chapter-14 Natural resources Revision | Project Report: For internal assessment only |
| FEBRUARY | Revision | |