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ENGLISH

Flamingo - NCERT, Vistas - NCERT

The Hound of The Baskervilles by Arthur Conan Doyle - Crossbill

MONTH	TOPIC	
April	<ol style="list-style-type: none">1. Notice2. Posters3. Advertisements4. Comprehension5. Note-making and Summary6. The Last Lesson7. My Mother At Sixty Six8. Lost Spring9. An Elementary School Classroom in a Slum10. Novel – The Hound of the Baskervilles – Chapters 1 and 2	
May	<ol style="list-style-type: none">1. Letter of Complaint3. Article Writing5. Keeping Quiet	<ol style="list-style-type: none">2. Letter of Enquiry and Reply to Enquiry4. Deep Water6. Novel – Chapters 3 and 4

MONTH	TOPIC	
July	1. Comprehension 3. Report Writing 5. Article Writing 7. A Thing of Beauty 9. Novel – Chapters 5 and 6	2. Note-making and Summary 4. Letter to the Editor 6. The Rattrap 8. The Tiger King
August	1. Application for a job 3. Note-making and Summary 5. Letters Placing Orders 7. The Enemy 9. Novel – Chapters 7 and 8	2. Comprehension 4. Article Writing 6. Invitations and Replies 8. Indigo
September	1. Comprehension 3. Article Writing 5. On the Face of It (Not to be tested in First Term)	2. Note-making and Summary 4. Speech 6. Novel – Chapters 9, 10 and 11 (Not to be tested in First Term)
	First Term Examination	

MONTH	TOPIC
October	<ol style="list-style-type: none"> 1. Comprehension 2. Note-making and Summary 3. Memories of Childhood 4. Should Wizard Hit Mommy ? 5. Novel – Chapters 12 and 13
November	<ol style="list-style-type: none"> 1. Comprehension 2. Note-making and Summary 3. Article Writing 4. Report Writing 5. Going Places 6. Evans Tries An O'level 7. Aunt Jennifer's Tigers 8. Novel – Chapters 14 and 15 9. Syllabus completion by 20 Nov. 2013
December	Second Term Examination
January	Pre-Board Examination

NOTE :

- (i) The following lessons have been deleted from the 2 text-books :

Flamingo :

1. Poets and Pancakes
2. The Interview
3. A Roadside Stand

Vistas :

1. The Third Level
2. Journey To The End of The Earth

- (ii) Please note the change in marks distribution of the paper (CBSE Curriculum 2014)
- (iii) 10 marks have been allotted for Listening / Speaking Skills.
- (iv) Teachers should instruct students to read the novel during the summer holidays.
- (v) Completion of syllabus by 20 November 2013.

MATHEMATICS

Mathematics for Class XII (NCERT)

MONTH	TOPIC	SUB TOPIC
March	Matrices	<ul style="list-style-type: none">• Definition, Types of Matrices, Elementary Operations.
April	Determinants Relations and Functions	<ul style="list-style-type: none">• Evaluation, Properties, Solving system of equations.• Types of relations, Types of functions, Bijective functions, Binary operations
May	Continuity and Differentiability	<ul style="list-style-type: none">• Continuity of a function in domain and at a point• Derivative of composite functions• Derivative of parametric function, second order derivative, Mean value theorem
July	Application of Derivatives	<ul style="list-style-type: none">• Rate of change of quantities• Increasing and decreasing function Tangents and Normals• Approximation, Maxima and Minima
August	Integral Calculus	<ul style="list-style-type: none">• Integration by substitution, by Partial fraction and by parts. Some special integral, definite integral as a limit of a sum, properties of definite integral.

MONTH	TOPIC	SUB TOPIC
August - September	Application of Integrals Differential Equations	<ul style="list-style-type: none"> • Applications in finding the area under simple curves. • Formation and solution of differential equations.
October	Probability Vectors	<ul style="list-style-type: none"> • Conditional probability, Baye's Theorem, Mean, Variance, Binomial Distribution. • Scalar and vector product of vectors.
November	3D Geometry Linear Programming	<ul style="list-style-type: none"> • Direction Cosines, direction ratios of a line, equation of a line, skew lines, plane. • Formulation and graphical solution of linear programming

PHYSICS

Physics NCERT (Part 1 and Part 2), Comprehensive Practicals

MONTH	UNIT	SUB TOPIC	EXPERIMENTS / ACTIVITIES
March	Unit 1 : ■ Electro-statics	<ul style="list-style-type: none"> Electric charges and their conservation, Coulomb's law, continuous charge distribution, electric field, electric field due to a point charge, electric field lines; electric dipole, electric field due to a dipole; torque on a dipole in an uniform electric field. 	Experiments : 1. To determine resistance per cm of a given wire (Ohm's Law) 2. To determine resistance of a galvanometer by half-deflection method
April	Unit 1 : ■ Electro-statics (contd.)	<ul style="list-style-type: none"> Electric flux, statements of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside). Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipoles in an electrostatic field. 	Experiments : 3. To find resistance of a given wire using metre bridge and determine the specific resistance of its material. Activities : 1. To draw the diagram of a given open circuit. 2. To assemble the components of a given electrical circuit.

MONTH	UNIT	SUB TOPIC	EXPERIMENTS / ACTIVITIES
April	Unit 1 : <ul style="list-style-type: none"> ■ Electro-statics (contd.) Unit 2 : <ul style="list-style-type: none"> ■ Current Electricity 	<ul style="list-style-type: none"> • Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor Van de Graaff generator. • Electric current, flow of electric charges in a metallic conductor, drift velocity and mobility, and their relation with electric current; Ohm's law, electrical resistance V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity. 	Experiments <ol style="list-style-type: none"> 4. Verify the laws of combination (series / parallel) of resistances using a metre bridge.
May	Unit 2 : <ul style="list-style-type: none"> ■ Current Electricity 	<ul style="list-style-type: none"> • Carbon resistors, colour code for carbon resistors, series and parallel combinations of resistors, temperature dependence of resistance, internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel. 	Activities <ol style="list-style-type: none"> 3. To assemble a household circuit.

MONTH	CHAPTER / TOPIC	SUB TOPIC	EXPERIMENTS / ACTIVITIES
May	<p>Unit 2 :</p> <ul style="list-style-type: none"> ■ Current Electricity (contd.) <p>Unit 7 :</p> <ul style="list-style-type: none"> ■ Dual Nature of Matter and Radiation <p>Unit 8 :</p> <ul style="list-style-type: none"> ■ Atoms and Nuclei 	<ul style="list-style-type: none"> • Kirchoff's laws and simple applications, Wheatstone bridge, metre bridge. Potentiometer – principle and applications to measure potential difference, and for comparing emf of two cells, measurement of internal resistance of a cell. • Photoelectric effect, Hertz and Lenard's observations, Einstein's photoelectric equation – particle nature of light. Matter waves – wave nature of particles, de Broglie relation. Davisson-Germer experiment (experiment details should be omitted, only conclusion should be explained). • Alpha-particle scattering experiment; Rutherford's model of atom, Bohr model, energy levels, hydrogen spectrum. Composition and size of nucleus, atomic masses, isotopes, isobars, isotones. Radioactivity – alpha, beta and gamma particles/rays and their properties, radioactive decay law. Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number, nuclear fission and fusion. 	<p>Experiments</p> <ol style="list-style-type: none"> 5. To compare the emfs of two given primary cells using potentiometer. 6. To find the internal resistance of a primary cell using potentiometer. <p>Activities</p> <ol style="list-style-type: none"> 4. To study the variation in potential drop with length of a wire for a steady current.

MONTH	CHAPTER / TOPIC	SUB TOPIC	EXPERIMENTS / ACTIVITIES
July	Unit 3 : ■ Magnetic Effects of Current and Magnetism	<ul style="list-style-type: none"> • Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire, straight and toroidal solenoids. Force on a moving charge in uniform magnetic and electric fields. Cyclotron. Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel current carrying conductors – definition of ampere. Torque experienced by a current loop in a magnetic field, moving coil galvanometer, its current sensitivity and conversion to ammeter and voltmeter. Current loop as a magnetic dipole and its magnetic dipole moment. Magnetic dipole moment of a revolving electron. Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field, bar magnet as an equivalent solenoid, magnetic field lines, Earth's magnetic field and magnetic 	Experiments 7. To determine angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and the angle of deviation. 8. To determine refractive index of a glass slab using a travelling microscope.

MONTH	CHAPTER / TOPIC	SUB TOPIC	EXPERIMENTS / ACTIVITIES
July	Unit 4 : ■ Electro-magnetic Induction	<p>elements. Para-, dia- and ferro- magnetic substances, with examples. Electro-magnets and factors affecting their strengths. Permanent magnets.</p> <p>Electromagnetic induction, Faraday's Law, induced emf and current, Lenz's Law, Eddy currents. Self and mutual inductance.</p>	
August	Unit 4 : ■ Alternating Currents	<ul style="list-style-type: none"> • Alternating currents, peak and rms value, alternating current / voltage, reactance and impedance; LC oscillations (qualitative treatment only), LCR series circuit, resonance, power in AC circuits, wattless current. • Reflection of light, spherical mirror, mirror formula. Refraction of light, total internal reflection and its applications, optical fibres refraction at spherical surfaces, lenses, thin lens formula, lens-maker's formula. 	<p>Experiments</p> <p>9. To find the frequency of the ac mains with a sonometer.</p> <p>10. To find the focal length of a convex mirror, using a convex lens.</p> <p>Activities</p> <p>5. To observe polarization of light using two polaroids.</p>

MONTH	CHAPTER / TOPIC	SUB TOPIC	EXPERIMENTS / ACTIVITIES
September	Unit 6 : ■ Optics (contd.)	<ul style="list-style-type: none"> • Magnification, power of a lens, combination of thin lenses in contact, combination of a lens and a mirror. • Refraction and dispersion of light through a prism. • Scattering of light – blue colour of the sky and reddish appearance of the sun at sunrise and sunset. • Optical instruments : Human eye, image formation and accommodation, correction of eye defects (myopia and hypermetropia) using lenses. Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers. 	
October	Unit 6 : ■ Optics (contd.)	<ul style="list-style-type: none"> • Wave optics: Wavefront and Huygens' principle, reflection and refraction of plane wave at a plane surface using wavefronts. • Proof of laws of reflection and refraction using Huygens' principle. • Interference, Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light. 	Experiments 11. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.

MONTH	CHAPTER / TOPIC	SUB TOPIC	EXPERIMENTS / ACTIVITIES
October	Unit 9 : ■ Electronic Devices	<ul style="list-style-type: none"> • Diffraction due to a single slit, width of central maximum. • Resolving power of microscopes and astronomical telescope. Polarisation, plane polarised light; • Brewster's law, uses of plane polarised light and Polaroids. • Energy bands in solids (qualitative ideas only), conductors, insulators and semi-conductors; semiconductor diode – I-V characteristics in forward and reverse bias, diode as a rectifier; I-V characteristics of LED, photodiode, solar cell and Zener diode; Zener diode as a voltage regulator. Junction transistor, transistor action, characteristics of a transistor; transistor as an amplifier (common emitter configuration). and oscillator. Logic gates (OR, AND, NOT, NAND and NOR). Transistor as a switch. 	<p>12. To find the focal length of a concave mirror by plotting graphs between u and v or between $1/u$ and $1/v$.</p> <p>Activities</p> <p>6. To observe diffraction of light due to a thin slit using LASER KIT.</p>

MONTH	CHAPTER / TOPIC	SUB TOPIC	EXPERIMENTS / ACTIVITIES
November	Unit 5 : ■ Electro-magnetic Waves Unit 10 : ■ Communication Systems	<ul style="list-style-type: none"> • Need for displacement current. • Electromagnetic waves and their characteristics (qualitative ideas only). Transverse nature of electromagnetic waves. • Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, x-rays, gamma rays) including elementary facts about their uses. • Elements of a communication system (block diagram only), bandwidth of signals (speech, TV and digital data), bandwidth of transmission medium. Propagation of electromagnetic waves in the atmosphere, sky and space wave propagation. Need for modulation. Production and detection of an amplitude-modulated wave. 	Experiments 13. To draw the I-V characteristics curves of a p-n junction in forward bias and reverse bias. 14. To draw the characteristics curve of a zener diode and to determine its reverse break down voltage. 15. To study the characteristics of a common-emitter npn of pnp transistor and to find out the values of current and voltage gains.

CHEMISTRY

Chemistry NCERT (Vol 1 and Vol 2), Comprehensive Practicals

MONTH	CHAPTER / TOPIC	SUB TOPIC	PRACTICAL / ACTIVITIES
March	<ul style="list-style-type: none"> Unit 10 Haloalkanes and Haloarenes 	<ul style="list-style-type: none"> Classification Nature of C-X bond Physical properties Nomenclatures Methods of preparations Chemical reactions 	<ul style="list-style-type: none"> Volumetric Analysis - 1
April	<ul style="list-style-type: none"> Unit 11 Alcohols, Phenols and Ethers 	<ul style="list-style-type: none"> Classification Structure of Functional groups Alcohols and phenols Some commercially important alcohols Ethers Nomenclature 	<ul style="list-style-type: none"> Volumetric Analysis - 2
	<ul style="list-style-type: none"> Unit 15 Polymers 	<ul style="list-style-type: none"> Classification and types of polymers Molecular mass of polymers Biodegradable polymers Polymers of commercial importance 	<ul style="list-style-type: none"> Crystallisation of double salt
	<ul style="list-style-type: none"> Unit 16 Chemistry in Everyday Life 	<ul style="list-style-type: none"> Drugs and their classification, Drugs - Target Interaction, Therapeutic action, Chemicals in food, Cleansing agent, Antioxidants 	

MONTH	CHAPTER / TOPIC	SUB TOPIC	PRACTICAL / ACTIVITIES
May	■ Unit 1 The Solid State	<ul style="list-style-type: none"> • Amorphous and crystalline solids • Classification of crystalline solids • Crystal lattice and unit cells • No. of atoms • Close packed structure • Packing efficiency • Calculations • Imperfections • Electrical and Magnetic properties 	<ul style="list-style-type: none"> • Unknown Salt Analysis
	■ Unit 2 Solutions	<ul style="list-style-type: none"> • Types of solutions • Vapour Pressure • Ideal and Non-ideal solutions • Colligative properties and determination of molar mass • Abnormal mass • Concentration • Van't Hoff Factor 	<ul style="list-style-type: none"> • Preparation of Sol
	■ Unit 6 General Principles of Extractions	<ul style="list-style-type: none"> • Occurrence of metals • Extraction of crude metal from concentrated ores • Ellingham diagrams • Oxidation and reduction • Uses of aluminium, iron, copper and zinc • Concentration of ores 	<ul style="list-style-type: none"> • Unknown Salt Analysis

MONTH	CHAPTER / TOPIC	SUB TOPIC	PRACTICAL / ACTIVITIES
July	<ul style="list-style-type: none"> ■ Unit 5 Surface Chemistry 	<ul style="list-style-type: none"> • Adsorption • Classification of Colloids • Catalysis • Colloids • Colloids around us • Emulsions 	
	<ul style="list-style-type: none"> ■ Unit 3 Electro-chemistry 	<ul style="list-style-type: none"> • Electrochemical cells • Nernst equations • Conductance of electrolytes • Batteries • Galvanic cells • Electrolytic cell • Corrosion 	<ul style="list-style-type: none"> • Unknown Salt Analysis
	<ul style="list-style-type: none"> ■ Unit 4 Chemical Kinetics 	<ul style="list-style-type: none"> • Rate of Chemical Reaction • Factors influencing the Rate • Integrated Rate Equation • Pseudo first order reactions • Temperature dependence and collision theory 	<ul style="list-style-type: none"> • Unknown Salt Analysis
August	<ul style="list-style-type: none"> ■ Unit 12 Aldehydes, Ketones and Carboxylic Acids 	<ul style="list-style-type: none"> • Nomenclature and structure of carbonyl group • Preparation and properties of aldehydes and ketones • Nomenclature and structure of carboxyl group • Preparations • Properties and uses 	<ul style="list-style-type: none"> • Unknown Salt Analysis

MONTH	CHAPTER / TOPIC	SUB TOPIC	PRACTICAL / ACTIVITIES
August	<ul style="list-style-type: none"> ■ Unit 13 Organic Compounds containing Nitrogen 	<ul style="list-style-type: none"> • Structure • Classification and nomenclature of amines • Preparation and properties • Preparation of diazonium salts and their properties 	<ul style="list-style-type: none"> • Unknown Salt Analysis
September	<ul style="list-style-type: none"> ■ Unit 14 Biomolecules 	<ul style="list-style-type: none"> • Carbohydrates • Enzymes • Nucleic acids • Proteins • Vitamins • Elementary idea of hormones 	<ul style="list-style-type: none"> • Detection of functional groups
October	<ul style="list-style-type: none"> ■ Unit 7 P- Block Elements 	<p>Group - 15 Elements</p> <ul style="list-style-type: none"> • Dinitrogen • Nitric Acid • Oxides of Nitrogen • Oxoacids of Phosphorous • Ammonia • Phosphine • Phosphorous Halides <p>Group - 16 Elements</p> <ul style="list-style-type: none"> • Dioxygen • Sulphur dioxides • Oxoacids • Ozone • Sulphuric acid 	<ul style="list-style-type: none"> • Preparation of organic compound

MONTH	CHAPTER / TOPIC	SUB TOPIC	PRACTICAL / ACTIVITIES
October		Group - 17 Elements <ul style="list-style-type: none"> Chlorine Oxoacids of halogens Interhalogen compounds Group - 18 Elements <ul style="list-style-type: none"> Position in the periodic table Compounds of xenon 	
	Unit 8 d & f-block Elements	<ul style="list-style-type: none"> Electronic configuration General properties Important compounds Lanthanoids and Actinoids Applications of d and f-block elements 	<ul style="list-style-type: none"> Detection of functional groups
November	Unit 9 Coordination Chemistry	<ul style="list-style-type: none"> Werner's Theory Important Terms Nomenclature of coordination compounds Isomerism Bonding in metal Carbonyls Stability of Coordination Compounds 	<ul style="list-style-type: none"> Separation by Chromatography

BIOLOGY

Biology for Class XII (NCERT), Comprehensive Lab Manual for Biology

MONTH	CHAPTER / TOPIC	SUB TOPIC	PRACTICAL / ACTIVITIES
March - April	1. Reproduction in Organisms	Asexual reproduction, Sexual reproduction	1. Study of pollen germination
	2. Reproduction in Plants (sexual)	Parts of a flower Prefertilization : structure and events (stamen, pistil) Fertilization Post fertilization : Str. and events.	2. Study of gametogenesis 3. Study of meiosis
	3. Human Reproduction	♂ and ♀ reproductive system Gametogenesis Fertilization and Implantation Pregnancy and Embryonic development	4. Study of blastulation 5. Pollination in anemophilous flower (salvia)
	4. Reproductive Health	Problems, Strategy, Birth control, STD	

MONTH	CHAPTER / TOPIC	SUB TOPIC	PRACTICAL / ACTIVITIES
May	5. Principles of Inheritance and Variation 6. Molecular Basis of Inheritance	Mendel's Laws, Theories of inheritance. Structure : DNA, RNA, Genetic Code, Gene regulation	6. Analysis of (a) Genetic pedigree charts (b) Mendelian Ratios
July	7. Evolution 8. Human Health and Disease 9. Strategies for Enhancement in Food Production 10. Microbes in Human Welfare	Adaptive radiation, Mechanism, Origin and evolution of man Common diseases, Immunity, AIDS, Cancer, Drugs and Alcohol abuse Management of farms, Animal breeding, Plant breeding, Tissue Culture Antibiotics, enzymes, Sewage treatment, Biogas, Biofertilizers	7. Study of organisms causing common human diseases. 8. Effect of temperature and pH on action of salivary amylase.

MONTH	CHAPTER / TOPIC	SUB TOPIC	PRACTICAL / ACTIVITIES
August	11. Biotechnology : Principles and Processes	rDNA technology	9. Study of soil (a) Physical property (b) Water holding capacity (c) pH 10. Prepare a temporary mount of onion root tip.
September	Term Exam and Revision		
October	12. Biotechnology & Its Applications 13. Ecology : Organisms and Populations 14. Ecosystem	Agriculture, medicine, transgenic animals Abiotic factors, Adaptations, Populations Interactions Structure and functions, Decomposition, Ecological Pyramids	11. Study of Xerophytic and Aquatic Organisms 12. Study of plant population density and frequency. 13. Study of water samples for microbes and pH.
November	15. Biodiversity and Conservation 16. Environmental Issues	Species diversity, loss of biodiversity Pollution, water treatment, waste disposal	

ACCOUNTANCY

Book by T.S. Grewal

MONTH	TOPIC	SUB TOPIC
April	Unit - 4 <ul style="list-style-type: none">■ Accounting for Share Capital	<ul style="list-style-type: none">• Meaning, Nature and types, Accounting for share capital; Issue and allotment of equity and preference shares, Private placement of shares, meaning of employee stock option plan, public subscription of shares over and under subscription, issue at par, premium and at discount. Calls in advance, in arrears, issue for consideration other than cash. <p><i>Forfeiture of shares :</i></p> <ul style="list-style-type: none">• Accounting treatment, re-issue of forfeited shares.• Presentation of share capital in company's balance sheet.• At par and premium.
April - May	Part - B Unit - 5 <ul style="list-style-type: none">■ Analysis of Financial Statements	<ul style="list-style-type: none">• Financial statements of a company : Preparation of simple balance sheet of a company• Tools for financial analysis : Comparative and Common size statements.

MONTH	TOPIC	SUB TOPIC
April - May	Unit - 5 ■ Ratio Analysis	<ul style="list-style-type: none"> • ACCOUNTING RATIOS : Meaning and objectives, types of ratios : Liquidity Ratio : Current ratio, Liquid ratio. Solvency Ratios : Debt to equity, Total assets to Debt, Proprietary ratio, Interest coverage ratio. Activity Ratios : Inventory turnover ratio, debtors turnover ratios, payables turnover ratios, working capital turnover ratios, fixed assets turnover ratio. Profitability Ratio : G.P. ratio, operating ratio, Net profit ratio, Return on investment, Earning per share.
July	Unit - 6 ■ Cash Flow Statement	<ul style="list-style-type: none"> • Meaning, objectives and preparation of cash flow statement, adjustments related to depreciation, dividend and tax, sale and purchase of non-current assets (as per revised by ICAI). • Project work in accounting (as per guidelines by CBSE).
	Unit - 2 ■ Accounting for Partnership Firms	<ul style="list-style-type: none"> • Nature of Partnership Firm - Partnership Deed - Meaning and importance. • Partner's Capital accounts • Fixed vs fluctuating capital • Division of profit among partner. • P & L appropriation A/c (past adjustments)

MONTH	TOPIC	SUB TOPIC
August	Unit - 3 Reconstitution of Partnership <ul style="list-style-type: none"> ■ Change in Profit Sharing Ratio 	<ul style="list-style-type: none"> • Among the existing partners - sacrificing and Gaining ratio. • Accounting for Revaluation of assets and liabilities and distribution of Reserve and Accumulated profits. • Goodwill - Nature, factors affecting and methods of valuation. • Average profit, super profit and capitalisation methods. • Effects of admission, change in profit sharing ratio, accounting treatment of goodwill (as per AS-10) Revaluation of assets and liabilities, reserves and adjustment of capital, Retirement and death
	<ul style="list-style-type: none"> ■ Dissolution of Partnership 	<ul style="list-style-type: none"> • Concepts and causes of dissolution • Accounting treatment of dissolution
September	Unit - 4 <ul style="list-style-type: none"> ■ Accounting for Debentures ■ Issue of Debentures <ul style="list-style-type: none"> • Redemption of Debentures 	<i>Forfeiture of shares :</i> <ul style="list-style-type: none"> • Issue of debentures as collateral security. • Issue of debenture for consideration other than cash. • Redemption of Debentures. Out of capital; redemption methods - lump-sum payment, draw by lots, conversion.

BUSINESS STUDIES

Principle And Functions of Management - I (NCERT)

Business Finance and Management - II (NCERT)

MONTH	TOPIC	SUB TOPIC
March	PART - A Unit - 1 (Principles and Functions of Management) ■ Nature and Significance of Management	<ul style="list-style-type: none">• Management - concept, objectives and importance.• Management as science, art and profession.• Management functions planning, organizing, staffing, directing and controlling.• Levels of Management• Co-ordination - concept, characteristics and importance.
	Unit - 2 ■ Principles of Management	<ul style="list-style-type: none">• Principles of management - Meaning, nature and significance.• Fayol's principles of management.• Taylor's scientific management - principles and techniques.
April	Unit - 3 ■ Business Environment	<ul style="list-style-type: none">• Business Environment meaning and importance.• Dimensions of Business environment - economic, social, technological, political and legal.• Impact of government policy changes on business and industry with special reference to adoption of policies of liberalisation, privatisation and globalisation.

MONTH	TOPIC	SUB TOPIC
April	Unit - 4 ■ Planning	<ul style="list-style-type: none"> • Meaning, features, importance and limitations. • Planning process • Single use and standing plans - objectives, strategy, policy, procedure, methods, rule, budget and programmes.
	Unit - 5 ■ Organising	<ul style="list-style-type: none"> • Meaning and importance • Steps of organising process • Structure of organisation - Functional and Divisional • Formal and Informal organisation • Delegation - meaning, elements and importance. • Decentralisation - meaning and importance. • Difference between Delegation and Decentralisation
May	Unit - 6 ■ Staffing	<ul style="list-style-type: none"> • Meaning, need and importance of staffing. • Staffing as a part of human resource management. • Steps in Staffing process. • Recruitment, meaning and sources. • Selection, meaning and process. • Training and Development - meaning and need, methods of training, Job rotation, apprenticeship, vestibule and internship.

MONTH	TOPIC	SUB TOPIC
July	Unit - 7 ■ Directing	<ul style="list-style-type: none"> • Meaning, importance and principles. • Elements of directing → Supervision - meaning and importance. • Motivation - meaning; importance ; Maslow's need hierarchy ; financial and non financial incentives. • Leadership - concepts, styles – authoritative, democratic and laissez faire. • Communication - meaning and importance, formal and informal communication, barriers to effective communication.
	Unit - 8 ■ Controlling <u>PART - B</u> (Business Finance and Marketing)	<ul style="list-style-type: none"> • Meaning, importance and nature. • Relationship between controlling and planning. • Steps in the process of control.
August	Unit - 9 ■ Financial Management	<ul style="list-style-type: none"> • Meaning, role, objectives of financial management. • Financial planning - meaning and importance • Capital structure - meaning and factors. • Fixed and working capital - meaning and factors affecting its requirements. • Financial decisions – Investment, financing and dividend and factor affecting.

MONTH	TOPIC	SUB TOPIC
August	Unit - 10 ■ Financial Markets	<ul style="list-style-type: none"> • Concept of financial market and types - Money markets - nature and instruments • Capital market - nature, types - primary and secondary market.
September	Unit - 10 ■ Financial Markets (contd.) Unit - 11 ■ Marketing Management	<ul style="list-style-type: none"> • Stock Exchange - Meaning, functions, Trading Procedure, D'MAT Account and Depository Services. • Securities and Exchange Board of India (SEBI), objectives and functions. • Marketing - Meaning; functions and role, philosophies • Marketing Mix - Concept and elements • Product - concept; branding, labelling and packaging. • Physical distribution - Meaning, channels of distribution - meaning, types, factors determines choice of channels.
October	Unit - 11 ■ Marketing Management (Contd.)	<ul style="list-style-type: none"> • Promotion - Elements of promotion mix; Advertising - role, and objections against advertising; Personal selling - concept and importance; Qualities of a good salesman, Sales promotion - Concept and techniques, Public relations - concept and role • Price - Factors determining fixation of price.

MONTH	TOPIC	SUB TOPIC
October	Unit - 12 ■ Consumer Protection	<ul style="list-style-type: none"> • Concept and importance of consumer protection. • Consumer rights • Consumer responsibilities • Ways and means of consumer protection - consumer awareness and legal redressal with special reference to C.P. Act. • Role of consumer protection organisations and NGOs.

June : Holiday Homework (Project Work)

ECONOMICS

Introductory Micro Economics (Sandeep Garg), Intruductory Macro Economics (Sandeep Garg)

MONTH	TOPIC	SUB TOPIC
March	Unit - 1 : Introduction	(a) What economics is about ? (b) Central Problems / PPC (c) Microeconomics - meaning, Difference between micro and macro economics
	Unit - 2 : Consumer's Equilibrium	(a) Consumer's equilibrium (one commodity case)
April	Unit - 2 : Consumer Behaviour (Contd.) and Demand	(b) Consumer's equilibrium (two commodity case) (c) Indifference curve analysis of consumer's equilibrium. (d) Demand, determinants of demand, demand schedule and curve, concept of Ed - methods of measuring Ed.
May	Unit - 6 : National Income and Related Aggregates	(a) National Income - Circular flow of Income and methods of estimating National Income (b) Aggregates related to National Income
July	Unit - 3 : Producer Behaviour and Supply	(a) Production function (b) Cost and Revenue (c) Producers equilibrium (d) Supply / Elasticity of supply

MONTH	TOPIC	SUB TOPIC
August	Unit - 4 : Forms of Market and Price Determination	(a) Perfect competition and other market forms. (b) Price determination in perfect competition
September	Unit - 7 : Money and Banking	(a) Meaning and functions of money (b) Credit creation by Commercial Banks (c) Functions of Central Bank / Instruments of Monetary Policy
	Revision for First Term Exams.	
October	Unit - 8 : Determination of Income and Employment	(a) Aggregate Demand (b) Propensity to consume and save (c) Short Run Equilibrium (d) Investment Multiplier (e) Meaning of full employment and involuntary unemployment (f) Problems of excess demand and deficient demand.

MONTH	TOPIC	SUB TOPIC
November	Unit - 9 : Government Budget and Economy	<ul style="list-style-type: none"> (a) Meaning, objectives and components (b) Classification of receipts - Revenue and Capital (c) Measures of Government Budget - Revenue, Fiscal and Primary Deficit
	Unit - 10 : Balance of Payments	<ul style="list-style-type: none"> (a) Balance of payment account - meaning and components, balance of payment - deficit, meaning. (b) Foreign exchange rate - meaning of fixed and flexible rates and managed floating. (c) Determination of exchanged rate in free market.

COMPUTER SCIENCE

Intruduction to Computer Science by A.K. Sharma (Vol II)

Computer Science by Sumit Arora (XII)

APRIL

Unit 1 : Programming in C++

- Review : C++ covered in Class XI
- Defining symbols using typedef and macro using # define directive

Object Oriented Programming

- Concept of Object Oriented Programming - Data hiding, Data encapsulation, Class and Object, Polymorphism (Implementation of Polymorphism using Function overloading as an example in C++); Inheritance, Advantages of OOP.

Classes and Objects

- Definition of a class, Data Members and Member Functions (methods) of class; Using Private and Public access specifier; Member functions Definition : inside and outside the class definition, scope resolution operator (::); Declaration of objects, Array of type Class, Object as function arguments pass by value, Static data, constant members, Concept of function overloading by example.

Constructor and Destructor

- Constructor : Special Characteristics, its declaration and definition, Default Constructor, Copy Constructor, Constructor with default arguments; Destructor Special Characteristics, Its declaration and definition;

MAY

Inheritance

- Concept of Inheritance, Base Class, Derived class, Defining a derived classes, protected access specifier; Single level, Multilevel and Multiple inheritance, Private, Public and Protected visibility mode, accessibility of members from objects and within derived class(es), concept of containership.

Data File Handling (During extra classes)

- Need for a data file, Text file and Binary file; Basic file operations on text file, Binary file : ; Basic file operations on binary files, file modes.
 - Components of C++ to be used with file handling : Header file : fstream.h; ifstream, ofstream, fstream classes; Opening a file, writing to the file and reading from the file.
-

JULY

- Operations on text files
- Operations on binary files, Random access using file pointers.

Pointers

- Declaration and Initialization of Pointers; Dynamic memory allocation, operators : New, delete; Array of Pointers, Pointer to an array (1 dimensional array), and Function returning a pointer; Reference variables and use of alias; Function call by reference. Pointer to structures and class : Deference operator : *, & - > self referential structures; This and generic pointer.

Unit 2 : Data Structures

Arrays :

- One and two dimensional arrays : address calculation; One dimensional array : Traversal, Searching, Insertion, deletion, sorting concatenation and merging; Two Dimensional Arrays : basic operations on 2 D array.
-

AUGUST

Stack (Array and Linked Implementation of Stack)

- Operations on Stack (PUSH and POP) and its Implementation in C++ INFIX to POSTFIX conversion, evaluation of POSTFIX expression;

Queue (Circular Array and Linked Implementation)

- Operation on Queue (Insert and Delete) and its Implementation in C++
-

SEPTEMBER

Unit 4 : Boolean Algebra

- Boolean algebra, Binary-valued Quantities, Boolean Variable, Boolean Constant and Boolean Operators : AND, OR, NOT; Truth Tables; Laws and postulated of Boolean algebra.
 - Obtaining SOP and POS form from the Truth Table, Reducing Boolean Expression to its minimal form, Use of K-Map for minimisation of Boolean expressions (up to 4 variables); Basic Logic Gates (NOT, AND, OR NAND, NOR) and their use.
-

OCTOBER

Unit 3 : Database and SQL

Database Concepts

- Relational data model : Concept of domain, tuple, relation, view, keys, Relational algebra : Selection, Projection, Union and Cartesian product;

Structured Query Language

- General concepts : Advantages of using SQL, DDL and DML; Data types : NUMBER, CHARACTER, DATE;

SQL Commands

- CREATE TABLE, DROP TABLE, ALTER TABLE, UPDATE...SET..., INSERT, DELETE; SELECT, FROM, WHERE, GROUP BY, HAVING ORDER BY ; SQL function : SUM, AVG, COUNT, MAX and MIN; Implementation in oracle.
-

NOVEMBER

Unit 4 : Communication and Network Concepts

- Evolution of networking; ARPANET, Internet, Interspace, switching techniques; Data Communication terminologies

- Transmission media : Twisted pair cable, Coaxial cable, optical fiber, infrared, radio link, microwave link and satellite link.
- Network devices, Different Topologies – Bus, Star, Tree; Types – LAN, WAN, MAN; protocol, TCP/IP, FTP, PPP, Telnet, Internet, Wireless / Mobile Communication.
- Network Security Concepts : Cyber Law, Firewall, Cookies, Hackers and Crackers; WebPages; HTML, XML, HTTP Domain Names; URL, Protocol Address; Website, Web browser, Web Servers; Web Hosting.
- Introduction to open source based softwares.

INFORMATICS PRACTICES

Informatics Practices Text Book for Class XI by Sumita Arora, Dhanpat Rai Publication

MONTH	TOPIC	SUB-TOPIC	METHODOLOGY	ACTIVITIES
March	MySQL	<p>Review of MySQL commands done in Class XI.</p> <ul style="list-style-type: none">• Select Statements, Use of Where clause, Comparison operators, Order by clause, Library functions – string, numeric, date.Table creation with constraints – primary key.Inserting new rows in a table• Grouping records – group by functions – MAX(), MIN(), SUM(), AVG(), COUNT()• ALTER table for deleting and adding columns.• Drop table for deleting a table.	<p>Lecture on the various topics.</p> <p>Solving queries on board.</p>	<p>Do worksheet based on the same.</p> <p>Practical question based on same.</p>

MONTH	TOPIC	SUB-TOPIC	METHODOLOGY	ACTIVITIES
April	MySQL (contd.)	<ul style="list-style-type: none"> • More queries of MySQL. 	Questions based on queries.	Do worksheet on the same.
	Concept of Database Transactions	<ul style="list-style-type: none"> • Concept of database transactions, committing, revoking a transaction using COMMIT and Rollback. 	Lecture on the various topics.	Do worksheet on the same
May	IT Applications	<ul style="list-style-type: none"> • Re-visiting e-governance, e-commerce and e-learning. 	Lecture on the various topics.	Prepare data on any one topic for project development.
	Java GUI Programming using JDBC for accessing MySQL database	<ul style="list-style-type: none"> • Connectivity of a Java GUI with MySQL database. 	<p>Demonstration. Lecture on the topic.</p> <p>Practical exercises based on the usage of connectivity.</p>	Assignment as worksheet on the same.

MONTH	TOPIC	SUB-TOPIC	METHODOLOGY	ACTIVITIES
May	Project Development	<ul style="list-style-type: none"> • Completion of project based on IT application, using appropriate controls for data entry, validation and display. • Back end database – exploring the requirement of tables. 	Practical in the lab to connect a Java GUI to a MySQL database.	Project Development
July	Java – Programming in Java	<ul style="list-style-type: none"> • Review of class XI. • Control Structures revised. 	Lecture on the topic and Learning the terminology. Practical exercises based on the usage of these controls.	Assignment as worksheet
August	Commonly used libraries	<ul style="list-style-type: none"> • String class and methods – to String(), concat(), length(), to Lower Case(), to UpperCase(), trim(), substring(). • Math object : Pow(), round(). 	Lecture on the topic. Practical exercises based on the usage of these methods. Demonstration.	Assignment as worksheet on the same.

MONTH	TOPIC	SUB-TOPIC	METHODOLOGY	ACTIVITIES
September	Revision for First Term Exam.		Class Test	
October	Web Application Development	<ul style="list-style-type: none"> • URL, Web Server, client server side. • HTML based web pages covering basic tags. • Creating and accessing static pages using HTML and introduction to XML (by example) 	Lecture on the topic and Learning the terminology.	Assignment as worksheet on the same.
November	Computer Networking	<ul style="list-style-type: none"> • Networking – a brief overview. • Network topologies used, types of network used – LAN, WAN, MAN Wired technologies – coaxial, Ethernet cable, optical fiber. 	Lecture on the topic and learning the terminology Presentation on networking.	Do worksheet on the same.

MONTH	TOPIC	SUB-TOPIC	METHODOLOGY	ACTIVITIES
November		<ul style="list-style-type: none"> • Wireless technologies used – Blue tooth, Infrared, Microwave, Radio Link, satellite link. • Network devices – Hub, Switch, Repeater, Gateway. • Network Security – denial of service, intrusion, snooping. 		
	Open Source Concepts	<ul style="list-style-type: none"> • Open source software, common open source standards, Unicode. 	Lecture on the topic and Learning the terminology. Presentation on OSS.	Assignment as worksheet on the same.
	Revision	<ul style="list-style-type: none"> • Revision and doubt clearing for Term II Exam. 	Practice questions in class.	Class Tests

PHYSICAL EDUCATION

Physical Education - Health Education by A.K. Uppal
Health and Physical Education - Saraswati Publication

MONTH	TOPIC	SUB TOPIC
April	<u>Part - A</u> 1. Physical Fitness and Wellness	<ul style="list-style-type: none"> • Meaning and importance of physical fitness and wellness. • Components of physical fitness and wellness. • Factors affecting physical fitness and wellness. • Principles of physical fitness development. • Means of fitness development – Aerobic and Anaerobic, Games and Sports, Yoga and Recreational Activities.
	<u>Part - B</u> Sub topics related to any one Game / Sport of choice of student out of : Basketball, Cricket, Football, Handball, Hockey, Kabaddi, Kho - Kho, Volleyball.	<ul style="list-style-type: none"> • History of the game / sport. • Latest general rules of the game / Sport. • Specifications of play fields and related sports equipments. • Important tournaments and venues. • Sports personalities. • Proper sports gear and its importance. • Fundamental skills of the game / sport. • Specific exercises of warm up conditions. • Related sports terminologies. • Sports awards. • Common sports injuries and its prevention. • SGFI sits organizational set-up.

MONTH	TOPIC	SUB TOPIC
May	2. Planning In Sports	<ul style="list-style-type: none"> • Fixtures – Knock Out, League, Seeding and Bye. • Intramurals and Extramurals. • Formation of Committees for Organizing Sports events. • Specific Sports Programmes – Health Runs, Run for Fun, Run for Unity, Run for Awareness, Run for Specific Causes.
	3. Sports Environment	<ul style="list-style-type: none"> • Meaning and Need for Sports Environment. • Essential elements of Positive Sports Environment. • Role of individual in improvement of sports environment for prevention of sports related accidents. • Role of spectators and media for creating positive sports environment.
July	4. Postures	<ul style="list-style-type: none"> • Meaning and concept of correct postures – Standing and sitting. • Advantages of correct posture. • Common postural deformities – Knock knee, flat foot, round shoulders, lordosis, kyphosis, bow legs and scoliosis. • Physical activities as corrective measures.

MONTH	TOPIC	SUB TOPIC
August	5. Yoga	<ul style="list-style-type: none"> • Meaning and importance of Yoga. • Yoga as an Indian Heritage. • Elements of Yoga. • Role of Yoga in Sports – Asanas, Pranayam and Meditation.
	6. Sports and Nutrition	<ul style="list-style-type: none"> • Balanced Diet • Components of Diet. • Role of Diet on Performance. • Elements of Diet.
September	7. Training Methods	<ul style="list-style-type: none"> • Meaning, concept and principles of training. • Methods of flexibility development. • Methods of strength development – isometric and isotonic. • Methods of Endurance development – Continuous method, Interval training and Fartlek. • Method of speed development. • Circuit Training.
October	8. Psychological Aspects of Physical Education	<ul style="list-style-type: none"> • Definition and importance of sports psychology. • Types and techniques of motivation. • Development characteristics of different stages of growth. • Adolescent problem and its management. • Ethics in Sports. • Anxiety and its management.

PSYCHOLOGY

Textbook for Class XII (NCERT)

MONTH	TOPIC	SUB TOPIC	PRACTICAL / ACTIVITY
March	1. Intelligence and Aptitude	<ul style="list-style-type: none"> • Individual differences • Theories • Culture and Intelligence 	Practical 1 : Intelligence Testing
April	1. Intelligence and Aptitude (Contd.) 2. Self and Personality	<ul style="list-style-type: none"> • Emotional intelligence • Aptitude : Nature, Types • Assessment of Psychological attributes • Self Concept • Self esteem, Self regulation • Culture and Self • Personality : Concept • Type and Trait approach 	Practical 2 : Aptitude Testing
May	2. Self and Personality (Contd.)	<ul style="list-style-type: none"> • Approaches to personality – Psychodynamic, humanistic, behavioural, cultural • Assessment of personality 	Practical 3 : Personality Testing Project : (a) Introduction to Case Profile

MONTH	TOPIC	SUB TOPIC	PRACTICAL / ACTIVITY
July	4. Psychological Disorders	<ul style="list-style-type: none"> • Concept of abnormality, psychological disorder • Causal factors • Classification of disorders • Major psychological disorders 	Project : (a) Contd. (b) Data Collection
	5. Therapeutic Approaches	<ul style="list-style-type: none"> • Nature and process of therapy • Therapeutic relationship • Types of therapies • Alternative therapies • Rehabilitation of mentally ill. • Counselling 	
August	3. Human Strengths and Meeting Life Challenges	<ul style="list-style-type: none"> • Life challenge and adjustment • Concept of adaptation • Human strengths and virtues • Coping with stress • Life-style, Health and well being 	Practical 4 : Adjustment Testing

MONTH	TOPIC	SUB TOPIC	PRACTICAL / ACTIVITY
August - September	6. Attitude and Social Cognition	<ul style="list-style-type: none"> • Attributions • Social Cognition • Schemas, Stereotypes • Impression formation • Nature / Components of attitudes • Attitude formation, change • Pro-social behaviour • Prejudice and discrimination 	Practical 5 : Attitude Testing
October	7. Social Influence and Group Processes	<ul style="list-style-type: none"> • Conformity, compliance, obedience • Cooperation, Competition • Groups : Nature, formation types • Influence of group on individual behaviour • Social identity • Inter - group conflict • Conflict resolution strategies 	Project : Contd. (c) Data Analysis

MONTH	TOPIC	SUB TOPIC	PRACTICAL / ACTIVITY
November	8. Environmental and Social Concerns	<ul style="list-style-type: none"> • Human Environment relationship • Noise, Pollution, Crowding, Natural disaster. • Aggression and Violence • Social Inequality and Poverty • Media and human values • Pro-environmental behaviour • Human rights • Citizenship • Peace 	
	9. Applied Psychology	<ul style="list-style-type: none"> • Application of Psychology <ul style="list-style-type: none"> – Sports – Education – Communication – Organisation 	Project : Contd. (d) Compilation of Case Profile

HOME-SCIENCE

A Text Book of Home Science by Puja Gupta, Ava Banerjee and Asha Das

MONTH	TOPIC	SUB TOPIC	PRACTICAL / ACTIVITY
April	Unit - I Know Little Children 1. Known Little – Some important aspects of their development	<ul style="list-style-type: none">Physical and motor – height, weight and body proportions, motor development during 0-3 months, 3-6 months, 6-9 months, 9-12 months and 1-2 years (Milestones only).Social and emotional developmentRecognition of people around.Socialization, expression of emotions.Cognitive development language development, learning through concrete operations and imitation.	<ul style="list-style-type: none">Observe a child in neighbourhood / at home for various milestones of physical and motor development and prepare a chart.
	2. Protection from Preventable Childhood Diseases	<ul style="list-style-type: none">Immunization – Concept and types (natural and acquired), breast feeding (one of the ways to develop natural immunity).	<ul style="list-style-type: none">Prepare a chart for immunization of a child.

MONTH	TOPIC	SUB TOPIC	PRACTICAL / ACTIVITY
May	3. Special needs of disadvantaged and disabled children - socially disadvantaged, physically handicapped (partially blind and deaf, affected / missing limb).	<ul style="list-style-type: none"> • Characteristics and needs 	
	4. Substitute care at home and outside.	<ul style="list-style-type: none"> • Siblings, grandparents neighbours, creche, daycare centre etc. • Integrated Child Developments Scheme (ICDS), Objectives and functions. 	<ul style="list-style-type: none"> • Interview 2-3 working mothers to find out their arrangement for children in their absence (0-4) yrs. Evaluate these.
July	Unit - II Nutrition for Self and Family 1. Planning Meals for the Family	<ul style="list-style-type: none"> • Meaning and importance of meal planning, principles and factors affecting meal planning, planning meals for the family. 	

MONTH	TOPIC	SUB TOPIC	PRACTICAL / ACTIVITY
July		<ul style="list-style-type: none"> Planning meals for family keeping in mind the needs of individual members including children, pregnant women lactating mothers, members suffering from fever or diarrhoea, role and preparation of ORS. 	<ul style="list-style-type: none"> Plan and prepare meals for the family and carry out modifications to suit individual needs including for persons suffering from fever or diarrhoea, for pregnant woman and lactating mothers.
August	2. Ways to ensure good health for the family	<ul style="list-style-type: none"> Using safe drinking water, importance of potable water for good health, qualities of safe drinking water. Household methods of making water safe for drinking. Safety against food adulteration and meaning of PFA. Common adulterants present in food and effects of some of these adulterants present in food. 	<ul style="list-style-type: none"> Preparation of oral dehydration solution. Simple test for checking adulteration in cereals, pulses (visual), milk and milk products, tea leaves, dhanian powder, haldi powder, black pepper (whole).
September	Revision and First Term Exams.		

MONTH	TOPIC	SUB TOPIC	PRACTICAL / ACTIVITY
October	Unit - III Money Management and Consumer Education <ol style="list-style-type: none"> 1. Family Income 2. Savings and investment 3. Consumer Protection and Education. 	<ul style="list-style-type: none"> • Various sources of family income, money income, real income direct and indirect, psychic income. • Supplementing family income • Meaning and importance of saving, ways / methods of investment – Banks, Post Office, LIC, UTI PPF, PF. • Basis for selection of methods. • Meaning, problems faced by consumer. Consumer Protection Act (1986) and services. • Consumer aids – labels, standard advertising guide books / leaflets, consumer redressal forum. 	<ul style="list-style-type: none"> • Open account. Find out and report how an account is opened in a bank / post office. Collect and fill forms. • Read labels of any household item. • Look for quality mark • Prepare one label having quality mark.
November	Unit - IV My Apparel <ol style="list-style-type: none"> 1. Clothing its relation to personality 	<ul style="list-style-type: none"> • Elements of line, colour, texture. • Elements of design. • Factors that influence the selection of clothes. • Selection and purchase of fabrics - purpose, quality, cost, season, reliable shop, quantity required. 	<ul style="list-style-type: none"> • Make samples of basic stitches and seams – running, hemming, blind stitch, interlocking fasteners - buttons and hooks patch. OR • Make an apron and incorporate all the above.

MONTH	TOPIC	SUB TOPIC	PRACTICAL / ACTIVITY
November	2. Ready made garment – quality and work-manship 3. Care of clothes	<ul style="list-style-type: none"> • Checking size and quality in ready made garment • Need and criteria. • General precautions and principles to be followed while removing of stains and washing; cleaning agents, soaps and detergents, storage of clothes. 	<ul style="list-style-type: none"> • Examine quality in ready-made garments. • Study the relative effect of temperatures of water on the process of cleaning clothes. • Removal of stains of tea, coffee, curry, grease, ink ball point ink, lipstick, blood. • Make a soap /detergent (liquid /powder / cake)
	Unit - V Things I can do with my home science training	<ul style="list-style-type: none"> • Applications of knowledge of home science in everyday life. • Usefulness of skill for supplementing family income. • Some gainful employment. • Further training required to make this field a career, various sources and facilities available for training. 	

FINE ARTS

Indian Panorma by R.C. Luthra

MONTH	TOPIC	SUB TOPIC
April	Theory : <ul style="list-style-type: none"> The Rajasthani and Pahari School of Miniature Painting The Pahari School 	<p><i>The Rajasthani School</i></p> <ul style="list-style-type: none"> Origin and development Sub Schools – Mewar, Bundi, Jodhpur, Bikaner, Kishangarh, and Jaipur Main features of the Rajasthani School Study of the following Rajasthani Paintings : <ul style="list-style-type: none"> (a) Maru Ragini (b) Raja Aniruddha Singh Heera (c) Chaugan Players (d) Krishna on Swing (e) Bharat meets Rama at Chitrakut <p><i>The Pahari School</i></p> <ul style="list-style-type: none"> Origin and development Sub Schools – Basohli and Kangra, Guler, Chamba and Garhwal Main features of the Pahari School Study of the following Pahari Paintings : <ul style="list-style-type: none"> (a) Krishna with Gopis (b) Nand, Yashoda and Krishna with Kinsmen going to Vrindavana (c) Bharat worshipping Charan Padukas of Rama (d) Cosmic Dance of Shiva (e) Radha and Krishna Looking into a Mirror

MONTH	TOPIC	SUB TOPIC
April - May	Practical : <ul style="list-style-type: none"> Still life and compositions 	<ul style="list-style-type: none"> Still life and compositions
July	Theory : <ul style="list-style-type: none"> The Mughal and Deccan School of Miniature Painting The Deccan School Practical : <ul style="list-style-type: none"> Still life and compositions 	<i>The Mughal School</i> <ul style="list-style-type: none"> Origin and development Main features of the Mughal School Study of the following Mughal Paintings : <ul style="list-style-type: none"> (a) Krishna lifting Mount Goverdhan (b) Jahangir holding the picture of Madona (c) Falcon on a bird-rest (d) Kabir and Raidas (e) Marriage procession of Dara Shikoh <i>The Deccan School</i> <ul style="list-style-type: none"> Origin and development Main features of the Deccan School Study of the following Deccan Paintings : <ul style="list-style-type: none"> (a) Dancers (b) Chand Bibi playing polo (c) Ragini Pathamsika (d) Sultan Abdulla Qutb-Shah (e) Hazrat Nizamuddin Aaliya and Amirkusru Still life and compositions

MONTH	TOPIC	SUB TOPIC
August	Theory : <ul style="list-style-type: none"> The Bengal School of Painting The Modern Trends in Indian Art Practical : <ul style="list-style-type: none"> Still life and compositions 	<ul style="list-style-type: none"> New era in Indian Art – An introduction Study of the following paintings : <ul style="list-style-type: none"> (a) Rama vanquishing the pride of the ocean Evolution of the Indian National Flag Origin and development of the Bengal School of Painting Main features of the Bengal School of Painting Contribution of Indian artists in the struggle for National freedom Movement Study of the following paintings of the Bengal School : <ul style="list-style-type: none"> (a) Journey's End (b) Tiller of the Soil (c) Rasalila (d) Radhika (e) Meghdoot Introduction Still life and compositions

MONTH	TOPIC	SUB TOPIC
September	Revision and I Term Exams.	
October	<p>Theory :</p> <ul style="list-style-type: none">• The Modern Trends in Indian Art (contd.) <p>Practical :</p> <ul style="list-style-type: none">• Still life and compositions	<p>Study of the following work of contemporary Indian Art :</p> <ul style="list-style-type: none">• Paintings : (a) Magician (b) Mother and Child (c) Three Girls (d) Mother Teresa (e) Gossip (f) Untitled• Graphic Prints : (a) Whirl pool (b) Children (c) Devi (d) Of Walls (e) Man, woman and tree• Sculpture (a) Triumph of Labour (b) Santhal family (c) Cries Un-heard (d) Ganesha (e) Chatturmukhi
November	<p>Practical :</p> <ul style="list-style-type: none">• Still life and compositions <p>Theory : Revision</p>	<ul style="list-style-type: none">• Still life and compositions
