

FATHER AGNEL SCHOOL, NOIDA
ACP 2017-18
CLASS XII

ENGLISH

MONTH	NO OF DAYS	PERIOD AVAILABLE	TOPICS/SUBTOPICS TO BE COVERED	PERIODS REQUIRED	WEIGHTAGE	ACTIVITIES/PROCESS	RESOURCES/ ICT	ASSESSMENT
MAR CH	18	18	1. THE LAST LESSON Introduction Theme Plot Characters Narrative Style	5	6 /3	1.Introduction 2. Reading 3. Explanation 4. Identifying new words and phrases. 5. Literary devices 6. Character analysis 7.Discussion on related social issues.	1.NCERT Book 2.Extramarks	1.Question/answers 2. Reading 3. explanation 4. Written test
			2. MY MOTHER AT SIXTY SIX Introduction Poet Background Poetic Devices Theme	4	4	1.Introduction 2.Silent and loud reading 3. Explanation 4.Identifying new words. 5.Literary devices 6. Explanation 7.Discussion on related contemporary issues.	1.Text book 2.Extramarks 3.Presentation	1.Question/Answers 2.Explanation 3.Written test(Reference to context)
			3. COMPREHENSION Narrative Factual Fictional	4	20	Unseen Passages to be given for practice	1.Extramarks 2.Sample papers.	Unseen passages to be given for assessment.
			4. NOTEMAKING AND	4	8	Unseen Passages to be given for	1.Extramarks	Unseen passages

			SUMMARIZATION Format Indentations Rules for summarization Marking Scheme			practice	ks 2.Sample papers.	to be given for assessment
APRIL	18	18	1.ELEMENTARY SCHOOL CLASSROOM IN A SLUM Introduction Poet Background Poetic Devices Theme Explanation	4	4	1.Introduction 2. Silent and loud Reading 3.Identifying new Words. 4.Poetic devices 4.Explanation 5. Question/ Answers	1.Text book 2.Extramarks 3.Presentation	1.Explanation 2. Written test(Reference to context & Question/answers
			2.LOST SPRING Introduction Author Background Setting Characters Plot Theme Summary	4	3/6	1.Introduction 2.Reading 3. Explanation 4. Identifying new words and phrases 5.Literary devices 6.Character Analysis 7.Discussion on related social issues	1.Text book 2.Extramarks	1.Question/answers 2.Reading 3.Explanation 4.Written test
			3.DEEP WATER Introduction Author Background Setting Characters Plot Theme Summary	4	3/6	1.Introduction 2.Reading 3.Explanation 4.Identifying new words and phrases 5.Literary Devices 6.Character analysis	1.Text book 2.Extramarks	1.Question/answers 2.Reading 3.Explanation 4.Written test
			4. TIGER KING Introduction Author Background	4	6/3	1.Introduction 2.Reading 3.Explanation 4.Identifying new words and phrases	1.Text book 2.Extramarks	1.Question/answers 2.Reading

			Setting Characters Plot Theme Summary 4. FORMAL LETTER Format Content Expressions	4		5.Literary Devices 6.Character analysis 1.Format <u>Teach them the structure.</u> # Address #Greeting # Appropriate style of language of the letter(Business or official) # Appropriate content # closure 2. Sample letter shown/dictated	ks Practice from Sample papers	3.Explanation 4.Written test Assignment 1.Format 2.Grammar and spelling 3.Creativity and ideas. 4. Coherence
MAY	14	14	1. THE ENEMY * Introduction *Author *Background *Setting *Characters *Theme *Plot *Summary 2. THE RATTRAP *Introduction *Author *Background *Characters *Theme *plot * summary 3. POSTERS * format * expressions * creativity * content	6	6 /3	1.Introduction 2. Reading 3. Explanation 4. Identifying new words and phrases. 5. Literary devices 6. Character analysis 7.Discussion on related social issues.	1.NCERT Book 2.Extramarks	1.Question/answers 2. Reading 3. explanation 4. Written test
				4	6/3	1.Introduction 2. Reading 3. Explanation 4.Identifying new words and phrases. 5.Literary devices 6. Character analysis 7. Discussion on related social issues.	1.Text book 2.Extramarks	1.Question/Answers 2.Reading 3.Explanation 4.Written test
				3	4	1.introduce format 2.Show them an example 3 .Use of language 4. Provide images and figures that will draw your audience in. 5.Short text pieces	1.Extramarks 2.Sample papers.	1.Content 2.Accuracy 3.Expressions 4.Graphics 5.Allignment 6.presentations

JULY 10 july MID SEM-1 ENGLISH	21	21	1.KEEPING QUIET *Introduction * Poet * Background * Poetic Devices * Theme * Explanation	5	4	1.Introduction 2. Silent and loud Reading 3.Identifying new Words. 4.Poetic devices 4.Explanation 5. Question/ Answers	1.Text book 2.Extramarks 3.Presentation	1.Explanation 2. Written test(Reference to context & Question/answers
			2.SHOULD WIZARD..... *Introduction *Author *Background * Setting * Characters *Plot *Theme *Summary	5	3/6	1.Introduction 2.Reading 3. Explanation 4. Identifying new words and phrases 5.Literary devices 6.Character Analysis 7.Discussion on related social issues	1.Text book 2.Extramarks	1.Question/answers 2.Reading 3.Explanation 4.Written test
			3.INDIGO *Introduction *Author *Background *Setting * Characters *Plot * Theme *Summary	5	3/6	1.Introduction 2.Reading 3.Explanation 4.Identifying new words and phrases 5.Literary Devices 6.Character analysis	1.Text book 2.Extramarks	1.Question/answers 2.Reading 3.Explanation 4.Written test
			4. FORMAL LETTER * Format *Content * Expressions *	6	6	1.Format <u>Teach them the structure.</u> # Address #Greeting # Style of the letter(Business or official) # What is the message # closure 2. Sample letter shown/dictated		Assignment 1.Format 2.Grammar and spelling 3.Creativity and ideas. 4. Coherence
			1.On The Face of it	4	6/3	1.Introduction	1.Textbook	1.Question/Answer

AUGUST	19	19	<ul style="list-style-type: none"> *Introduction *Background *Setting *Characters *Plot *Theme *Summary 	6	4	<ul style="list-style-type: none"> 2. Reading 3. Explanation 4. Identifying new words and phrases 5. Literary devices 6. Character Analysis 7. Discussion on related social issues. 	2. Extramarks	<ul style="list-style-type: none"> rs 2. Reading 3. Explanation 4. Written test 		
			<p>2.A Thing of Beauty</p> <ul style="list-style-type: none"> *Introduction *Poet *Background *Poetic devices *Theme *Explanation 			<ul style="list-style-type: none"> 1. Introduction 2. Silent & loud reading 3. Identifying new words 4. Literary devices 			<ul style="list-style-type: none"> 1. Textbook 2. Extramarks 3. Presentation 	<ul style="list-style-type: none"> 1. Question/Answers 2. Reading 3. Explanation 4. Written test
			<p>3. Invitations</p> <ul style="list-style-type: none"> *Format *Content *Expressions 			<ul style="list-style-type: none"> 1. Format 2. Show them an example 3. Use of language 4. Differentiate between formal & informal 5. How to reply 6. Use of third person 				<ul style="list-style-type: none"> Assignment 1. Format 2. Grammatical accuracy 3. Expressions 4. Content
			<p>4. Factual Description</p> <ul style="list-style-type: none"> *Format *Content * Expressions 	3	10	<ul style="list-style-type: none"> 1. Format 2. Show them an example 3. Introduction 4. Body 5. Closure 4. Use of language 5. Use of phrases and adjectives 	-	<ul style="list-style-type: none"> 1. Written test *Students will be marked on 1. Format 2. Content 3. Expressions 4. Grammatical accuracy 5. Creativity. 		
September	07	07	<ul style="list-style-type: none"> Advertisements Notice *Format 	8	4	<ul style="list-style-type: none"> Introduction Categories Value points Examples 	<ul style="list-style-type: none"> Extramarks Newspaper advertisements 	<ul style="list-style-type: none"> Assignments Worksheets 		

SEM-1			<ul style="list-style-type: none"> *content *Creativity *Expression *Language 					
October	16	16	Going Places <ul style="list-style-type: none"> *Introduction *Author *Background *Setting *Summary 	4	6/3	1.Introduction 2.Reading 3.Explanation 4.Identifying new words, phrases and literary devices 5.Discussion on related social issues.	1.Textbook 2.Extramarks	1. Written test Assignments/question/answers
			Evan Tries an o Level <ul style="list-style-type: none"> *Introduction *Author *Background *Setting *Summary 	5	6/3	1. Introduction 2. Reading 3. Explanation 4.Theme 5. Discussion on related social issues	1. Textbook 2.Extramarks	Assignments
			Job application <ul style="list-style-type: none"> *Format *Content *Expression 	3	6	1.Introduction 2. Format 3. Content	ks	
November			Article <ul style="list-style-type: none"> *Expected topics *Format *Content *Expression 	3	10	4.Creativity 5.Language/Expression 1.Introduction 2. Format 3. Content 4.Creativity 5.Language/Expression	Extramarks 1.Extramarks	Assignments Assignments
			Speech <ul style="list-style-type: none"> *Format *Content *Expression 	3	10	1.Introduction 2. Format 3. Content 4.Creativity 5.Language/Expression	---	Assignments

	22	22	<p>Aunt Jennifer,s Tigers</p> <p>*Introduction *Poet *Background *Setting *Summary *Poetic devices</p>	3	4/3	<p>1.Introduction 2. Silent and loud reading 3. Explanation 4.poetic devices 5.Discussion on the theme and related issues.</p>	<p>1,Textbook 2.Extramar ks</p>	<p>1.Assignments 2. written test</p>
<p>Nove mber (Sem- 2)</p>			<p>Memories of Childhood</p> <p>*Introduction *Author *Background *Setting *Summary</p>	4	6/4	<p>1.Introduction 2. Silent and loud reading 3. Explanation 4.Discussion on the theme and related issues</p>	<p>1.Textbook 2.Extramar ks</p>	<p>Assignments</p>

MATH

MONTH	NO. OF DAYS	TOPIC/SUBTOPICS TO BE COVERED	DAYS REQUIRED	ACTIVITIES/PROCESSES	RESOURCES/ICT	ASSESSMENT
March	18	Ch – 3 Matrices <ul style="list-style-type: none"> • Matrix • Types of matrices • Operation on matrices • Transpose of a matrix • Symmetric and skew – symmetric matrices • Elementary operations (transformation) of a matrix • Invertible matrices 	8	<ul style="list-style-type: none"> • Discussion • Lecture method • Illustrations through examples • Grilling through extra questions • NCERT exercises & assignments given for homework 	NCERT text book Reference books Educosoft Extramarks	Class test Mid Sem test-1 Semester 1 Preboard examination
		Ch – 4 Determinants <ul style="list-style-type: none"> • Determinant • Properties of determinants • Area of a triangle • Minors & Cofactor • Adjoint & Inverse of a matrix • Application of determinants and matrices 	10			
April	18	Ch-1 Relations & functions <ul style="list-style-type: none"> • Types of relations • Types of functions • Composition of functions & invertible functions • Binary operation 	10	<ul style="list-style-type: none"> • Discussion • Lecture method • Illustrations through examples • Grilling through extra questions • NCERT exercises & assignments given for homework 	NCERT text book Reference books Assignment booklet Educosoft Extramarks	Class test Mid Sem test-1 Semester 2 Preboard examination
		Ch – 2 Inverse Trigonometric Functions <ul style="list-style-type: none"> • Basic concepts • Properties of inverse trigonometric functions 	8			

May	14	Ch – 5 Continuity & Differentiability	10	<ul style="list-style-type: none"> • Discussion • Lecture method • Illustrations through examples • Grilling through extra questions • NCERT exercises & assignments given for homework 	NCERT text book Reference books Assignment booklet Educosoft Extramarks	Class test Semester 1 Preboard examination
		<ul style="list-style-type: none"> • Continuity • Differentiability • Exponential and logarithmic functions • Logarithmic differentiation • Derivative of functions in parametric forms • Second order derivative • Mean value theorem 	4			
July	21	Ch – 6 Application of derivatives	10	<ul style="list-style-type: none"> • Discussion • Lecture method • Illustrations through examples • Grilling through extra questions • NCERT exercises & assignments given for homework 	NCERT text book Reference books Assignment booklet Educosoft Extramarks	Class test Semester 1 Semester 2 Preboard examination
		<ul style="list-style-type: none"> • Rate of change of quantities • Approximations 	11			
August	20	Ch - 7 Integrals	7	<ul style="list-style-type: none"> • Discussion • Lecture method • Illustrations through examples • Grilling through extra questions • NCERT exercises & assignments given for homework 	NCERT text book Reference books Assignment booklet Educosoft Extramarks	Class test Semester 1 Semester 2 Preboard examination
		(continued) <ul style="list-style-type: none"> • Integrals of some particular functions • Integration by partial fraction • Integration by parts • Definite integral • Fundamental theorem of Calculus • Evaluation of definite integrals by substitution • Some properties of definite integrals 	5			
		Ch – 8 Application of Integrals	8			
		Ch – 9 Differential Equations				
		<ul style="list-style-type: none"> • Basic concepts 				

	formulation <ul style="list-style-type: none"> • Different types of linear programming problems Ch - 13 Probability <ul style="list-style-type: none"> • Conditional probability • Multiplication theorem of probability • Independent events • Baye's theorem • Random variable and its probability distribution • Bernoulli's trials and Binomial Distribution. Revision for semester examination.	10	questions <ul style="list-style-type: none"> • NCERT exercises & assignments given for homework 	booklet Educsoft Extramarks	
December					Semester 2 Exams
January					Preboard examination

PHYSICS

MONTH	NO OF DAYS	PERIOD AVAILABLE	TOPICS/SUBTOPICS TO BE COVERED	PERIODS REQUIRED	ACTIVITIES	PROCESS	RESOURCES / ICT	ASSESSMENT
March	18	19	<p>Unit I : Electric Charges and Field Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and 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 uniform electric field. Electric flux, statement 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). Electrostatic Potential and Capacitance: 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 dipole in an electrostatic field.</p>	13	1.To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material.	Introduction-giving specific example of the chapter's content	1 Smart board	1.Assignments 2.Class test 3. Mid Sem 1 & 2 4. sem 1 & 2
April	18	21	Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and	6		Deriving important relations.	2 Extra marks module	

			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.				
			<p>Unit II: Current Electricity Electric current, flow of electric charges in a metallic conductor, drift velocity, 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. 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. Kirchhoff's laws and simple applications. Wheatstone bridge, metre bridge. Potentiometer - principle and its applications to measure potential difference and for comparing emf of two cells; measurement of internal resistance of a cell.</p>	16	<p>2. To determine resistance per cm of a given wire by plotting a graph of potential difference versus current. 3. To verify the laws of combination (series/parallel) of resistances using a metre bridge.</p>	Discussion questions that probe and extend the student's conceptual understanding.	Student self-assessments and peer assessments
May	14	15	<p>Unit III: Magnetic Effects of Current and Magnetism 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</p>	15	<p>4. To compare the emf of two given primary cells using potentiometer. 5. To determine the internal resistance of given primary cell using potentiometer.</p>	Solving numerical using different problem solving strategies.	Tests (Mid-Semester, Sem-I, Sem-II and Pre Board Exam)

			magnetic and electric fields. Cyclotron. Force on a current-carrying conductor in a uniform magnetic field.					
July	21	25	Force between two parallel current-carrying conductors-definition of ampere. Torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.	5	A1-To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source. A2-To study the variation in potential drop with length of a wire for a steady current.			
			Unit IV: Electromagnetic Induction and Alternating Currents Electromagnetic induction; Faraday's laws, induced emf and current; Lenz's Law, Eddy currents. Self and mutual induction. Alternating currents, peak and rms value of alternating current/voltage; reactance and impedance.	25	6. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. 7. To find the frequency of the a.c. mains with a sonometer. 8. To find the value of v for different values of u in case of a concave mirror and to find the focal length.			Projects and presentations
August	20	24	Unit IV: Alternating Currents LC oscillations (qualitative treatment only), LCR series circuit, resonance; power in AC circuits, wattless current. AC generator and transformer. Unit VI: Optics Reflection of light, spherical mirrors, mirror formula.	24	9. To find the focal length of a convex mirror, using a convex lens. 10. To determine angle of minimum deviation for a given prism by			

			Refraction of light, total internal reflection and its applications, optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lens-maker's formula. 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 sky and reddish appearance of the sun at sunrise and sunset. Optical instruments - Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.		plotting a graph between angle of incidence and angle of deviation.			
Sept	8	9	Revision . Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light.	8				
Oct.	17	20	Diffraction due to a single slit, width of central maximum. Resolving power of microscopes and astronomical telescopes. Polarisation, plane polarised light Brewster's law, uses of plane polarised light and Polaroids.	5				
			Unit VII: Dual Nature of Matter and Radiation Dual nature of radiation. Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature	5	11.To determine refractive index of a glass slab using a travelling microscope. 12.To find the focal			

			of light. Matter waves-wave nature of particles, de Broglie relation. Davisson-Germer experiment (experimental details should be omitted; only conclusion should be explained).		length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.			
			Unit VIII: Atoms & Nuclei 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, nuclear fusion.	10				
Nov.	18	22	Unit IX: Electronic Devices Energy bands in solids (Qualitative ideas only) conductors, insulator and semiconductors; 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) .basic idea of analog and digital signal. Logic gates (OR, AND, NOT, NAND and NOR).	12	13. To draw the I-V characteristic curve of a p-n junction in forward bias and reverse bias.			
			Unit X: Communication Systems Elements of a communication system (block diagram only); bandwidth of	6	14. To draw the characteristic curve of a zener diode			

		<p>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, amplitude-modulation and frequency modulation. Advantages of frequency modulation over amplitude modulation. Basic ideas about internet, mobile telephony and global positioning system(GPS)</p>		<p>and to determine its reverse breakdown voltage.15. To study the characteristic of a common - emitter npn or pnp transistor and to find out the values of current and voltage gains.</p>			
		<p>Unit V: Electromagnetic waves 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.</p>	3	<p>A3-To study effect of intensity of light (by varying distance of the source) on an L.D.R. A4-To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab. - A5-To identify a diode, an LED, a transistor, and IC, a resistor and a capacitor from mixed collection of such items.</p>			

CHEMISTRY

MONTH	NO. OF DAYS	PERIOD AVAILABLE	TOPIC/ SUBTOPICS TO BE COVERED	PERIODS REQUIRED	WEIGHTAGE	ACTIVITIES/ PROCESSES	RESOURCES/ ICT	ASSESSMENT
March	18	19	Haloalkanes and Haloarenes: Classification, Nomenclature, Nature of C-X bond, Methods of preparation, Physical properties, Chemical reactions, Polyhalogen compounds	10	3	<ul style="list-style-type: none"> Lecture Method Discussion on various topics 	PPTs, Softwares like Extramarks	Oral Test Class test
			Alcohols, Phenols and Ethers: Classification, Nomenclature, Structures of Functional Groups, Alcohols, Phenols and Ethers – their Physical and Chemical Properties, Some Commercially important Alcohols	10	4	<ul style="list-style-type: none"> Lecture Method Discussion on various topics Detection of Alcoholic and Phenolic Functional group Test to distinguish alcohol and phenol	PPTs, Softwares like Extramarks Chemistry Lab – various apparatus and chemicals for detection of functional group	Oral Test Class test Practical test
April	18	21	Alcohols, Phenols and Ethers: Continued Solutions: Types of Solutions, Expressing concentration of Solutions, Solubility, Vapour pressure of liquid solutions, Raoult's Law, Ideal and non-ideal Solutions, Colligative properties and determination of Molar Mass, Abnormal Molar Masses, van't Hoff factor	10	5	Lecture cum interactive Method Numerical Solving To compare the Elevation in Boiling point by addition of Sugar and Salt To compare the Elevation in Boiling point by addition of different Electrolytes To determine the molarity and strength of KMnO ₄ by titrating it with : (1) Mohr's Salt solution (2) Oxalic Acid	Software like Extramarks Chemistry Lab – various apparatus and chemicals for performing activity	Oral Test Class test
May	14	15	Solid State: General characteristics of Solid State, Amorphous and Crystalline Solids, Classification of Crystalline Solids, Crystal Lattice and Unit Cells, Number of atoms in a Unit Cell, Close Packed Structures, Packing	10	4	<ul style="list-style-type: none"> Lecture Method Discussion on various topics Numerical Solving Model formation of Close		Oral Test Class test

			Efficiency, Calculations involving Unit Cell Dimensions, Imperfections in Solids, Electrical Properties, Magnetic Properties			packing in three dimensions Preparation of Mohr's Salt crystals		
			Aldehydes, Ketones and Carboxylic Acids: Nomenclature and Structure of Carbonyl Group, Preparation of Aldehydes and Ketones, Physical Properties, Chemical Reactions, Uses of Aldehydes and Ketones, Nomenclature and structure of Carboxylic Group, Methods of preparation of Carboxylic Acids, Physical properties, Chemical Reactions, Uses of Carboxylic Acids	10	6	Lecture cum interactive Method Identify Functional Group- Aldehydes, Ketones and Carboxylic Acid Test to distinguish between Aldehydes and Ketones	PPTs, Softwares like Extramarks Softwares like Extramarks Software like Extramarks Chemistry Lab – various apparatus and chemicals for detection of functional group	Oral Test Class test Practical test
July	21	25	Aldehydes, Ketones and Carboxylic Acids: Continued Amines: Structure of Amines, Classification, Nomenclature, Preparation of Amines, Physical Properties, Chemical Reactions, Method Of Preparation of Diazonium Salts, Physical Properties, Chemical Reactions, Importance of Diazonium Salts in Synthesis Of Aromatic Compounds	10	4	Lecture cum interactive Method Identify Functional Group- Amines(Carbylamine reaction)	Software like Extramarks Chemistry Lab – various apparatus and chemicals for detection of functional group	Oral Test Class test Practical test
			Electrochemistry: Electrochemical Cells, Galvanic Cells, Nernst Equation, Conductance of Electrolytic Solutions, Electrolytic Cells and Electrolysis, Batteries, Fuel Cells and Corrosion	10	5	Lecture cum interactive Method Numerical Solving To observe effect of change of concentration on emf of a Galvanic cell To observe the effect of change of concentration on Molar conductivity of electrolytes	Software like Extramarks Chemistry Lab – various apparatus and chemicals for performing activity	Oral Test Class test
August	20	24	Chemical Kinetics: Rate of a Chemical Reaction, Factors influencing Rate of a reaction, Integrated Rate Equations, Pseudo First Order	10	5	Lecture cum interactive Method Numerical Solving	Software like Extramarks Chemistry Lab	Oral Test Class test

			Reaction, Temperature Dependence of the Rate of a Reaction, Collision Theory of Chemical Reactions			To observe the effect of change of concentration of a reactant on the rate of a chemical reaction	– various apparatus and chemicals for performing activity	
			Biomolecules: Carbohydrates: Classification- Aldoses and Ketoses, Monosaccharides, Oligosaccharides and Polysaccharides, Importance of carbohydrates, Proteins: α -Amino acids, Peptide bond and polypeptides, Structure of Proteins, Denaturation of Proteins, Enzymes, Vitamins- Classification and functions, Nucleic Acids(DNA and RNA)	12	4	Lecture cum interactive Method Analysis of various food stuffs to find the presence of carbohydrates, Fats and Proteins	Software like Extramarks Chemistry Lab – various apparatus and chemicals for performing activity	Oral Test Class test
			Polymers: Classification of Polymers, Types of Polymerisation, Molecular mass of Polymers, Biodegradable Polymers, Polymers of Commercial Importance	8	3	Lecture cum interactive method	Extramarks	Oral Test Class test
			Chemistry in Everyday Life: Drugs and their Classification, Drug-Target Interaction, Therapeutic Action of Different Classes of Drugs, Chemicals in food, Cleansing Agents	8	3	Lecture cum interactive method	Extramarks	Oral Test Class Test
September	8	9	Surface Chemistry: Adsorption- Types of adsorption, Factors affecting adsorption of Gases on Solids, Catalysis, Colloids, Classification of Colloids, Emulsions, Colloids around us	8	4	Lecture cum interactive method To prepare colloids of various types(Lyophilic, Lyophobic)	Extramarks Chemistry Lab – various apparatus and chemicals for performing activity	Oral Test Class Test
October	17	20	d & f- Block Elements: position in the Periodic Table, Electronic configuration of the d block Elements, General Properties of the Transition Elements, The Lanthanoids, The Actinoids, Some applications of d & f block Elements	12	5	Lecture cum interactive method To Study oxidising character of KMnO_4 in acidic Medium	Extramarks Chemistry Lab – various apparatus and chemicals for performing activity	Oral Test Class Test
			Coordination Compounds: Werner's Theory of coordination Compounds, Definition of Some Important Terms pertaining to Coordination	12	3	Lecture cum interactive method	Extramarks	Oral Test Class Test

			Compounds, Nomenclature of Coordination Compounds, Isomerism in Coordination Compounds, Bonding in Coordination Compounds, Stability of Coordination Compounds, Importance and Applications Of Coordination Compounds					
November	18	22	<p>The p- Block Elements: Group 15 Elements, Dinitrogen, Ammonia, Oxides of Nitrogen, Nitric Acid, Phosphorus – Allotropic Forms, Phosphine, Phosphorus Halides, Oxoacids of Phosphorus</p> <p>Group 16 Elements: Dioxygen, Simple Oxides, Ozone, Sulphur Dioxides, Oxoacids of sulphur, Sulphuric Acid</p> <p>Group 17 Elements: Chlorine, Hydrogen Chloride, Oxoacids of Halogens, Interhalogen Compounds</p> <p>Group 18 Elements</p>	12	8	Lecture cum interactive method Ring Test for Nitrate ion Test for Chloride like MnO_2 Test	Software like Extramarks Chemistry Lab – various apparatus and chemicals for performing activity	Oral Test Class Test
			<p>General Principles and Processes of Isolation of Elements: Occurrence of Metals, Concentration of Ores, Extraction of Crude Metal from concentrated Ore, Thermodynamic Principles of Metallurgy, Electrochemical Principles of Metallurgy, Oxidation Reduction, Refining, Uses of Aluminium, Copper, Zinc and Iron</p>	8	3	Lecture cum interactive method	Software like Extramarks	Oral Test Class Test

BIOLOGY

Month	No. of days	Period s available	Topics/sub topics to be covered	Periods required	Activities/processes	Resources/ICT	assessment
March	18	24	<p>Chapter 1-Reproduction in organism. Methods of asexual reproduction Events in sexual reproduction.</p> <p>Chapter 2-Sexual reproduction in flowering plants. Structure of flower, pre and post fertilization events, double fertilization, Apomixis and polyembryony.</p> <p>Chapter 3- Human reproduction Structure and function of male and female reproductive system, gametogenesis</p>	<p>4</p> <p>14</p> <p>6</p>	<p>To Study reproductive parts of a flower.</p> <p>Study of flowers adapted to pollination by different agencies.</p> <p>Study of pollen germination on slide.</p> <p>Study of pollen tube growth on stigma.</p> <p>To study and identify stages of gamete development in T.S testis and T.S ovary.</p>	<p>Educational software- Extramarks, NCERT textbook, reference books, question bank.</p> <p>Specimen of different flowers. Pollen grains of different flowers, slides, brush, coverslips, nutrient solution, stigmas of different flowers. Permanent slides of T.S Ovary and testis.</p>	<p>Assignments, class tests.</p>
April	18	25	<p>Chapter-3(contd) menstrual cycle ,fertilization and implantation pregnancy and embryonic development, parturition and lactation.</p> <p>Chapter-4 Reproductive health Problems and strategies, population explosion and birth control.</p> <p>Chapter 13- Organisms and populations. Biotic and abiotic factors, adaptations in plants and animals, population growth, population interactions.</p>	<p>10</p> <p>5</p> <p>10</p>	<p>Study of mitosis in onion root tips.</p> <p>Study of meiosis in onion bud cells and grasshopper testis. Study of T.S.of blastula through permanent slide.</p> <p>Collect soil from different sites and study them for texture, moisture content and pH and correlate with the kinds of plants found in them.</p>	<p>Extramarks.</p> <p>Onion root tips ,acetocarmine,slides etc. Permanent slides of various stages of meiosis and T.S. of blastula.</p> <p>Different samples of soil, meshes of different size, beakers ,funnels, necessary chemicals. Specimen of hydrophytes and xerophytes.</p> <p>Metre scale,thread,nails.</p>	<p>Unit test, class tests.</p>

					To study plants and animals found in dry and aquatic conditions and comment on their adaptations. To study plant population density and frequency by quadrat method.		
May	14	18	Chapter 14-Ecosystem –structure and function. Productivity, decomposition, energy flow, ecological pyramids, ecological succession, nutrient cycling, ecosystem services. ecological succession, nutrient cycling, ecosystem services. Chapter 15- Biodiversity and conservation. Levels of diversity, patterns of diversity, loss of biodiversity, measures of conservation.	10 8	Collect water from any water bodies and study them for pH , clarity and presence of living organisms. To study the amount of suspended particulate matter in air at two widely separated sites.	Educational software- Extramarks, NCERT textbook, reference books, question bank. Different water samples and necessary chemicals. Slides, glycerine,brush.	Class tests, oral tests.
July	21	29	Chapter 16- Environmental issues. Air, water and land pollution, green house effect, ozone depletion, deforestation. Chapter 5- principles of inheritance and variation. Mendel’s laws of inheritance,inheritance of one gene ,inheritance if two genes, mechanism of sex determination, pedigree analysis, Mendelian disorder Chapter 6-Molecular basis of inheritance. Structure and properties of DNA and RNA. DNA replication, transcription ,translation.	5 13 11	To study the effect of different temperatures and three different pH on activity of salivary amylase on starch. Study of Mendelian inheritance using seeds of different colors/size of any plant.	Educational software- Extramarks, NCERT textbook, reference books, question bank. Cavity tiles, iodine, starch, sodium hydroxide solution, test tubes. Seeds of pea plant.	Class tests, unit test.
August	20	29	Chapter 6-Molecular basis of inheritance.(contd) Gene expression and regulation, DNA fingerprinting and human genome project.	10	To study prepared pedigree charts for genetic traits such as rolling of tongue, blood groups, ear lobes, widow’s	Educational software- Extramarks, NCERT textbook, reference books, question bank.	Class test, home assignments.

			Chapter 7-Evolution Origin of life- theories, evidences and mechanism of evolution.	13	peak and colour blindness. Study of homologous and analogous organs in various plants and animals.	Pedigree charts. Specimen of plants(<i>Passiflora, Bougainvillea</i>) Animas(bird,insect,bat,frog)	
September	8	8	Revision				Semester I- examination
October	17	22	Chapter 11- Biotechnology-principle and processes. Tools and steps of genetic engineering.	12		Educational software- Extramarks, NCERT textbook, reference books, question bank.	Class tests, assignments.
			Chapter 12- Biotechnology and its applications. Application in agriculture and medicine, transgenic animals and ethical issues.	10	Isolation of DNA from available plant material such as spinach, green pea seeds, papaya etc.	Plant material and necessary chemicals, pestle and mortar, cheese cloth, ice cube.	
November	22	30	Chapter 8- Human health and disease. Infectious and non-infectious diseases, basic concepts of immunology, vaccines causes and treatment of AIDS ,cancer. Use and abuse of drugs and alcohol.	16		Educational software- Extramarks, NCERT textbook, reference books, question bank.	Class tests, assignments.
			Chapter 9- Strategies for enhancement in food production. Elements of animal husbandry, methods and applications of plant breeding, SCP, tissue culture.	8	To identify common disease causing organism like <i>Ascaris, Entamoeba, Plasmodium</i> and ringworm through permanent slides or specimen. Comment on the symptoms of diseases they cause.	Permanent slides of <i>Entamoeba, Plasmodium, ringworm</i> . Specimen of <i>Ascaris</i> .	
			Chapter 10-Microbes in human welfare. Microbes in household food processing, industrial production, sewage treatment and energy generation.	6	Exercise on controlled pollination, emasculation, tagging and bagging.	Pea plants, forceps, brush, polythene bag.	

COMPUTER SCIENCE

MONTH	NO. OF DAYS	PERIODS AVAILABLE	TOPICS/SUB TOPICS TO BE COVERED	PERIOD REQ	WEIGHTAGE	ACTIVITIES / PROCESS	RESOURCES / ICT	ASSESSMENT
MARCH	15	13	<p>REVISION OF CLASS XI STRUCTURES</p> <ul style="list-style-type: none"> ➤ Syntax ➤ Declaration ➤ Initialization ➤ Arrays in structures ➤ Arrays of structures <p>Functions and structures</p> <pre>#include<iomanip.h></pre> <ul style="list-style-type: none"> ➤ Setw() ➤ Setprecision() <pre>#include<stdlib.h></pre> <ul style="list-style-type: none"> ➤ Randomize() ➤ Random() <p>OBJECT ORIENTED PROGRAMMING procedural programming v/s oops</p> <p>OOP Concept</p> <ul style="list-style-type: none"> ➤ Polymorphism ➤ Data Abstraction ➤ Encapsulation ➤ Modularity ➤ Inheritance <p>Implementation of OOP concepts in c++</p> <p>FUNCTION OVERLOADING</p> <ul style="list-style-type: none"> ➤ Need for function overloading 	7	7	<ul style="list-style-type: none"> • Illustrations through examples • Lecture Method • Discussions of new topics & real life situations • Explanation of different types of questions. • Sumita arora questions are done/given as CW & HW. • OUTPUT QUESTIONS • ERROR QUESTIONS • PROGRAMS ➤ Overload area function for square, circle and rectangle ➤ Overload perimeter function for square and rectangle ➤ Overload volume function for cube, cuboid and sphere 	<ul style="list-style-type: none"> • Sumita arora Text Book • Reference Books • Educational software like Extramarks 	<ul style="list-style-type: none"> • Class Test • Registers of CW & HW • Activity done in the class

			<ul style="list-style-type: none"> ➤ Declaration and definition ➤ Restrictions on function overloading ➤ Calling overloaded functions ➤ Step involved in finding the best match ➤ default arguments v/s overloading ➤ Ambiguous function calls 					
APRIL	18	24	<p>CLASSES AND OBJECTS</p> <p>CLASSES</p> <ul style="list-style-type: none"> ➤ Need for classes ➤ Declaration of classes ➤ Referencing class members ➤ Arrays within classes ➤ Scope of class and its members ➤ Types of class functions ➤ Nested classes <p>Data hiding and Encapsulation</p> <p>Functions in a class</p> <ul style="list-style-type: none"> ➤ Inline functions ➤ Constant member functions ➤ Nesting of member functions ➤ Scope resolution operator :: <p>Using OBJECTS</p> <ul style="list-style-type: none"> ➤ Memory allocation of objects ➤ Array of objects ➤ Objects as function arguments ➤ Function returning objects <p>Static class members</p> <p>CONSTRUCTORS AND DESTRUCTORS</p> <ul style="list-style-type: none"> ➤ Need for constructors ➤ Declarations and definition ➤ Default constructors 	15	4	<ul style="list-style-type: none"> • Illustrations through examples • Lecture Method • Discussions of new topics & real life situations • Explanation of different types of questions. • Sumita arora questions are done/given as CW & HW. • PROGRAMS <ul style="list-style-type: none"> ➤ Define class flight ➤ Define class train ➤ Define class applicant ➤ Define class testmatch ➤ Define class resort 	<ul style="list-style-type: none"> • Sumita arora Text Book • Reference Books • Educational software like Extramarks 	<ul style="list-style-type: none"> • Class Test • Registers of CW & HW • Activity done in the class
				9	2			

			<ul style="list-style-type: none"> ➤ Parameterized constructors ➤ Significance of default constructor ➤ Invocation of constructors ➤ Copy constructor ➤ Order of constructor invocation ➤ Dynamic initialization of objects ➤ Constructor overloading ➤ Special characteristics of constructors <p>DESTRUCTOR</p> <ul style="list-style-type: none"> ➤ Need for destructors ➤ Declaration and Definition ➤ Characteristics of destructors <p>Constructor V/S Destructor</p>					
MAY	15	15	<p>INHERITANCE: EXTENDING CLASSES</p> <p>Need for inheritance Different forms of inheritance Derived and Base classes</p> <ul style="list-style-type: none"> ➤ Single inheritance ➤ Multilevel inheritance ➤ Multiple inheritance ➤ Hierarchal inheritance ➤ Hybrid inheritance <p>Visibility modes</p> <ul style="list-style-type: none"> ➤ Private ➤ Public ➤ Protected <p>Inheritance and access controls</p> <ul style="list-style-type: none"> ➤ Access control in Publicly derived class ➤ Access control in Privately derived class ➤ Access control in Protected derived class 	15	4	<ul style="list-style-type: none"> • Illustrations through examples • Lecture Method • Discussions of new topics & real life situations • Explanation of different types of questions. • Sumita arora questions are done/given as CW & HW. • INHERITANCE QUESTIONS (4 MARKS) 	<ul style="list-style-type: none"> • Sumita arora Text Book • Reference Books • Educational software like Extramarks 	<ul style="list-style-type: none"> • Class Test • Registers of CW & HW • Activity done in the class

			<ul style="list-style-type: none"> ➤ Facts about inheritance ➤ Making a private member inheritable ➤ Shadowing/Overriding base class functions in derived class <p>Constructors in multiple inheritance</p> <p>Virtual base class</p> <ul style="list-style-type: none"> ➤ Is-a Relationship ➤ Has-a Relationship 					
JULY	23	28	<p>ARRAYS</p> <p>Implementation of arrays</p> <ul style="list-style-type: none"> ➤ Row major ➤ Column major <p>Sorting techniques</p> <ul style="list-style-type: none"> ➤ Selection sort ➤ Bubble sort ➤ Insertion sort <p>Searching techniques</p> <ul style="list-style-type: none"> ➤ Linear search ➤ Binary search <p>DATA FILE HANDLING #include<fstream.h></p> <p>Data files</p> <p>Types of data files</p> <ul style="list-style-type: none"> ➤ text files ➤ binary files <p>Opening and closing files</p> <ul style="list-style-type: none"> ➤ Opening files using constructor ➤ Opening file using open() function ➤ Closing a file 	7	9	<ul style="list-style-type: none"> • Illustrations through examples • Lecture Method • Discussions of new topics & real life situations • Explanation of different types of questions. • Sumita arora questions are done/given as CW & HW. • Find base address • Find address of particular array element • Sort structure employee using bubble sort • Sort an array using selection sort • Sort array using insertion sort • Search an employee from an array of 10 employees • Binary search on array 	<ul style="list-style-type: none"> • Sumita arora Text Book • Reference Books • Educational software like Extramarks 	<ul style="list-style-type: none"> • Class Test • Registers of CW & HW • Activity done in the class
				20	6			

		<p>File Open modes</p> <ul style="list-style-type: none"> ➤ ios::in ➤ ios::out ➤ ios::ate ➤ ios::app ➤ ios::trunc ➤ ios::nocreate ➤ ios::noreplace ➤ ios::binary <p>Steps to process a file in your program</p> <p>Changing the behaviour of streams</p> <p>Sequential I/O with files</p> <ul style="list-style-type: none"> ➤ get() ➤ getline() ➤ put() ➤ read() ➤ write() <p>Reading and writing class objects</p> <p>Detecting EOF</p> <p>File pointers and random access</p> <ul style="list-style-type: none"> ➤ seekg() ➤ seekp() ➤ ios::cur ➤ ios::end ➤ ios::beg ➤ tellg() ➤ tellp() <p>Basic operations on Binary files</p> <ul style="list-style-type: none"> ➤ Searching ➤ Appending Data ➤ Inserting data in sorted files ➤ Deleting a file ➤ Modifying data 		<p>of 10 elements</p> <ul style="list-style-type: none"> • Count no. Of vowels, words, spaces etc from text file • Count no. of words starting from uppercase from a text file. • Count no. of lines • Convert lowercase to uppercase alphabets in text file. • Searching and displaying on binary files 		
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			<p>Error Handling during file I/O</p> <ul style="list-style-type: none"> ➤ bad() ➤ eof() ➤ fail() ➤ good() ➤ clear() 					
AUGUST	22	29	<p>POINTERS</p> <p>c++ Memory map Dynamic Allocation of memory Static Allocation of memory</p> <p>Free store</p> <p>Declaration and initialization of pointers Pointer arithmetic</p> <p>Dynamic allocation operators</p> <ul style="list-style-type: none"> ➤ new ➤ delete ➤ Memory leaks <p>Pointers and arrays</p> <ul style="list-style-type: none"> ➤ Array of pointers <p>Pointer and consts</p> <p>Pointers and functions</p> <ul style="list-style-type: none"> ➤ Invoking functions by passing the reference ➤ Invoking functions by passing the pointers ➤ Functions returning reference ➤ Functions returning Pointer <p>Pointers and structures</p> <ul style="list-style-type: none"> ➤ Declaration and use of Structure pointers ➤ Arrow operator 	10	2	<ul style="list-style-type: none"> • Illustrations through examples • Lecture Method • Discussions of new topics & real life situations • Explanation of different types of questions. • Sumita arora questions are done/given as CW & HW. ➤ Output and error questions ➤ Implement stack as array ➤ Implement stack as linked list ➤ Implement queue as array ➤ Implement queue as linked list ➤ Implement circular queue as array ➤ Infix to postfix question ➤ Evaluation of postfix 	<ul style="list-style-type: none"> • Sumita arora Text Book • Reference Books • Educational software like Extramarks 	<ul style="list-style-type: none"> • Class Test • Registers of CW & HW • Activity done in the class

			<ul style="list-style-type: none"> ➤ Self referential structures ➤ Dynamic Structures <p>Pointers and objects</p> <ul style="list-style-type: none"> ➤ Declaration and use ➤ This pointer <p>LINKED LIST Need of linked list Memory allocation (dynamic v/s static)</p> <p>Single linked lists</p> <ul style="list-style-type: none"> ➤ Representation of linked list in memory ➤ Operations on linked list ✓ Insertion of new node in beginning ✓ Insertion of new node at end ✓ deletion of a node from beginning <p>STACK</p> <ul style="list-style-type: none"> ➤ As array ➤ As linked list <p>APPLICATION OF STACKS</p> <ul style="list-style-type: none"> ➤ Infix to post fix ➤ Evaluation of post fix expression <p>QUEUE</p> <ul style="list-style-type: none"> ➤ As array ➤ As linked list <p>CIRCULAR QUEUE</p> <ul style="list-style-type: none"> ➤ As array 	20	6			
SEPTEMBER	9	10	REVISION FOR SA1			<ul style="list-style-type: none"> • Chapter wise revision • Sample Question paper discussion 	<ul style="list-style-type: none"> • Sumita arora Text Book • Reference Books • Educational software like Extramarks 	

OCTOBER	19	19	<p>DATABASE MANAGEMENT SYSTEM</p> <p>Purpose of database</p> <ul style="list-style-type: none"> ➤ Database abstraction ➤ Levels of database implementation <p>Data independence</p> <p>Data models</p> <ul style="list-style-type: none"> ➤ Relational data model ➤ Network data model ➤ Hierarchical data model <p>Relational model</p> <ul style="list-style-type: none"> ➤ Terminology ➤ Views ➤ Structure of RDBMS ➤ Relational algebra <p>SQL: STRUCTURED QUERY LANGUAGE</p> <p>Data definition language</p> <p>Data manipulation language</p> <p>SQL processing</p> <ul style="list-style-type: none"> ➤ Concept of data types <ul style="list-style-type: none"> ✓ Char ✓ Decimal ✓ Numeric ✓ Int ✓ Smallint ✓ Float ✓ Real ✓ double ➤ SQL commands and functions <ul style="list-style-type: none"> ✓ Create <ul style="list-style-type: none"> ▪ Unique ▪ Primary key ▪ Default ▪ Check ✓ Select <ul style="list-style-type: none"> ▪ Distinct ✓ From ✓ Where 	5	2	<ul style="list-style-type: none"> • Illustrations through examples • Lecture Method • Discussions of new topics & real life situations • Explanation of different types of questions. • Sumita arora questions are done/given as CW & HW. • SQL QUERIES • SQL OUTPUT • RELATIONAL ALGEBRA QUERIES • NETWORKING 4 MARK QUESTIONS 	<ul style="list-style-type: none"> • Sumita arora Text Book • Reference Books • Educational software like Extramarks 	<ul style="list-style-type: none"> • Class Test • Registers of CW & HW • Activity done in the class
					9	6		

		<ul style="list-style-type: none"> ▪ Between ▪ Not between ▪ In ▪ Not in ▪ AND, OR, NOT ▪ Like ▪ Not like ✓ Orderby <ul style="list-style-type: none"> ▪ Desc ▪ aesc ✓ Groupby ✓ Having ✓ Aggregate function <ul style="list-style-type: none"> ▪ Count() ▪ Count(*) ▪ Sum() ▪ Avg() ▪ Max() ▪ Min() ✓ Insert into ✓ Delete ✓ Update ✓ Create view ✓ Drop view ✓ Drop table ✓ Alter table ➤ Built-in functions <ul style="list-style-type: none"> ✓ Lower() ✓ Upper() ✓ Replicate() ✓ Substr() ✓ Getdate() ➤ Joins ➤ Union ➤ DDL commands 					
		<p>COMMUNICATION TECHNOLOGY</p> <p>Evolution of networking</p> <ul style="list-style-type: none"> ➤ ARPANET ➤ Internet 	5	10			

Switching techniques

- Circuit switching
- Message switching
- Packet switching

Transmission media

- Guided media
- Unguided media

Types of networks

- LAN
- MAN
- WAN
- PAN

Topologies

- Point to point
- Star
- Bus or liner
- Ring
- Tree
- Graph
- Mesh

Network devices

- Modem
- Hub
- Switch
- Repeater
- Bridge
- Gateway

Protocols

- HTTP
- FTP
- TCP/IP
- SLIP/PPP

Wireless/ mobile computing

			<p>Internetworking terms and concepts</p> <ul style="list-style-type: none"> ➤ WWW ➤ telnet ➤ web browser and server ➤ websites, address, pages ➤ URL And domain name ➤ Web hosting ➤ Web 2.0 ➤ HTML ➤ XML ➤ DHTML ➤ Web scripting <p>Network security</p> <p>Viruses</p>					
NOVEMBER	15	15	<p>BOOLEAN ALGEBRA</p> <ul style="list-style-type: none"> • Logical operators <ul style="list-style-type: none"> ➤ And ➤ Or ➤ Not • Truth table • Logic gates <ul style="list-style-type: none"> ➤ Inverter ➤ Or gate ➤ And gate • Principle of duality • Theorems <ul style="list-style-type: none"> ➤ Properties of 0 and 1 ➤ Indempotence law ➤ Involution ➤ Complementarity law ➤ Commutative ➤ Associative ➤ Distribution ➤ Absorption • De Morgan's law • Minterms • Maxterms 	15	10	<ul style="list-style-type: none"> • Illustrations through examples • Lecture Method • Discussions of new topics & real life situations • Explanation of different types of questions. • Sumita arora questions are done/given as CW & HW. • PROOF OF THEORMS • K MAP • SOP • POS • LOGICAL CIRCUIT • NAND TO NAND • NOR TO NOR 	<ul style="list-style-type: none"> • Sumita arora Text Book • Reference Books • Educational software like Extramarks 	<ul style="list-style-type: none"> • Class Test • Registers of CW & HW • Activity done in the class

			<ul style="list-style-type: none">• Minimization of Boolean algebra					
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- Algebraically

- K-Map

- SOP

- POS

- Universal gates

- NAND

- NOR

- XOR

- XNOR

- NAND to NAND

- NOR to NOR

MONTH	NO. OF DAYS	PERIOD AVAILABLE	TOPIC/ SUBTOPICS TO BE COVERED	PERIODS REQUIRED	WEIGHTAGE	ACTIVITIES/ PROCESSES	RESOURCES/ ICT	ASSESSMENT
March	18	23	Computer Networking <ul style="list-style-type: none"> • Introduction • Need for Networking • Terminology of Network like nodes, IP Address, Domain Name etc. • Domain Name Resolution • Network Topologies like Bus, star etc. • Types of Network like Man Wan etc • Transmission Media like Coaxial cable, Optical Fibre, Radio wave, micro wave etc. • Network devices like modem, hub, switch, repeater etc. • Network Security 			<ul style="list-style-type: none"> • Explanation of literal meaning of all the technical terms related to networking and shown them the hardware and network devices so that they can understand the practical aspects of the same. • Shown them the pattern of computers connected in our school and even discuss with them about all the devices used like switch, hub, repeater, firewall etc so that they can understand practical advantages, disadvantages and difficulties/Problem in laying down the wires and devices for networking • Detailed discussion regarding wireless media like Bluetooth, Infrared, Microwave etc. Example of FM Radio/Transistor should be discussed to get an idea about the frequency receiver and sender. • Discussion of antennas used by Mobile Network Operator after every certain distance, so that they can understand the functionality of repeater, 	Text Book Assignment CBSE Paper	Class Test Explanation of topic by student

April	18	24	<p>Open Source Concepts</p> <ul style="list-style-type: none"> • Introduction • Open Source software terms like free software, proprietary software etc • Indian Language Computing • Unicode <p>GUI Programming A review</p>		<p>amplifier etc.</p> <ul style="list-style-type: none"> • Discussion about the cable TV network and other live network. • Discussion about the License and non-license/ open software as well as pirated software. • Discussion about the change in syllabus by cbse from classes IX to XII from licensed software to open software so that there is no burden on school to pay the huge licence fees. • Discussion about the various terms like W3C, Proprietary software, freeware, shareware etc. • Shown them the demo of one Hindi typing software like webdunia where we type words as per their pronunciation in English script and later converted to corresponding language ie Hindi, From this students will get a better idea about Phonetic Text Entry or Transliteration • Also showing them the same feature available in Google where we type in English and convert it into desired language. • Discussion about the basic screen of Net beans to revise 	Text Book Assignment	Class Test Practical Test
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		<ul style="list-style-type: none"> • Introduction • Rapid Application Development • Java Character Set • Token like Keywords, Identifiers, Literals etc • Data Types • Variables and Constants • Operators in Java like Arithmetic, Relational Operator, Logical Operator etc. • Swing Controls • Parent Control and Child Control 		<p>the various components/parts of screen and shown them on their system in computer lab</p> <ul style="list-style-type: none"> • Giving them an example of mall where they can get each and every thing from needle to fridge ie one stop for everything ,the same way is an interface of Net beans where they can write the code, compile the code and even rectify the code • Identify the various symbols used in English or hindi language like A-Z, a-z, ?, !etc similarly they can understand the character set of Java language • Discussion about the various kinds of data they are using in their daily life like name, dob, mobile number, absent or present, so that they can understand about the various kinds of data types available in any language. • Showing them any online form, so that students can understand various swing controls and their usage • Demonstration of simple program using String and Numeric data type and discussion about the various methods/functions used in coding and also giving them hands on practice of lot more program. • Discussion about the authentication required to 	CBSE Paper	
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						access any secured documents like their mail using their user name and password so that they can understand the usage of password field which is used in ATM machines, Net Banking etc		
May	14	20	Basics of Object Oriented Programming <ul style="list-style-type: none"> • Introduction to Class, Object • Methods • Access Specifier 			<ul style="list-style-type: none"> • Discussion about the terms like Object Oriented Programming, Class, Object, methods etc using live conditions like simple car(having one accelerator, brake, Clutch, Stearing etc) is a base class and the all varieties of car are their derived class which have the basic features as well as advanced features. 	Text Book Assignment CBSE Paper	Class Test
July-	21	28	GUI Programming : A review (continued...) <ul style="list-style-type: none"> • Programming Constructs like Sequential Statement, Selection Statement, Iteration Statement 			<ul style="list-style-type: none"> • Discussion about the various live situations to make them clear about all types of Programming Constructs like writing A to Z or promoting from one class to another class is an example of Sequential Constructs. • Another situations like if you score 80% or above than I will give you Mobile otherwise a Chocolate Discussion a lot more situations give them a better idea about Selection Statement • Discussion on situations like take 5 rounds of the field, 	Text Book Assignment CBSE Paper	Practical Test
August	20	27	<ul style="list-style-type: none"> • Basic Graphical control of Swing like Text Field, Button, Text Area, Radio Buttons etc 					Practical Test

					<p>pluck 10 flowers from the garden help them to understand about the loop ie doing same task again and again.</p> <ul style="list-style-type: none"> • Showing them demo of all kinds of constructs via simple programs to complicated programs and also give them a lot more programs for practice. • Demonstration of different types of programs which involved various swing control most important selection control like check box, radio button, list box and combo box. • Given them various forms to design and write the code for the appropriate buttons. • Discussion about the various events related to the various controls so that they can understand about event driven programming. 		
September	7	11	<p>Ch8. My SQL Revision Tour</p> <ul style="list-style-type: none"> • Introduction • Relational Model Terminology • SQL elements like Literals, Data types, Null Values etc • Creating Tables • Inserting data into Tables • Making Simple Queries through 		<ul style="list-style-type: none"> • Discussion about the terminology of Database Management System like Table, Database, Primary Key, Foreign Key etc. • Shown them the working of Campuscare (campus MIS Software) where they can understand how to search a student so that they they can understand the importance of Primary Key. • Discussion about various other system where Primary 	Text Book Assignment CBSE Paper	Class Test Practical Test

			Select Command		<p>Key is used like Banking System (Account Number or Pan Number), Railway reservation System, Library Management System(Book No) etc</p> <ul style="list-style-type: none"> • Discussion about type /kind of data about an entity so that they can think what kind of data to be stored while creating a table like book, Hotel, Student etc • Demonstration of creating table in My SQL with appropriate Syntax as well as how to insert records/data in table • Discussion /Demonstration of various queries with different clauses. • Taking out the various kinds of reports from Campuscare will be shown to students so that they can understand how different queries result in different report. 		
October	17	22	<p>Ch9. More on Database and SQL</p> <ul style="list-style-type: none"> • String Function • Numeric Function • Date and Time Functions • Altering Table • Deleting Data from Table • Modify Data From Table 		<ul style="list-style-type: none"> • Discussion about the term functions along with the demo in MY SQL. • Explanation of all types of functions with different input values so that they can understand the functionality of all the functions. • Demonstration of queries where we use such function so that they can get an exposure of various kinds of 	Text Book Assignment CBSE Paper	Class Test Practical Test

			<ul style="list-style-type: none"> • Table Join <p>Ch10. Advanced RDBMS Concepts</p> <ul style="list-style-type: none"> • Transaction • Commit Statement • Roll back • Save Point 		<p>queries</p> <ul style="list-style-type: none"> • Shown them the various option where they can authenticate other as a database administrator like delete option and Edit option. • Explain them the use of such option in live world. • Shown them various queries where they can learn to edit delete various kinds of data from table on the basis of various conditions. • Giving them demo where we need to store the data in multiples tables and extract/retrieve the data from various tables simultaneously, so that they can understand the concept of joining the tables on the basis of primary key. • Introduction to the term Transaction by giving various examples like transferring amount of Rs 2000 from my account to my brother's account. • Demonstration of various other examples like if you are doing online shopping and you entered your pin and suddenly your system shuts down and money deducted from your account but does not receive by other. • The above examples help them to understand the 		
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					<p>meaning of commit and rollback</p> <ul style="list-style-type: none"> • Discussion about the term savepoint by taking an example of bookmark/favourites in browser so that they can understand the concept of the terms Save point and Save Point to 		
November	19	25	<p>Ch6. Database Connectivity</p> <ul style="list-style-type: none"> • Ch7. Web Application 		<ul style="list-style-type: none"> • Demonstration will be given to our school software (campuscare) and discussion about the various situations like working of ATM machines where your pin number act as primary key and any withdrawal from machines will update your account automatically, Now they can understand the meaning as well as usage of database connectivity. • Various Interfaces of online programs will be shown to them so that they can understand the meaning of user friendly interface. 	Text Book Assignment CBSE Paper.	<ul style="list-style-type: none"> • Project • Practical Test • Designing of web page

ECONOMICS

<i>MONTH</i>	<i>NO OF DAYS</i>	<i>PERIODS AVAILABLE</i>	<i>TOPICS/SUBTOPICS TO BE COVERED</i>	<i>PERIODS REQUIRED</i>	<i>ACTIVITIES/ PROCESS</i>	<i>RESOURCES/ ICT</i>	<i>ASSESSMENT</i>
MAR CH	18	24	<u>Part A: Introductory Microeconomics</u> <u>UNIT 1: Introduction ;</u> Meaning of microeconomics and macroeconomics What is an economy? Central problems of an economy : what, how and for whom to produce; concepts of production possibility frontier and opportunity cost. <u>Unit 2</u> Consumer equilibrium & demand --- utility analysis , consumer’s equilibrium using marginal utility analysis , indifference curve analysis & conditions of consumer ‘s equilibrium under IC analysis.	8 16	Lecture, interaction by taking real life examples , diagrams, & power point presentations .	NCERT Text book, reference books , question bank,Extra marks & Tata edge.	Class test, (both written & oral), assignments unit tests , semester exams & Preboard..
APRI L	18	26	Demand & elasticity of demand – Demand, market demand , determinants of demand, demand schedule , demand curve , movement along and shifts in demand curve, price elasticity of demand & measurement of price elasticity by percentage change method.	14	Lecture, Discussion, diagrams, numericals, & power point presentations -	NCERT Text book, reference books , question bank,Extra marks,& Tata edge.	Class test, (both written & oral), assignments, unit tests, semester exams & Preboard.

			<p><u>UNIT 3</u> Theory of production -- Production function: Total Product, Average Product and Marginal Product &Returns to a Factor.</p>	12	Lecture, Discussion, diagrams, numerical & power point presentations	NCERT Text book, reference books , question bank,Extra marks,& Tata edge.	Class test, (both written & oral), assignments unit tests, semester exams & Preboard
MAY	14	19	<p>Cost and Revenue: Short run costs - total cost, total fixed cost, total variable cost; Average fixed cost, average variable cost and marginal cost-meaning and their relationship. Revenue - total, average and marginal revenue. Producer's equilibrium-meaning and its conditions in terms of marginal revenue- marginal cost.</p>	19	Lecture, Discussion , diagrams, numerical s & power point presentations	NCERT Text book, reference books , question bank,Extra marks,& Tata edge	Class test, (both written & oral), assignments unit tests, semester exams & Pre board.
JULY	21	29	<p>Supply, market supply, determinants of supply, supply schedule, supply curve, movements along and shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply - (a) percentage change method .</p> <p><u>UNIT 4:</u> Forms of Market and Price Determination under Perfect Competition with simple applications.</p>	18	Lecture, Discussion, diagrams & power point presentations	NCERT Text book, reference books , question bank,Extra marks,& Tata edge.	Class test, (both written & oral), assignments unit tests, semester exams & Preboard
				11	Lecture, Discussion &diagrams	NCERT Text book, reference books ,	Class test, (both written & oral), assignments unit tests, semester

			<p>Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply. Other Market Forms - monopoly, monopolistic competition, oligopoly - their meaning and features. Simple Applications of tools of Demand and Supply: Price ceiling, price floor.</p>			question bank,Extra marks,& Tata edge	exams & Pre board
AUG UST	20	28	<p><u>Part B: Introductory Macroeconomics</u> <u>UNITt 5:</u> <u>National Income and Related Aggregates</u> Some basic concepts: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation & Circular flow of income.</p>	12	Lecture, Discussion, diagrams & power point presentations	NCERT Text book, reference books , question bank,Extra marks,& Tata edge	Class test, (both written & oral), assignments unit tests, semester exams & Pre board
			<p>Methods of calculating National Income - Value Added or Product method, Expenditure method, Income method. Aggregates related to National Income: Gross National Product (GNP), Net National Product (NNP), Gross and Net Domestic Product (GDP and NDP) - at market price, at factor cost; Real and Nominal GDP. GDP and Welfare</p>	16	Lecture, Discussion, numerical s & power point presentations	NCERT Text book, reference books , question bank,Extra marks,& Tata edge.	Class test, (both written & oral), assignments unit tests, semester exams & Preboard
SEPT EMBE ER	7	10	REVISION FOR SEMESTER I			.	

OCTO BER	17	24	<p><u>UNIT 6:</u> <u>Money and Banking</u> Money - its meaning and functions. Supply of money - Currency held by the public and net demand deposits held by commercial banks. Money creation by the commercial banking system. Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Controller of Credit through CRR, SLR, Reverse Repo, Open Market Operations, Margin requirement.</p>	18	Lecture, Discussion, numericals &, power point presentations	NCERT Text book, reference books , latest RBI guidelines , question bank,Extra marks,& Tata edge.	Class test, (both written & oral), assignments unit tests, semester exams & Preboard..
			<p><u>UNIT 8: Government Budget and the Economy</u> Government budget - meaning, objectives and components. Classification of receipts - revenue receipts and capital receipts; classification of expenditure - revenue expenditure and capital expenditure.</p>	6	Lecture & interaction on the current year's Budget,	NCERT Text book, reference books , question bank,Extra marks,& Tata edge.	Class test, (both written & oral), assignments unit tests, semester exams& Preboard.
NOV EMB ER	22	30	<p>Measures of government deficit revenue deficit, fiscal deficit, primary deficit their meaning. <u>UNIT 7: Determination of Income and Employment ;</u> Aggregate demand and its components. Propensity to consume and propensity to</p>	15	Lecture, &Discussion about the pattern of fiscal deficits in India.	NCERT Text book, reference books , question bank,Extra marks,& Tata	Class test, (both written & oral), assignments unit tests, semester exams & Preboard

		<p>save (average and marginal). Short-run equilibrium output; investment multiplier and its mechanism. Meaning of full employment and involuntary unemployment. Problems of excess demand and deficient demand; measures to correct them - change in government spending, availability of credit.</p> <p><u>UNIT 9:</u> <u>Balance of Payments ;</u> Balance of payments account, meaning and components; balance of payments deficit-meaning. Foreign exchange rate - meaning of fixed and flexible rates and managed floating. Determination of exchange rate in a free market.</p>			edge.	
		Revision	10	Lecture &, discussion on the balance of payments trends in India.	NCERT Text book, reference books , question bank,Extra marks,& Tata edge.	Class test, (both written & oral), assignments, unit tests , semester exams & preboard.
			5			

ACCOUNTS

MONTH	NO OF DAYS	PERIOD AVAILABLE	TOPICS/SUBTOPICS TO BE COVERED	PERIODS REQUIRED	ACTIVITIES/ PROCESS	RESOURCES/ICT	ASSESSMENT
March	18	25	<p>Unit 1: Accounting for Partnership Firms</p> <p>Fundamentals: Partnership: features, Partnership deed. Provisions of the Indian Partnership Act 1932 in the absence of partnership deed. Fixed v/s fluctuating capital accounts. Preparation of Profit & Loss Appropriation account division of profit among partners, guarantee of profits. Past adjustments (relating to interest on capital, interest on drawing, salary and profit sharing ratio). (cont.d) Past adjustments (relating to interest on capital, interest on drawing, salary and profit sharing ratio).</p> <p>Valuation of Goodwill: Goodwill: nature, factors affecting and methods of valuation - average profit, super profit and capitalization.</p>	19	<p>DETAILED DISCUSSION Effect of Non Registration of Partnership Firm Illustration with examples</p> <p>Illustration with examples</p>	<p>http://taxguru.in/partnership-act/effect-of-non-registration-of-partnership-firm.html</p> <p>Extra marks.com Refresher books</p>	<p>MID SEM 1 TERM 1 TERM 2 PREBOARD</p> <p>MID SEM 1 TERM 1 PREBOARD</p>
April	18	21	<p>Change in the Profit Sharing Ratio: Among the existing partners - sacrificing ratio, gaining ratio. Accounting for revaluation of assets and re-assessment of liabilities and distribution of reserves and accumulated profits.</p> <p>Admission of a partner – Effect of admission of a partner on change in the profit sharing ratio. Treatment of goodwill (as per AS 26), treatment for</p>	16	<p>Illustration with examples</p>	<p>Extra marks.com Refresher books</p>	<p>MID SEM 1 TERM 1 PREBOARD</p>
(5 DAYS BOARD CHECKING)				5	<p>Set Inductive Method</p>	<p>Extra marks.com Refresher books</p>	<p>MID SEM 1 TERM 1</p>

			revaluation of assets and re - assessment of liabilities, treatment of reserves and accumulated profits,		Illustration with examples		TERM 2 PREBOARD
May	14	23	Admission of a partner – adjustment of capital accounts Preparation of balance sheet.	17	Set Inductive Method Illustration with examples	Extra marks.com Refresher books	TERM 1 PREBOARD
			Retirement and death of a partner: Effect of retirement /death of a partner on change in profit sharing ratio, treatment of goodwill (as per AS 26), treatment for revaluation of assets and re -assessment of liabilities, adjustment of accumulated profits and reserves, adjustment of capital accounts and preparation of balance sheet. (cont.d)	6	Illustration with examples	Extra marks.com Refresher books	TERM 1 TERM 2 PREBOARD
July	21	33	Retirement and death of a partner: Preparation of loan account of the retiring partner. Calculation of deceased partner's share of profit till the date of death. Preparation of deceased Partner's capital account, executor's account and preparation of balance sheet.	15	Set Inductive Method Illustration with examples Case study	Extra marks.com Refresher books Garner vs Murray http://onlinelibrary.wiley.com/doi/10.1111/j.1467-6281.1967.tb00366.x/abstract	TERM 1 TERM 2 PREBOARD
			Dissolution of partnership firms: Types of dissolution of firm. Settlement of accounts - preparation of realization account, and other related accounts	18			
August	20	30	Unit -2 Accounting for Companies Accounting for Share Capital Nature and types of shares	23	Set Inductive Method Illustration with examples		TERM 1 TERM 2 PREBOARD

			<p>Issue and allotment of equity shares, private placement of shares, Public subscription of shares - over subscription and under subscription of shares; Issue at par and at premium and at discount, calls in advance and arrears (excluding interest), issue of shares for consideration other than cash. Partial allotment Accounting treatment of forfeiture and re-issue of shares. Disclosure of share capital in company's Balance Sheet.</p> <p>Accounting for Debentures</p> <p>Issue of debentures :at par, at premium and at discount. Issue of debentures for consideration other than cash; Issue of debentures with terms of redemption; debentures as collateral security-concept, interest on debentures.</p>		<p>How to apply for an IPO</p> <p>http://www.rediff.com/money/2004/mar/06spec.htm</p> <p>http://economictimes.indiatimes.com/definition/reverse-repo-rate</p> <p>http://economictimes.indiatimes.com/definition/repo-rate</p> <p>http://economictimes.indiatimes.com/definition/insider-trading</p>		
			<p>Accounting for Debentures</p> <p>Issue of debentures :at par, at premium and at discount. Issue of debentures for consideration other than cash; Issue of debentures with terms of redemption; debentures as collateral security-concept, interest on debentures.</p>	6	<p>Illustration with examples</p> <p>http://www.dummies.com/how-to/content/the-basic-rules-of-stock-trading.html</p> <p>http://www.dummies.com/how-to/content/how-to-trade-in-stocks-online.html</p>	<p>TERM 1 TERM 2 PREBOARD</p>	
September	7	10	<p>Redemption of debentures: Lump sum, draw of lots and purchase in the open market (excluding ex-interest and cum-interest). (cont.d)</p> <p>Redemption of debentures: Lump sum, draw of lots and purchase in the open market (excluding ex-interest and cum-interest). REVISION</p>	10	<p>Illustration with examples</p> <p>Illustration with examples</p>	<p>Extra marks.com Refresher books</p> <p>Extra marks.com Refresher books</p>	<p>TERM 2 PREBOARD</p>
October	17	27	<p>Part B: (i) Financial Statement Analysis</p> <p>Unit 3: Analysis of Financial Statements</p> <p>Financial statements of a company: Statement of Profit and Loss and Balance Sheet in the</p>	8	<p>Set Inductive Method</p>	<p>Extra marks.com Refresher books</p>	<p>TERM 2 PREBOARD</p>

November	19	31	<p>prescribed form with major headings and sub headings (as per Schedule VI to the Companies Act, 1956).</p> <p>Scope: Exceptional Items, Extraordinary Items and Profit (loss) from Discontinued Operations are excluded.</p> <p>Financial Statement Analysis: Objectives and limitations.</p> <p>Tools for Financial Statement Analysis: Comparative statements, common size statements, Cash flow analysis, ratio analysis.</p> <p>Accounting Ratios: Objectives, classification and computation. Liquidity Ratios: Current ratio and Quick ratio. Solvency Ratios: Debt to Equity Ratio, Total Asset to Debt Ratio, Proprietary Ratio and Interest Coverage Ratio. (cont.d)</p>	3	Illustration with examples		TERM 2 PREBOARD
			6	Set Inductive Method Illustration with examples	Extra marks.com Refresher books		
			10	Set Inductive Method Illustration with examples	Extra marks.com Refresher books		
			<p>Accounting Ratios Activity Ratios: Stock Turnover Ratio, Debtors Turnover Ratio, Creditors Turnover Ratio and Working Capital Turnover Ratio. Profitability Ratios: Gross Profit Ratio, Operating Ratio, Operating Profit Ratio, Net Profit Ratio</p> <p>Unit 4: Cash Flow Statement Meaning, objectives and preparation (as per AS 3 (Revised) (Indirect Method only) Scope: <i>Adjustments relating to depreciation and amortisation, profit or loss on sale of assets including investments, dividend (both final and interim) and tax.</i></p>	18	Set Inductive Method Illustration with examples	Extra marks.com Refresher books	
			<p>Unit 4: Cash Flow Statement Meaning, objectives and preparation (as per AS 3 (Revised) (Indirect Method only) Scope: <i>Adjustments relating to depreciation and amortisation, profit or loss on sale of assets including investments, dividend (both final and interim) and tax.</i></p>	13	Set Inductive Method	Extra marks.com Refresher book http://www.dummies.com/how-to/content/how-to-use-a-cash-flow-statement-when-making-inves.html	TERM 2 PREBOARD

MONTH	NO OF DAYS	PERIOD AVAILABLE	TOPICS/SUBTOPICS TO BE COVERED	PERIODS REQUIRED	ACTIVITIES/PROCESS	RESOURCES/ICT	ASSESSMENT
MARCH	18	24	Unit 1: Nature and Significance of Management Management-concept, objectives, and importance Concept includes meaning and features, Management as Science, Art and Profession, Levels of Management, Management functions- planning, organizing, staffing, directing and controlling, Coordination- concept and importance	20	DETAILED DISCUSSION, Case Studies	Power point presentation Case studies from different textbooks B.St, Blogs	Mid Sem-1 Term-1 Class Test Term-2 Pre Board
			Unit 2: Principles of Management Principles of Management- concept and significance (Contd.)	4	DETAILED DISCUSSION, Case Studies	Power point presentation Case studies from different textbooks B.St, Blogs	Mid Sem-1 Term-1 Class Test Term-2 Pre Board
APRIL	18	25	Unit 2: Principles of Management Fayol's principles of management, Taylor's Scientific management- principles and Techniques.	12	DETAILED DISCUSSION, Case Studies & Class Activity	Power point presentation Case studies from different textbooks B.St, Blogs	Mid Sem-1 Term-1 Class Test Term-2 Pre Board
			Unit 4: Planning Concept, importance and limitation, Planning process, Single use and standing plans. Objectives, Strategy, Policy, Procedure, method Rule, budget and Programme	13			Term-1 Class Test Term-2 Pre Board
MAY	14	21	Unit 3: Business Environment Business Environment- concept and importance, Dimensions of Business Environment- Economic, Social, Technological, Political and Legal, Impact of Government policy changes on business with special reference to liberalization,	12	DISCUSSION, Case Studies	Power point presentation Case studies from different textbooks B.St, Blogs	Mid Sem-1 Term-1 Class Test Term-2 Pre Board

			privatization and globalization in India Unit 5: Organising Concept and importance, Organising Process (Contd.) Project Work	6 3	DETAILED DISCUSSION,	Power point presentation Case studies from different textbooks B.St, Blogs	Term-1 Class Test Term-2 Pre Board
JULY	21	30	Unit 5: Organising (Contd.) Structure of organisation- functional and divisional concept. Formal and informal organisation- concept, Delegation: concept, elements and importance Decentralization: concept and importance Unit 6: Staffing Concept and importance of staffing, Staffing as a part of Human Resource Management concept, Staffing process, Recruitment process, Selection- process, Training and Development- Concept and importance, Methods of training- on the job and off the job- Induction training, vestibule training, apprenticeship training and internship training	12 18	DETAILED DISCUSSION, Case Studies & Class Activity DETAILED DISCUSSION, Case Studies	Power point presentation Case studies from different textbooks B.St, Blogs Power point presentation Case studies from different textbooks B.St, Blogs	Term-1 Class Test Term-2 Pre Board Term-1 Class Test Term-2 Pre Board
AUGUST	20	28	Unit 7: Directing Concept and importance, Elements of Directing, Supervision –concept, function of a supervisor, Motivation-concept, Maslow’s hierarchy of needs, Financial and non financial incentives, Leadership- concept, styles- authoritative, democratic and laissez faire, Communication- concept, formal and informal communication; barriers to effective communication, how to overcome the barriers Unit 8: Controlling Concept and importance,	24 4	DETAILED DISCUSSION, Case Studies & Class Activity DETAILED DISCUSSION	Power point presentation Case studies from different textbooks B.St, Blogs Power point presentation	Term-1 Class Test Pre Board Term-1 Class Test Term-2 Pre Board

SEPTEMBER	7	10	<p>Unit 8: Controlling (Contd.) Relationship between planning and controlling Steps in process of control</p> <p>REVISION</p> <p>Unit 9: Financial Management Concept, role and objectives of Financial Management</p>	5	DETAILED DISCUSSION, Case Studies	Power point presentation Case studies from different textbooks B.St, Blogs	Term-1 Class Test Term-2 Pre Board
				3	Case Studies	Casestudies from different sources	Class Test Term-2 Pre Board
				2	DETAILED DISCUSSION	Power point presentation Case studies from different textbooks B.St, Blogs	
OCTOBER	17	22	<p>Unit 9: Financial Management (Contd.) Financial decisions: investment, financing and dividend- Meaning and factors affecting, Financial Planning- concept and importance, Capital Structure- Concept, Fixed and Working Capital- Concept and factors affecting their requirements</p> <p>Unit 10: Financial Markets Financial Markets: Concept, Functions and types, Money market and its instruments, Capital market and its types (primary and secondary), methods of floatation in the primary market. Stock Exchange- Functions and trading procedure, Securities and Exchange Board of India (SEBI) - objectives and functions</p> <p>Unit 11: Marketing Management Selling and Marketing- Concept, Marketing Management- Concept</p>	10	DETAILED DISCUSSION, Case Studies	Power point presentation Case studies from different textbooks B.St, Blogs	Class Test Term-2 Pre Board
				10	DETAILED DISCUSSION, Case Studies	Power point presentation Case studies from different textbooks B.St, Blogs	Class Test Term-2 Pre Board
				2	DETAILED DISCUSSION		Class Test Term-2 Pre Board
NOVEMBER	22	31	<p>Unit 11: Marketing Management (Contd.) Marketing Functions, Marketing management philosophies, Marketing Mix – Concept and elements, Product - branding, labelling and packaging - Concept, Price- Concept, Factors determining</p>	15	DETAILED DISCUSSION, Case Studies	Power point presentation Case studies from different textbooks B.St, Blogs	Class Test Term-2 Pre Board

		<p>price, Physical Distribution - concept and components, channels of distribution: types, choice of channels. Promotion – Concept and elements; advertising concept, role, objections against advertising, personal selling-concept and qualities of a good salesman, sales promotion- concept and techniques, public relations- concept and role</p> <p>Unit 12: Consumer Protection Concept and importance of consumer protection, Consumer Protection Act 1986: Meaning of consumer, Rights and responsibilities of consumers, Who can file a complaint against whom?, Redressal machinery, Remedies available Consumer awareness- Role of consumer organizations and Non-Governmental organizations (NGOs).</p> <p>REVISION</p>	10	DETAILED DISCUSSION, Case Studies	Power point presentation Case studies from different textbooks B.St, Blogs	Class Test Term-2 Pre Board
			6	Case Studies	Case studies from different textbooks	

HOME SCIENCE

MONTH	NO. OF DAYS	PERIOD AVAILABLE	TOPIC/ SUBTOPICS TO BE COVERED	PERIODS REQUIRED	WEIGHTAGE	ACTIVITIES/ PROCESSES	RESOURCES / ICT	ASSESSMENT
March 2017	18	20	<u>Unit I:</u> HUMAN DEVELOPMENT: LIFE SPAN APPROACH- (PART II) Adolescence(12-18years) a)Growth and development- Domains and principles b)Meaning, characteristics and need c)Influence on identity formation: -biological and physical changes -Social, culture and media -emotional changes - cognitive changes d) Specific issues and concerns -eating disorders -depressions -substance abuse -Related to sex -handling stress and peer pressure	5 5 5 5	15	-Discussion -lecture method -Observe children of different age group and identify the early and late maturers and problems associated with it -Identify the problems of adjustment of adolescence with the help of tool (group activities) and make a report. - Observe children of different age group(0-2yrs,2-7yrs,7-11 yrs and 15yrs) and write a report on their cognitive abilities	-Videos related to the topic -text Book on Psychology (NCERT - XII)	Class test Semester test
April 2017	18	20	<u>Unit :I contd...</u> Adulthood, Old Age and Anger management a)Understanding, management of new responsibilities, career, marriage and family. b)Health and wellness: physical, social, emotional , financial ,recreational needs. c)Care for elderly (at home and outside)	5 5	15	-Group discussion -Personal experiences -spend a day with an aged person and observe the needs and problems. -List and discuss 4 to 5 areas of agreement and disagreement of self with : - friend -mother -father -sibling -teacher	-Videos related to the topic -Book on Psychology (NCERT class XII)	Class test

			<u>Unit II :</u> NUTRITION FOR SELF, FAMILY AND COMMUNITY a)Use of basic food groups(ICMR) and serving sizes in meal planning b) Factors influencing selection of food, purchasing power and individual preferences.	5 5	Record the meal of a day for an individual and evaluate it against principles of balanced diet. Record the meal of a day for a family belonging to different culture and region and identify .the factors influence the selection of food in a family	Videos on nutrition Class XI home Science text book Group discussion	Class test
May 2017	14	14	Unit II contd... <u>MEAL PLANNING</u> a)Meaning, importance and factors affecting meal planning. <u>MODIFICATION OF MEALS</u> a) Nutritional need, food preferences and modification of diets in different age groups- infants, children, adolescence, adults, elderly and in special conditions: pregnancy and lactation.	7 7	Plan a diet for a : -high income family -middle income family -low income family	Videos related to the topic.	Class Test
May 2017	5	20	<u>UNIT II</u> contd... <u>THERAPEUTIC MEAL MODIFICATIONS</u> a) Therapeutic modification of normal diet with respect to consistency, frequency, food stuffs, nutrients and method of cooking. d)Modification of diet according to common ailments-diarrhea, fever, jaundice, hypertension, diabetes and constipation.(Physiological changes, clinical symptoms, requirement and dietary requirements	10	Plan and modify the meal for the physiological conditions – diarrhea, jaundice, fever, constipation, hypertension, diabetes, pregnancy, lactation, old age and adolescence. Identify and list the important points to be kept in mind while planning a meal for above mentioned conditions.	Videos related to the topic	Class test

			<p>in each condition</p> <p><u>FOOD SAFETY AND QUALITY</u></p> <p>a) Safe food handling (personal, storage, Kitchen, cooking and serving)</p> <p>b) Safety against food adulteration, Definition and meaning of food adulteration as given by (FSSAI)- Food Safety and Standard Authority of India.</p> <p>c) Common adulterants present in cereals, pulses, milk and milk products, fats and oils, sugar, jiggery, honey, spices and condiments.</p> <p>d) Effects of some of the adulterants present in food: Keseri dal, Metanil yellow, argemone seeds.</p> <p>e) Food standards (FPO , Agmark, ISI)</p> <p><u>UNIT III:</u> <u>MONEY MANAGEMENT AND CONSUMER EDUCATION</u></p> <p><u>FAMILY INCOME</u> Type of income-Money income, real (direct, indirect), psychic income. Various sources of family income.</p>	5		<p>Identify the food adulteration: using usual and chemical methods: turmeric, chana dal, Bura sugar, milk, tea leaves or coriander powder, black pepper seeds, Desi ghee.</p> <p>Prepare ORS solution.</p>		
				5		<p>Collect and fill saving account opening form in post office and bank.</p>	Videos related to the topic.	
July 2017	21	28	Supplementing family income-need and ways; need and procedure for keeping house hold account (daily, weekly and monthly).	10	17	Visit to a nearby bank.	Videos related to consumer education- malpractices adopted by	Class test

			<p>SAVING AND INVESTMENT</p> <p>a) Meaning and importance of saving</p> <p>b) Basis for selection of method of investment: risk, security, profit, tax saving</p> <p>c) Banks, post office, Provident funds Insurance.</p>	18		<p>Fill up the following forms and paste in your fill: Withdrawal slip, Deposit slip, Draft slip, A/C payee cheque, bearer cheque.</p>	shopkeeper.	
August 2017	21	28	<p>Unit III contd...</p> <p><u>CONSUMER PROTECTION AND EDUCATION</u></p> <p>a) Consumer Protection and Education- Meaning, problems faced by consumer</p> <p>b) Role of consumer education</p> <p>Consumer Protection Amendment Act(2011), Consumer aids: labels, standardization marks(ECO, Hallmark, Wool Mark, Silk mark), advertising, leaflets and consumer redressal forum.</p> <p><u>UNIT IV :</u> APPAREL : DESIGNING, SELECTION AND CARE</p> <p>a) Principles and elements of design</p>	7	18	<p>Collect labels of any three products and compare them with mandatory requirements</p> <p>Prepare one label each of any three items bearing ISI, FPO and Agmark.</p> <p>Interview any ten people in your neighborhood and discuss the problems they might have faced as a consumer. Also try to find out the solution for the same.</p> <p>Illustrate principles of design or elements of art on a paper or cloth and evaluate.</p>	<p>Fashion shows</p> <p>Magazines</p> <p>Videos showing draping of garments while keeping in mind the principles of design.</p>	<p>Class test</p> <p>Class test</p>
September 2017	7	9	<p>b) Application of elements and principles of design in designing the apparel</p> <p>c) Selection and purchase of fabric-purpose, cost, season, quality.</p>	4	5	<p>Evaluate any five branded and unbranded dresses for elements of design and principles of design</p>	<p>Fashion shows</p> <p>Magazines</p> <p>Videos showing draping of</p>	<p>Class test</p> <p>Semester test</p>

							garments while keeping in mind the principles of design.	
October 2017	17	22	<p>Unit IV contd...</p> <p>d) selection of apparel – factors- age, size, climate, occupation, fashion, drape and workmanship</p> <p>e) Care and maintenance of clothes: Cleaning agents, soaps and detergents, general principles of stain removal, stain removal of curry, tea, coffee, lipstick, ball pen and blood.</p> <p>f) Storage of clothes</p>	5		<p>Removal of different types of stains- tea, coffee, curry, grease, blood, lipstick and ball pen.</p> <p>Examine and evaluate any two readymade garments for their workmanship.</p> <p>Make a sample of hemming, backstitch, inter locking and press button, hook and eye.</p>	<p>Videos showing clothing of different age groups, regions and occupation.</p>	Class test
November 2017	19	25	<p>Unit V : Community Development and extension (part II)</p> <p>a)Water safety: importance of portable water for good health and its qualities, simple method of making water safe for drinking, use of alum and chlorine.</p> <p>b)Salient features of income generating schemes: DWCRA,MGNREGA</p> <p>Unit VI : Career Options after Home Science Education</p> <p>Career options for self and wage employment of various fields of Home Science</p> <p>REVISION</p>	6	3	<p>Visit any two places (home, restaurant, school, office etc) and observe its measure for safe drinking water and general conditions of hygiene around it.</p> <p>Group discussion Lectures by different professional people with Home Science background.</p>		Class test

PSYCHOLOGY

MONTH	NO.OF DAYS	PERIOD AVAILABLE	TOPIC/SUBTOPICS TO BE COVERED	PERIODS REQUIRED	WEIGHTAGE (out of 70)	ACTIVITIES/PROCESS	RESOURCES/ICT	ASSESSMENT
MARCH	18	24	<p><u>Intelligence and other Psychological Attributes</u> Variation in individual behaviour; Theories of Intelligence; Emotional intelligence; Creativity, Interest, Values, Aptitude; Nature and types; Assessment of psychological attributes</p> <p><u>Practical Test on Intelligence</u></p>	20	9	<p>-paper pen activity to introduce the topic -group discussion on the responses of the students - explanation of key concepts - PPT presentation followed by a lecture on it -debate -question-answer session</p> <p>-administration and interpretation of test on intelligence</p>	<p>-power point presentation - software like Extramarks (if available) - textbooks -case studies and articles from newspapers and magazines</p>	<p>- worksheet (objective) -class test (descriptive) -Quiz and MCQs</p>
APRIL	18	25	<p><u>Self and Personality</u> Aspects of Self; Self Concept , Self Esteem and Self-Regulation; Culture and self; Personality; concept of personality; approaches to study of personality; approach to personality; Type and trait, Psychodynamic, Humanistic, Existential, Behavioural and Cultural; Assessment of personality: Self-report Measures, Behavioural Analysis and Projective Measures</p> <p><u>Practical Test on personality</u></p>	24	10	<p>-set induction method to introduce the topic -group discussion on the responses of the students - explanation of key concepts - PPT presentation followed by a lecture on it -debate -question-answer session</p> <p>-administration and interpretation of test on personality</p>	<p>-power point presentation - software like Extramarks (if available) - textbooks -case studies and articles from newspapers and magazines</p>	<p>- worksheet (objective) -class test (descriptive) -Quiz and MCQs</p>
MAY	14	18	<p><u>Human Strength and Meeting</u></p>	14	7	<p>-showing a vedio to introduce</p>	<p>-power point</p>	<p>- worksheet</p>

			<p><u>Life Challenges</u> Life challenges and adjustment; Concept of adaptation; Human strengths and virtues; Stress: nature, types and coping strategies, concept of health and well-being; Life skills</p> <p><u>Practical Test on adjustment</u></p>			<p>the topic</p> <ul style="list-style-type: none"> -group discussion on the responses of the students - explanation of key concepts - PPT presentation followed by a lecture on it -debate -question-answer session <p>-administration and interpretation of test on adjustment</p>	<p>presentation</p> <ul style="list-style-type: none"> - software like Extramarks (if available) - textbooks -case studies and articles from newspapers and magazines 	<p>(objective)</p> <ul style="list-style-type: none"> -class test (descriptive) -Quiz and MCQs
JULY	21	29	<p><u>Psychological Disorders</u> Concept of abnormality and psychological disorder, Casual factors associated with abnormal behaviour, Classification of disorders, Major psychological disorders; Anxiety, Somatoform, Dissociative, Mood, Schizophrenic, Developmental and behavioural, substance related, internet addiction.</p> <p><u>Practical Test on anxiety</u></p>	24	10	<p>-a video on autism and schizophrenia and other related issues to introduce the topic</p> <ul style="list-style-type: none"> -group discussion on the responses of the students - explanation of key concepts - PPT presentation followed by a lecture on it -debate -question-answer session <p>-administration and interpretation of test on anxiety</p>	<p>-power point presentation</p> <ul style="list-style-type: none"> - software like Extramarks (if available) - textbooks -case studies and articles from newspapers and magazines 	<p>- worksheet (objective)</p> <ul style="list-style-type: none"> -class test (descriptive) -Quiz and MCQs
JULY	21	29	<p><u>Therapeutic Approaches and Counselling</u> Nature and process of therapy; Nature of therapeutic relationship; Types of therapies: Psychodynamic, Humanistic, cognitive, Behaviour; Alternative therapies: Yoga, Meditation, Zen; Rehabilitation of mentally ill people, counselling, prevention of mental disorder.</p>	20	7	<p>-paper pen activity to introduce the topic</p> <ul style="list-style-type: none"> -group discussion on the responses of the students - explanation of key concepts - PPT presentation followed by a lecture on it -debate -question-answer session 	<p>-power point presentation</p> <ul style="list-style-type: none"> - software like Extramarks (if available) - textbooks -case studies and articles from newspapers and magazines 	<p>- worksheet (objective)</p> <ul style="list-style-type: none"> -class test (descriptive) -Quiz and MCQs
AUGUST	20	29	<p><u>Social Cognition and Attitude</u> Expanding behaviour through</p>	20	8	<p>-paper pen activity to introduce the topic</p>	<p>-power point presentation</p>	<p>- worksheet (objective)</p>

			attributions; social cognition; Schemas and stereotypes; Impression formation; Nature and components of attitudes; Attitude formation and change; Pro-social behaviour; Prejudice and discrimination; Strategies for handling prejudice. Practical Test on attitude			-group discussion on the responses of the students - explanation of key concepts - PPT presentation followed by a lecture on it -debate -question-answer session -administration and interpretation of test on attitude	- software like Extramarks (if available) - textbooks -case studies and articles from newspapers and magazines	-class test (descriptive) -Quiz and MCQs
AUGUST	20	29	<u>Social Influence and Group Process</u> Process of Social Influence; Nature of conformity; Obedience and Compliance; cooperation and Competition; Groups: Nature , formation and types; Influence of Group on individual behaviour; social identity; Inter-Group conflict; Conflict Resolution Strategies	22	7	-paper pen activity to introduce the topic -group discussion on the responses of the students - explanation of key concepts - PPT presentation followed by a lecture on it -debate -question-answer session	-power point presentation - software like Extramarks (if available) - textbooks -case studies and articles from newspapers and magazines	- worksheet (objective) -class test (descriptive) -Quiz and MCQs
SEPTEMBER	8	8	Revision					
OCTOBER	17	22	<u>Environmental and Social Concerns</u> Human-environment relationship; Human impact on Environment, noise, Pollution, crowding; Natural disasters, Psychology and social concerns: Aggression and violence, Social Inequality and poverty; Impact of media ; Promoting pro-environmental behaviour.	13	6	-paper pen activity to introduce the topic -group discussion on the responses of the students - explanation of key concepts - PPT presentation followed by a lecture on it -debate -question-answer session -> methods like interview,	-power point presentation - software like Extramarks (if available) - textbooks -case studies and articles from newspapers and magazines	- worksheet (objective) -class test (descriptive) -Quiz and MCQs

			Development of case profile			observation and psychological tests to prepare case profile		
NOVEMBER	22	30	<u>Psychological Skills and their Applications</u> Domain of psychological applications: Psychological testing, Observational Skills, interviewing skills, Communication Skills.	13	6	-paper pen activity to introduce the topic -group discussion on the responses of the students - explanation of key concepts - PPT presentation followed by a lecture on it -debate -question-answer session	-power point presentation - software like Extramarks (if available) - textbooks -case studies and articles from newspapers and magazines	- worksheet (objective) -class test (descriptive) -Quiz and MCQs
DECEMBER			SEM-2					

MONTH	NO. OF DAYS	PERIOD AVAILABLE	TOPIC/ SUBTOPICS TO BE COVERED	PERIODS REQUIRED	WEIGHTAGE	ACTIVITIES/ PROCESSES	RESOURCES/ ICT	ASSESSMENT
March	16	9	Planning in sports: meaning and objectives of planning, various committees and its responsibility, tournament- knockout, league or roundrobin and combination, procedure to draw fixtures, intramural and extramural-meaning and objectives, specific sports programme-sports day, health run	10	3	<ul style="list-style-type: none"> • Lecture Method •Discussion on various topics 	PPTs, Softwares like Extramarks	Oral Test Class test
April	18	10	Adventure sports and leadership training: meaning and objectives of adventure sports, types of activities-camping, rock climbing, trekking, river rafting, mounteering, material requirements, natural resources, conservation of surroundings, creating leaders	10	5	Lecture cum interactive Method Discussion on various topics	Software like Extramarks	Oral Test Class test
May	14	10	Sports and nutrition: balanced diet and nutrition-macro and micro nutrients, nutritive and non-nutritive components, eating disorders-anorexia nervosa & bulimia, effects of diet on performance, eating for weight control, sports nutrition Postures: concept of correct postures-standing sitting, advantages of correct posture, causes of bad posture, common	10 10	4 6	<ul style="list-style-type: none"> • Lecture Method •Discussion on various topics • Lecture Method •Discussion on various 	PPTs, Software's like Extramarks	Oral Test Class test Oral Test Class test

			postural deformities, physical activities as corrective measure.					
July	21	13	Children and sports: motor development in children, factors affecting motor development, physical and physiological benefits of exercise for children, advantages and disadvantages of weight training and food supplement, activities and quality of life	10	4	Lecture cum interactive Method	Software like Extramarks	Oral Test Class test
August	20	13	Women in sports : sports participation of women in India, special consideration, female athlete triad(anemia, osteoporosis and amenorrhoea) ,psychological aspects of women athlete, sociological aspects of women participation, ideology	10	5	Lecture cum interactive Method	Software like Extramarks	Oral Test Class test
			Test and Measurement: measurement of muscular strength-kraus weber test, motor fitness test-AAPHER, measurement of cardiovascular fitness-harvard step test, measurement of flexibility-sit and reach test, rikli & jones test	12	4	Lecture cum interactive Method	Software like Extramarks	Oral Test Class test
September	8	9	Physiology & sports : gender differences in physical & physiological parameters, physiological factor determining component of physical fitness, effect of exercise on cardiovascular, respiratory system, muscular system, physiological changes due to ageing, role of physical activity maintaining functional fitness in aged population	8	4	Lecture cum interactive method	Extramarks	Oral Test Class Test

October	17	14	Sports medicine: concept and definition, aims and scope of sports medicine, impact of surface & environment on athletes, sports injuries; classification, causes, and prevention, management of injuries.	12	5	Lecture cum interactive method	Extramarks	Oral Test Class Test
			Biomechanics and sports : projectile and factors affecting projectile trajectory, angular and linear movements, work, power and energy, friction, mechanical analysis of walking and running	12	3	Lecture cum interactive method	Extramarks	Oral Test Class Test
November	18	15	Psychology and sports: understanding stress. Anxiety and its management, coping strategies, personality and its dimensions, motivation, self-esteem and body image, psychological benefits of exercise.	12	8	Lecture cum interactive method	Software like Extramarks	Oral Test Class Test
			Training in sports: strength, endurance, speed, Flexibility,-definition, types and methods coordinative abilities- definition and types	8	3	Lecture cum interactive method	Software like Extramarks	Oral Test Class Test

HISTORY

MONTH	NO OF DAYS	PERIOD AVAILABLE	TOPICS /SUBTOPICS TO BE COVERED	PERIODS REQUIRED	WEIGHTAGE	ACTIVITIES / PROCESSES	RESOURCES/ ICT	ASSESSMENT
March	18	27	<p>CHAPTER: BRICKS , BEADS AND BONES - THE HARAPPAN CIVILIZATION</p> <ol style="list-style-type: none"> 1.Archaeological report on Harappa-beginnings 2.Subsistence strategies 3.Mohenjodaro -A planned urban centre <ol style="list-style-type: none"> a.Drainage system b.Domestic architecture c.The citadel 4.Means of tracing social differences- <ol style="list-style-type: none"> a.Burials b.Looking for utilitarian and luxury goods 5.Craft production and identifying centres of production 6.Strategies for procuring materials- <ol style="list-style-type: none"> a.Materials from the subcontinent and beyond b.Contact with distant lands 7.Seals, scripts and weights 8.Political organization-Ancient authority 9.The end of the civilization-causes of decay and disappearance of the Harappan civilization 10.The story of discovery of Harappan civilization- <ol style="list-style-type: none"> a.Cunningham's confusion b.A new old civilization-Announcing the discovery of a new civilization to the world by John Marshall. 	12		<p>Activity 1. Visit any museum , especially the gallery that exhibits the items discovered from the sites of Harappan civilization and share your experience in the class.</p> <p>Activity 2 List the raw materials required for craft production in the harappan civilization and discuss how these might have been obtained.</p>	Extra marks, Text book . http://www.harappa.com/har/harres0.html	Pen paper test ; oral test ; class response; home assignment

			<p>c.New techniques and questions 11.Problems of piecing together the past- a.Classifying finds b.Problems of interpretation</p>					
April	18	27	<p>CHAPTER: KINGS,FARMERS AND TOWNS-EARLY STATES AND ECONOMIES-c 600 BCE-600 CE</p> <p>1.Broad overview 2.Sources of study 3.Developments in Indian epigraphy and work of James Prinsep 4.The earliest states a.The sixteen mahajanapadas b.Magadha as the most powerful mahajanapada Political and Economic history from the Mayryan to the Gupta period- 5.An early empire-The Mauryan empire a.Finding out about the Mauryas b.Administering the empire c.Importance of the empire 6.New notions of kingship a.Chiefs and kings in the south b.Divine kings -The Kushanas 7.The Gupta empire 8.A changing countryside- a.Popular perception of kings b.Strategies for increasing production c.Differences in rural society d.Land grants and new rural elites 9.Trade and commerce in the subcontinent and beyond- New cities, Urban population, Coins and kings 10.How are inscriptions deciphered? 11.Historical evidence from inscription 12.Limitations of inscripational evidence</p>	12		<p>Activity 1. Collect news papers for 10 days .Cut and paste all the statements made by government officials about public works. Note what the reports say about the resources required for such projects .Compare and contrast these with the evidence from inscriptions discussed in the chapter. What are the similarities and differences that you notice? Activity 2 Students will learn the Brahmi script and compare the same with the devnagri script.</p>	<p>Extra marks, Text book . http://projectso.uthasia.sdstate.edu/docs/index.html</p>	<p>Pen paper test ; oral test ; class response; home assignment</p>
April	18	27	<p>CHAPTER:KINGSHIP, CASTE AND CLASS-EARLY SOCIETIES-C 600 BCE -600 CE</p>	12		<p>Activity 1. Imagine that you are an author and re-write the story of</p>	<p>Extra marks, Text book . http://bombay.i</p>	<p>Pen paper test ; oral test ; class response; home</p>

			<p>1.Broad over view</p> <p>2.Textual traditions as sources to study history</p> <p>3.The critical edition of the Mahabharata</p> <p>4.Mahabharata-What does it tell about the institutions of Kinship, marriage, caste system and classes. The gotra of women , importance of mothers.</p> <p>5.Caste system and social differences- The right occupation, instances of non - kshtriyas becoming kings, jatis and social mobility, position of the people beyond the four varnas, Subordination of the untouchables and conflict</p> <p>6.Social implications of access to resources in certain cases- gendered access to property,varna and access to property; an alternative social scenario:sharing wealth</p> <p>7.Explaining social differences: a social contract</p> <p>8.Handling texts-Historians and the Mahabharata-language and content, author(s) and dates, the search for convergence</p> <p>9.A dynamic text</p>		<p>Ekalavya from a perspective of your choice and share the same in the class.</p> <p>Activity 2</p> <p>Read the excerpts from the Mahabharata included in this chapter.</p> <p>Discuss whether they could have been literally true.</p> <p>What do these excerpts tell us about those who composed the text ?</p> <p>What do they tell us about those who must have read or heard the epic?</p> <p>Activity 3</p> <p>Class will be divided into groups . Each group will interview minimum five people to find out -</p> <p>1.Whether the caste norms are still followed in the present Indian society through different institutions like marriage.</p> <p>2.Condition and status of women in different states of our country.</p> <p>3.A lehman's perception of Mahabharata</p> <p>Students will discuss the interviews in the class .</p>	<p>ndology.info/mahabharata/statement.html</p>	<p>assignment</p>
April -May	18	27	<p>CHAPTER: THINKERS ,BELIEFS AND BUILDINGS -CULTURAL DEVELOPMENTS(C.600 BCE-600 CE)</p> <p>1.Broad overview</p> <p>2.Sources of study</p> <p>3.Major religious developments in early India-sacrifices and debates</p> <p>4.Jainism-Beyond wordly pleasures -the message of Mahavira</p>	12	<p>Activity 1.</p> <p>Class will be divided into four groups and each group will find out the answer to the question assigned to them through observation -</p> <p>1.Of the religious traditions discussed in this chapter , is there any that is practised in your neighbourhood?</p>	<p>Extra marks, Text book . http://dsal.uchicago.edu/images/aiis/</p>	<p>Pen paper test ; oral test ; class response; home assignment</p>

			<p>5. Buddhism-The Buddha and quest for enlightenment- the teachings of the Buddha; the Buddhist sangha and rules for monks and nuns(followers of the Buddha).</p> <p>6. The stupa What do the stupas contain? Why were stupas built? How were stupas built? The structure of the stupa.</p> <p>7. Discovering stupas-Amravati stupa; Bharhut stupa; Sanchi stupa</p> <p>8. Role of Begums of Bhopal in the preservation of Sanchi stupa; Who built the Sanchi stupa?</p> <p>9. Sculpture-stories in the stone; symbols of worship; popular traditions</p> <p>10. New religious traditions- the development of Mahayan Buddhism; the growth of Puranic Hinduism; Building temples-features of early temples</p> <p>11. Can we 'see' everything?</p>		<p>2. What are the religious texts used today and how are they preserved and transmitted ?</p> <p>3. Are images used in worship ? If so are these similar to or different from those described in this chapter ?</p> <p>4. Describe the buildings used for religious activities today, comparing them with early stupas and temples?</p> <p>Activity 2 Discussion on how and why stupas were built?</p>		
May	14	21	<p>CHAPTER : THROUGH THE EYES OF TRAVELLERS -PERCEPTIONS OF SOCIETY (C. TENTH TO SEVENTEENTH CENTURY</p> <p>1. Broad overview</p> <p>2. Accounts of foreign travellers(Medieval India)</p> <p>a. Al -Biruni- From Khwarizm to Punjab; his work -The Kitab -Ul-Hind; Overcoming barriers to understanding; His description of the caste system;</p> <p>b. Ibn Batuta- An early globe trotter; The excitement of the unfamiliar-the coconut and pan ; Ibn Batuta and Indian cities; A unique system of communication;</p> <p>c. Francois Bernier-A doctor with a difference; comparing east and west</p>	12	<p>Activity 1. Pick any one of the travellers mentioned in this chapter and find out more about his life and writings. Also discuss in the class how he had described society in his writings.</p>	<p>Extra marks, Text book . www.edumaritime.org</p>	<p>Pen paper test ; oral test ; class response; home assignment</p>

			d.Bernier and the degenerate east- the question of landownership; a more complex social reality 3.Women slaves, sati and labourers					
May	14	21	<p>CHAPTER : BHAKTI –SUFİ TRADITIONS – CHANGES IN RELIGIOUS BELIEFS AND DEVOTIONAL TEXTS (C. EIGHTH TO EIGHTEENTH CENTURY)</p> <p>1.Broad overview 2.Textual traditions regarding religious beliefs/ Sources 3.Origin and meaning of Bhakti Movement 4. -The period from 8th to 18th centuries- a mosaic of religious beliefs and practices- the integration of cults; difference and conflict 5.Early traditions of Bhakti- poems of prayer 6.Bhakti movement in Southern India-The Alvars and Nayanars of Tamil Nadu; Attitude of the sects towards the castes; Women devotees; Relations with the state 7.The Lingayat sect –The Virashaiva traditions in Karnataka 8. Religious ferment in North India 9.Prominent Bhakti reformers in Northern India/New devotional paths dialogue and dissent in Northern India- a.Weaving a divine fabric : Kabir b.Baba Guru Nanak and the sacred word c.Mirabai, the devotee princess 10.New strands in the fabric-Islamic traditions- faiths of rulers and subjects; The popular practice of Islam; Name for communities 11.Meaning and growth of Sufism-</p>	12		<p>Activity 1. On an outline map of India plot three major sufi shrines and three places associated with temples.(one each of a form of Vishnu, Shiva and goddess). Activity 2 Class will be divided into four groups . Each group will be given one bhakti saint to find out more about their life and work. Students will also visit one temple situated in their neighbourhood and will interview the priest and 5 devotees to find out the developments and changes , if any, in the ways and thought processes of the lehmén in perceiving the meaning of bhakti. Their work will be discussed in the class. Activity 3 Find out more about practices of pilgrimage associated with the shrines mentioned in this chapter. Are these pilgrimages still undertaken? When are these shrines visited? Who visits these shrines? Why do they do so? What are the activities associated with these pilgrimages?</p>	<p>Extra marks, Text book . http//www.alif-India.com</p>	<p>Pen paper test ; oral test ; class response; home assignment</p>

			<p>Khanqahs and silsilas; Outside the khanqahs</p> <p>12.The Sufi orders</p> <p>13.The Chishti order of silsila in the subcontinent- life in the Chishti khanqah; Chishti devotionalism :Ziyarat and qawwali;</p> <p>Languages and communication; Sufis and the state</p> <p>14.Reconstructing histories of religious traditions</p>					
July	21	33	<p>CHAPTER: AN IMPERIAL CAPITAL VIJAYANAGARA (C. FOURTEENTH TO SIXTEENTH CENTURY)</p> <p>1.Broad overview</p> <p>2.Story of discovery-how Hampy was found</p> <p>3.The Vijayanagara-Rayas, Nayakas and Sultans – kings and trading class; the climax and decline of the Vijayanagara empire; the military chiefs of the Vijayanagara empire</p> <p>4.Vijayanagara- The capital and its environment- water resources; fortifications and roads; the urban core</p> <p>5.The king’s enclosure -the royal centre-the mahanavami dibba; other buildings in the royal centre</p> <p>6.The sacred centre – choosing a capital; Temple structures (Gopurams and mandapas)</p> <p>7.Plotting palaces, temples and bazaars</p> <p>8.A host of unanswered questions – need for more research</p>	11		<p>Activity 1. Class will be divided into four groups and each group will be asked to visit a religious building in their neighbourhood . Describe with sketches , its roofs , pillars and arches if any , corridors , passages, halls, entrance, water supply etc. Compare these features with those of the Virupaksha temple . Describe what each part of the building is used for . Find about about its history.</p> <p>Activity 2 Discussion on the significance of the rituals associated with the mahanavami dibba.</p>	Extra marks, Text book .	Pen paper test ; oral test ; class response; home assignment
July	21	33	<p>CHAPTER: PEASANTS, ZAMINDARS AND THE STATE- AGRARIAN SOCIETY AND THE MUGHAL EMPIRE (C.SIXTEENTH – SEVENTEENTH CENTURIES)</p>	12		<p>Activity 1. Discussion on – Role played by women in agricultural production in medieval India and in present India.</p>	Extra marks, Text book .	Pen paper test ; oral test ; class response; home assignment

			<p>1. Broad overview</p> <p>2. Sources of study</p> <p>3. Peasants and agricultural production – peasants and their landholdings; irrigation and technology; varieties of agricultural produce</p> <p>4. The village community- caste distinctions and the rural society; panchayats and headmen; position of artisans in village economy; medieval village ‘a little republic’</p> <p>5. Role of women in agrarian society</p> <p>6. Forests and tribes- beyond settled villages; inroads into forests</p> <p>7. The Zamindars</p> <p>8. Land revenue system</p> <p>9. The flow of silver</p> <p>10. The Ain –I- Akbari of Abu'l Fazl Allami</p> <p>11. Can we 'see' everything?</p>		<p>Activity 2</p> <p>Discussion on role played by Zamindars in Mughal India and modern India.</p>		
July-August	21	33	<p>CHAPTER: KINGS AND CHRONICLES: THE MUGHAL COURTS (C.16TH -17TH CENTURIES)</p> <p>1. Broad overview</p> <p>2. Outline of political history C.15th to 17th centuries (The Mughal emperors and their empire)</p> <p>3. The production of chronicles: Distinctive features of Mughal chronicles</p> <p>a. From Turkish to Persian</p> <p>b. Process of making of the manuscripts</p> <p>4. Painting: The painted image</p> <p>5. The Akbar Nama and the Badshah Nama</p> <p>6. The ideal kingdom: Mughal theory of kingship</p> <p>a. Divine theory of kingship</p> <p>b. Transmission of the idea of the theory</p>	12	<p>Activity 1.</p> <p>Collect various information regarding the provincial administration of the Mughals. Compare it with the present day system of governance in the states.</p> <p>Activity 2</p> <p>A discussion will be held on the topic-the distinctive features of Mughal chronicles.</p>	<p>Extra marks, Text book . www.mughalgardens.org</p>	<p>Pen paper test ; oral test ; class response; home assignment</p>

			<p>of Divine kingship through paintings c.Following the policy of Sulh-i-Kul d.Taking sovereignty as social contract 7.Capitals and courts a.Capital cities b.The Mughal courts: Daily activities and functions-imperial throne, court rules - etiquettes, forms of salutation, jharokha darshan, administrative activities, festivals and celebrations c.Titles and gifts 8.The imperial household: Role of the women 9.Mughal administration: The imperial officials a.Recruitment and rank b.Information and empire c.Beyond the centre: provincial administration 10.Beyond the frontiers: Relations with other countries a.The Safavids and Qandahar b.The Ottomans : Pilgrimage and trade c.Jesuits and the Mughal court 11.Questioning formal religion</p>				
August	20	32	<p>CHAPTER: COLONIALISM AND THE COUNTRYSIDE-EXPLORING OFFICIAL ARCHIVES</p> <p>1.Broad overview 2.Early agricultural policy of the British Administration: Bengal and the Zamindars a.An auction in Burdwan b.The problem of unpaid revenue c.Why Zamindars defaulted on payments? d.Rise of the jotedars: Jotedar a powerful figure in Rural Bengal e.Resistance by the Zamindars: Retaining</p>	12	<p>Activity 1. The students will be asked to talk to the older people within a rural community and if possible, visit the fields they now cultivate . Find out what they cultivate , how they earn their livelihoods, what their parents did , what their sons and daughters do now and how their lives have changed over the last few years. Students will discuss their findings in the class.</p>	<p>Extra marks, Text book .</p>	<p>Pen paper test ; oral test ; class response; home assignment</p>

			<p>control over zamindars</p> <p>f.Ferminger's fifth report</p> <p>3.The Paharias and the Santhals: The Hoe and the Plough</p> <p>a.In the hills of Rajmahal- the lifestyle of the Paharias, relations with the settled agriculturists, arrival of outsiders in Paharia regions, reaction of the Paharias, impact of the arrival of the Santhals on paharias.</p> <p>b.The Santhals :pioneer settlers- demarcation of Damin-i-koh, increase in the santhal settlements, the santhal revolt.</p> <p>c.The accounts of Buchanan</p> <p>4.A revolt in the countryside-Deccan revolt : the peasant revolts</p> <p>a.Account books are burnt</p> <p>b.A new revenue system</p> <p>c.Revenue demand and peasant debt</p> <p>d.The cotton boom</p> <p>e.Credit dries up- non availability of loans</p> <p>f.The experience of injustice</p> <p>5.The Deccan riots commission</p>					
Aug ust- Sept embe r	20+7	32	<p>CHAPTER:REBELS AND THE RAJ: THE REVOLT OF 1857 AND ITS REPRESENTATIONS</p> <p>1.Broad over view</p> <p>2.Pattern of the rebellion</p> <p>a.How the mutinies began</p> <p>b.Lines of communication-planning and co-ordination</p> <p>c.Leaders and followers of the revolt</p> <p>d.Rumours and prophecies</p> <p>e.Why did people believe in the rumours?</p> <p>3.Awadh in revolt</p> <p>a.'A cherry that will drop into our mouth one day"</p>	12		<p>Activity 1.</p> <p>Watch a movie based on the revolt of 1857 and write about the way it represents the revolt. How does it depict the British, the rebels and those who remained loyal to the British? What does it say about peasants, city dwellers, tribals , zamindars taluqdar? Students will discuss their observations in the class.</p>	<p>Extra marks, Text book http//books.google.com</p>	<p>Pen paper test ; oral test ; class response; home assignment</p>

			<p>b.'The life was gone out of the body' c.Firangi raj and the end of a world' 4.What the rebels wanted a.The vision of unity b.Against the symbols of oppression c.The search for alternative power 5.Repression 6.Images of the revolt: Information from visual representations a.Praising the saviours b.English women and the honour of Britain c.Revenge and retribution d.The performance of terror e.No time for clemency f.Nationalist imageries</p>				
October	17	27	<p>CHAPTER: COLONIAL CITIES :URBANISATION, PLANNING AND ARCHITECTURE</p> <p>1.Broad overview 2.Towns and cities in pre - colonial times a.Features of the towns : Difference from the rural areas b.Close relationship between the towns and the villages c.Medieval cities: Cities of North and Southe India d.Changing nature of the cities in the eighteenth century 3.Finding out about colonial cities a.Colonial records and urban history b.Trends of change 4. Nature of the new towns a.Ports, forts and centre of services b.A new urban milieu: emergence of new public places c.The first hill stations d.Social life in the new cities 5.Segregation, town planning and</p>	12	<p>Activity 1. Class will be divided into five groups and each group will be asked to choose any one type of building in their town. Each group will find out when the building was built? How it was planned? How resources were obtained for its construction and how long it took to be built ? What do the architectural features of the buildings express?</p>	<p>Extra marks, Text book . http://dsal.uchicago.edu/images/aiis/</p>	<p>Pen paper test ; oral test ; class response; home assignment</p>

			<p>architecture</p> <p>a.Settlement and segregation in Madras</p> <p>b.Town planning in Calcutta</p> <p>c.Architecture in Bombay</p> <p>6.Significance of the buildings and the architectural styles</p>					
October	17	27	<p>CHAPTER : MAHATMA GANDHI AND NATIONALIST MOVEMENT - CIVIL DISOBEDIENCE AND BEYOND</p> <p>1.Broad overview</p> <p>2.A leader announces himself-emergence of Mahatma Gandhi</p> <p>3.The making and unmaking of non co-operation</p> <p>a.Knitting a popular movement</p> <p>b.A people's leader</p> <p>4.The Salt satyagraha - A case study</p> <p>a.Dandi March</p> <p>b.Dialogues: Significance of the salt marchh</p> <p>5.The last heroic days</p> <p>6.Knowing Gandhi</p> <p>a.Public voice and private scripts</p> <p>b.Framing a picture</p> <p>c.Through police eyes</p> <p>d.From news papers</p>	12		<p>Activity 1.</p> <p>Choose any one event that took place during the national movement. Try and read the letters and speeches of the leaders of the time. He could be a local leader. Find out how the local leaders viewed the activities of the national leadership at the top. Discuss the findings in the class.</p> <p>Activity 2</p> <p>Discuss the letters given in the chapter and answer-</p> <p>a.What do they tell us about the way Congress ideals developed over time?</p> <p>b.What do they reveal about the role of Mahatma Gandhi within the national movement?</p> <p>c.Do such letters give us any special insight into the working of the Congress and into the nature of the national movement?</p>	<p>Extra marks, Text book .</p> <p>http://www.gandhiserve.org/cwmg/cwmg.html</p>	<p>Pen paper test ; oral test ; class response; home assignment</p>
November	22	34	<p>CHAPTER : UNDERSTANDING PARTITION : POLITICS, MEMORIES , EXPERIENCES</p> <p>1.Broad overview</p> <p>2. Some experiences of partition</p> <p>3.A momentous marker</p> <p>a.Partition or holocaust</p> <p>b.The power of stereotypes</p> <p>4.Why partition : Responsible circumstances and causes</p> <p>a.Culminating point of a long</p>	12		<p>Activity 1.</p> <p>Students will be asked to watch any movie based on partition and discuss the same in the class.</p> <p>Activity 2</p> <p>Find out about the ethnic violence that led to the partition of Yugoslavia. Compare your findings with what you have read about Partition in this chapter.</p>	<p>Extra marks, Text book .</p>	<p>Pen paper test ; oral test ; class response; home assignment</p>

			<p>history?/Poison of communalism</p> <p>b.The provincial elections of 1937 and the congress ministries</p> <p>c.The Pakistan resolution</p> <p>d.The suddenness of partition</p> <p>e.Post-war developments</p> <p>f.A possible alternative to partition</p> <p>g.Towards partition</p> <p>5.The withdrawal of law and order</p> <p>a.The one -man army</p> <p>6.Gendering partition/Partition and the women: Experiences of the women</p> <p>a.Recovering women</p> <p>b.Preserving honour</p> <p>7.Regional variations</p> <p>8.Help, humanity, harmony</p> <p>9.History and oral testimonies : Merits and demerits</p>				
November	22	34	<p>CHAPTER: FRAMING THE CONSTITUTION : THE BEGINNING OF A NEW ERA</p> <p>1.Broad overview</p> <p>2. A tumultuous time</p> <p>a.Problem of communal riots</p> <p>b.The making of the constituent assembly</p> <p>c.The dominant voices</p> <p>3.The will of the people</p> <p>4.Defining rights</p> <p>a.The problem with separate electorates</p> <p>b.'We will need much more than this resolution'</p> <p>c.'We were suppressed for thousand of years'</p> <p>5.The powers of the states</p> <p>a.'The centre is likely to break'</p> <p>b.'What we want today is a strong government'</p> <p>6.The language of the nation</p> <p>a.A plea for Hindi</p> <p>b.The fear of domination</p>	11	<p>Activity 1.</p> <p>Discuss- What different arguments were put forward by those advocating a strong centre?</p> <p>Activity 2</p> <p>Choose any one important constitutional change happened in recent years. Find out why the change was made, what different arguments were put forward for the change and the historical background to the change.</p>	<p>Extra marks, Text book . parliamentofindia.nic.in/Is/debates/debates.htm</p>	<p>Pen paper test ; oral test ; class response; home assignment</p>

MONTH	NO. OF DAYS	PERIOD AVAILABLE	TOPIC/ SUBTOPICS TO BE COVERED	PERIODS REQUIRED	WEIGHTAGE	ACTIVITIES/ PROCESSES	RESOURCES/ ICT	ASSESSMENT
March	18	18	Part A: Contemporary World Politics <ul style="list-style-type: none"> • Cuban Missile Crises • What is cold war? • Emergence of two power blocs • Arenas of cold war • Challenge to Bipolarity • New International Economic Order • India and the Cold war 	6	14	Explanation of the lesson sub-topic wise using smart class & discussions. Explanation in the form of flow-chart method on white board.	Smart class	Mid-Sem 1
March	18	18	The End of Bipolarity <ul style="list-style-type: none"> • What was the soviet system? • Gorbachev and the Disintegration • Why did the Soviet union disintegrate? • Consequences of Disintegration • Shock Therapy • Consequences of shock therapy • Tensions and conflicts • India and Post-Communist countries 	8		Explanation in the form of flow chart .	Smart class	Mid-Sem 1
March	18	18	US Hegemony in World Politics <ul style="list-style-type: none"> • Beginning of the New World Order • Clinton Years • 9/11 attack • Iraq Invasion • What does Hegemony mean? • Hegemony as Hard, Structural & Soft Power 	8	16	Lecture method will be followed. Some illustrations will be explained through flow-chart method & with examples.	Smart class Writing board	Mid-Sem 1

			<ul style="list-style-type: none"> • Constraints on American Power • India's Relationship with US • How can Hegemony be overcome? 					
April	18	18	<p>Alternative Centres of Power</p> <ul style="list-style-type: none"> • European Union • ASEAN • Rise of the Chinese Economy • India-China Relations 	6		Explanation of the lesson sub-topic wise using smart class & discussions.	Smart class	Mid-Sem 1
April	18	18	<p>Contemporary South Asia</p> <ul style="list-style-type: none"> • What is South Asia? • Military and Democracy in Pakistan • Democracy in Bangladesh • Monarchy and democracy in Nepal • Ethnic Conflict and Democracy in Sri Lanka • India-Pakistan Conflicts • India and its other Neighbours • Peace and Cooperation 	7		Lecture method will be followed. Some illustrations will be explained through flow-chart method & with examples.	Smart class/white board	Class test
April	18	18	<p>International Organisations</p> <ul style="list-style-type: none"> • Why International Organisations? • Evolution of the UN • Reform of the UN • Reform of Structures and Processes • Jurisdiction of the UN • India and the UN Reforms • UN in a unipolar world 	6	10	Explanation followed by discussions in the class.	Smart class	Periodic test
May	16	16	<p>Security in the Contemporary World</p> <ul style="list-style-type: none"> • What is security? • Traditional Notions: External/Internal • Traditional Security and Cooperation • Non-Traditional Notions • New Sources Of Threats • India's Security Strategy 	8		Explanation in the form of flow chart method.	Smart class/white board	Class tests

May	16	16	<p>Environment and Natural Resources</p> <ul style="list-style-type: none"> • Environmental Concerns in Global Politics • The Protection of Global Commons • Common But Differentiated Responsibility • Common Property Resources • India's Stand on Environmental Issues • Environmental Movements: One or Many? • Resource Geopolitics • The Indigenous Peoples and Their Rights 	8	10	Discussion & peer group teaching	Smart class/board/charts	Class tests
July	20	20	<p>Globalisation</p> <ul style="list-style-type: none"> • The Concept of Globalisation • Causes of Globalisation • Political Consequences • Economic Consequences • Cultural Consequences • India and Globalisation • Resistance to Globalisation • India and Resistance to Globalisation 	7		Explanation & Group discussions.	Smart class/white board	Sem 1(entire Part A)
July	20	20	<p>Part B : Politics in India since Independence</p> <p>Challenges of Nation Building</p> <ul style="list-style-type: none"> • Partition: displacement and rehabilitation • Integration of Princely States • Reorganisation of states 	7	16	Explanation through smart class.	Smart class	Mid-Sem 1 (Part
July	20	20	Era of One Party Dominance	4		Explanation and lecture method will	Smart class	Mid-Sem2

			<ul style="list-style-type: none"> • Challenge of building Democracy • Congress dominance in the first 3 general elections • Congress as social and ideological coalition • Emergence of opposition parties 			be followed.		
August	22	22	Politics of Planned Development <ul style="list-style-type: none"> • The Early Initiatives • Key Controversies • Major outcomes 	6		Explanation and lecture method will be followed.	Smart class	Mid-Sem2
August September	22 4	22 4	India's External Relations <ul style="list-style-type: none"> • International context • Policy of non-alignment • Peace and conflict with China • Wars and Peace with Pakistan • India's Nuclear Policy 	7	6	Explanation with the help of flow-chart method.	Smart class	Mid-Sem 2
October	17	17	Challenges to and Restoration of the Congress system <ul style="list-style-type: none"> • Challenge of political succession • Fourth General Election, 1967 • Split in the Congress • The 1971 election and Restoration of Congress 	8	12	Explanation with the help of examples.	Smart class	Class test
October	17	17	Crisis of Democratic Order <ul style="list-style-type: none"> • Background to Emergency • Declaration of Emergency • Controversies regarding emergency • Politics after Emergency 	7		Explanation with the help of examples .	Smart class/white board	Class test
October	17	17	Rise of Popular Movements <ul style="list-style-type: none"> • Nature of popular movements • Dalit Panthers • Bharatiya Kisan Union 	8	16	Explanation with the help of examples from daily life experiences.	Smart class	Periodic Test

			<ul style="list-style-type: none"> • Anti-Arrack Movement • Narmada Bachao Andolan • Lessons from popular movements 					
November	22	22	<p>Regional Aspirations</p> <ul style="list-style-type: none"> • Region and the Nation • Jammu and Kashmir • Punjab • The North-East • Accomodation and National Integration 	8		Explanation & group discussions	Smart class	
November	22	22	<p>Recent Developments in Indian Politics</p> <ul style="list-style-type: none"> • Context of the 1990s • Era of Coalitions • Communalism, secularism, democracy • Emergence of a new consensus 	7		Explanation and lecture method will be followed.	Smart class	Pre-Board(Entire

GEOGRAPHY

MONTH	NO. OF DAYS	PERIOD AVAILABLE	TOPICS/ SUB TOPICS TO BE COVERED	PERIODS REQUIRED	ACTIVITIES/ PROCESSES	RESOURCES/ ICT	ASSESSMENT
MARCH	18	18	PART A: UNIT 1/ CH 1: HUMAN GEOGRAPHY-NATURE AND SCOPE: <ul style="list-style-type: none"> • Nature of Human Geography • Naturalisation of Humans (Environmental Determinism) • Humanisation of Man (Possibilism) • Through Corridor of time • Fields and Sub fields 	3	Discussion, Lecture Students' participation with real life examples Debate on the positive and negative aspects of Technology	NCERT text books Question bank Extramarks	Class response, Home Assignments Mid Semester 1 Semester 1 Preboard
MARCH	18	18	PART A: UNIT II/ CH 2: THE WORLD POPULATION: Distribution, Density and growth <ul style="list-style-type: none"> • Patterns of Population Distribution • Density of population • Factors influencing distribution • Components of population change • Trends in population growth • Demographic transition 	4	Discussion, Lecture Students' participation Understanding through documentaries on the topic, Enumerate some of the unpleasant aspects of city life.	NCERT text books Question bank Extramarks World Maps on Population Distribution, https://www.youtube.com/watch?v=VcSX4ytEfcE	Class response, Home Assignments Mid Semester 1 Semester I Preboard
MARCH	18	18	PART A: UNIT II/ CH 3: POPULATION COMPOSITION <ul style="list-style-type: none"> • Sex Composition • Age Structure • Rural Urban Composition 	4	Discussion, Lecture Students' participation	NCERT text books Question bank Extramarks	Class response, Home Assignments Mid Semester 1

					To draw a population pyramid of the children in your school and describe its characteristics	https://www.youtube.com/watch?v=OpOEHjndywk	Semester I Preboard
MARCH	18	18	<p>PART A: UNIT 1/ CH 4: HUMAN DEVELOPMENT;</p> <ul style="list-style-type: none"> • Growth and Development • Four Pillars of Human Development • Measuring Human Development • International Comparison 	4	<p>Discussion, Lecture</p> <p>Students' participation</p> <p>Role play to understand 'meaningful life' from various strata of society</p>	<p>NCERT text books</p> <p>Question bank</p> <p>Extramarks</p> <p>Recent data of human development worldwide</p>	<p>Class response, Home Assignments</p> <p>Mid Semester 1</p> <p>Semester I Preboard</p>
MARCH	18	18	<p>PART II: CH 1: DATA- ITS SOURCE AND COMPILATION</p> <ul style="list-style-type: none"> • Sources of Data: <ul style="list-style-type: none"> ➤ Sources of Primary data ➤ Secondary sources of data ➤ Data Compilation and Presentation (inclusive and Exclusive, Frequency Polygon, Ogive) 	2	<p>Prepare a questionnaire for a sample survey.</p> <p>Prepare a frequency polygon with the given data.</p>	<p>NCERT text books</p> <p>Reference book</p>	<p>Class Response</p> <p>Practical file work</p> <p>Viva</p> <p>Semester 1 Preboard</p>
APRIL	18	18	<p>PART B: UNIT I/ CH 1: POPULATION: DISTRIBUTION, DENSITY, GROWTH AND COMPOSITION:</p> <ul style="list-style-type: none"> • Distribution of Population • Density of population • Growth of population • Population Composition 	4	<p>Discussion, Lecture</p> <p>Students' participation</p> <p>Understanding through documentaries</p>	<p>NCERT text books</p> <p>Question bank</p> <p>Extramarks</p> <p>India Maps on population distribution</p>	<p>Map work</p> <p>Home assignments</p> <p>Class response, Mid Semester 1 Semester I</p>

					Students' participation		Preboard
APRIL	18	18	<p>PART B: UNIT I/ CH 2 MIGRATION:</p> <ul style="list-style-type: none"> • Indian Diaspora • Streams of migration • Causes of migration • Consequences of migration 	5	<p>Discussion, Lecture Students' participation Understanding through case studies</p>	<p>NCERT text books Question bank Extramarks , Statistics on migration in India</p>	<p>Class response, Map work Home Assignments Mid Semester 1 Semester I Preboard</p>
APRIL	18	18	<p>PART B: UNIT I/ CH 3 HUMAN DEVELOPMENT;</p> <ul style="list-style-type: none"> • Human Development in India • Indicators of economic attainment • Indicators of healthy life • Indicators of social Empowerment • Human development index in India • Population, Environment & Development 	5	<p>Discussion, Lecture method Students' participation Students' participation with real life examples</p>	<p>NCERT text books Question bank Extramarks Recent data of human development worldwide</p>	<p>Class response, Map work Home assignments Mid Semester 1 Semester I Preboard</p>
APRIL	18	18	<p>PART B: UNIT II/ CH 4 Human Settlements:</p> <ul style="list-style-type: none"> • Types of rural settlements • Evolution of towns • Classification of towns 	4	<p>Discussion, Map work Students' participation</p>	<p>NCERT text books Question bank Extramarks India Maps on settlements, Topographical sheet 63k/12</p>	<p>Class response, Map work on identification of Indian towns Home assignments Mid Semester 1 Semester I Preboard</p>
MAY	14	17	<p>PART A: UNIT III/ CH 5: PRIMARY ACTIVITIES:</p> <ul style="list-style-type: none"> • Hunting and Gathering 	4	<p>Discussion, Lecture method</p>	<p>NCERT text books</p>	<p>Class response, Map work</p>

			<ul style="list-style-type: none"> • Pastoralism <ul style="list-style-type: none"> ➤ Nomadic Herding ➤ Commercial Livestock Rearing • Agriculture <ul style="list-style-type: none"> ➤ Primitive Subsistence Agriculture ➤ Intensive Subsistence Agriculture ➤ Plantation Agriculture ➤ Extensive Commercial Grain Cultivation ➤ Mixed Farming ➤ Dairy Farming ➤ Mediterranean Agriculture ➤ Market Gardening & Horticulture ➤ Co-operative farming ➤ Collective Farming • Mining 		<p>Map work</p> <p>Students divided in groups research to understand that why a particular type of farming has evolved in a given region.</p>	<p>Question bank</p> <p>Extramarks</p> <p>World Maps showing types of farming</p> <p>https://www.youtube.com/watch?v=kb4PlzuQTlg</p> <p>Videos on type of farming & mining</p>	<p>Home assignments</p> <p>Mid Semester 1</p> <p>Semester I</p> <p>Preboard</p>
MAY	14	17	<p>PART A: UNIT III/ CH 6: SECONDARY ACTIVITIES:</p> <ul style="list-style-type: none"> • Characteristics of Modern Large Scale Manufacturing • Classification of Manufacturing Manufacturing <ul style="list-style-type: none"> ➤ Industries based on Size ➤ Industries based on Inputs/Raw Materials ➤ Industries based on Ownership • Traditional large -Scale Industrial Region • Concept of High Technology Industry • Iron and Steel Industry • Cotton Textile Industry 	4	<p>Discussion,</p> <p>Lecture method</p> <p>Map work</p> <p>Students carry out a survey in the school premises of the factory-made goods used. Categorise them under size/input/ownership.</p>	<p>NCERT text books</p> <p>Question bank</p> <p>Extramarks</p> <p>Documentaries on 'How a large Scale Modern Industry works'.</p>	<p>Class response,</p> <p>Map work</p> <p>Home assignments</p> <p>Mid Semester 1</p> <p>Semester I</p> <p>Preboard</p>
MAY	14	17	<p>PART II: CH 3: (Practical)</p> <ul style="list-style-type: none"> • Graphical Representation of Data: <ul style="list-style-type: none"> ➤ Line Graph ➤ Polygraph ➤ Bar graph ➤ Line and Bar graph ➤ Multiple and Compound bar graph ➤ Pie Chart ➤ FlowChart • Thematic maps 	6	<p>Discussion,</p> <p>To construct the various graphical representation with the given data.</p> <p>To construct the thematic maps with the given data.</p>	<p>NCERT text books</p> <p>Reference books</p>	<p>Class Response</p> <p>Practical file work</p> <p>Viva</p> <p>Semester 1</p> <p>Preboard</p>

			<ul style="list-style-type: none"> ➤ Dot Maps ➤ Choropleth Maps ➤ Isopleth Maps 				
MAY	14	17	<p>PART II: CH 5: Field Survey: (Practical)</p> <ul style="list-style-type: none"> • Field Survey procedure • Field Survey: Case Study 	3	<p>Design a field survey on Poverty.</p> <p>To be done based on interview, research and individually.</p>	<p>NCERT text books</p> <p>Reference books</p> <p>Primary sources of data</p>	<p>Class Response</p> <p>Practical file work</p> <p>Viva</p> <p>Semester 1 Preboard</p>
JULY	21	24	<p>PART A: UNIT III/ CH 7: TERTIARY AND QUATERNARY ACTIVITIES:</p> <ul style="list-style-type: none"> • Types of Tertiary Activities <ul style="list-style-type: none"> ➤ Trade and Commerce ➤ Retail Trading ➤ Wholesale Trading • Transport <ul style="list-style-type: none"> ➤ Factors Affecting Transport • Communication • Services • People engaged in Tertiary Activities • Some Selected Examples <ul style="list-style-type: none"> ➤ Tourism ➤ Factors affecting Tourism ➤ Tourist Attraction ➤ Medical Services for Overseas patients in India • Quarternary Activities • Quinary Activities • Digital Divide 	5	<p>Discussion,</p> <p>Lecture method</p> <p>Students' participation</p> <p>If you are a tourist guide/hotel manager: find out the factors that affect the tourist inflow of any particular region.</p>	<p>NCERT text books</p> <p>Question bank</p> <p>Extramarks,</p> <p>Documentaries on 'How outsourcing is done?'</p>	<p>Class response,</p> <p>Map work</p> <p>Home assignments</p> <p>Semester I</p> <p>Semester II</p> <p>Preboard</p>
JULY	21	24	<p>PART A: UNIT III/ CH 8: TRANSPORT AND COMMUNICATION:</p> <ul style="list-style-type: none"> • Modes of Transportation • Land transport <ul style="list-style-type: none"> ➤ Roads ➤ Highways ,Boarder Roads ➤ Railways 	5	<p>Discussion,</p> <p>Lecture method</p> <p>Students' participation</p>	<p>NCERT text books</p> <p>Question bank</p> <p>Extramarks,</p>	<p>Class response,</p> <p>Map work</p> <p>Home assignments</p>

			<ul style="list-style-type: none"> ➤ Trans- Continental Railways • Water Transport <ul style="list-style-type: none"> ➤ Important Sea Routes ➤ Shipping Canals ➤ Inland Waterways (Rhine, Danube The Volga, The Mississippi) • Air Transport • Pipelines • Communication 		Students interview people concerned with any modes of transport to know the short comings in each field. Map Work	Videos on 'How do the Suez Canal / Rhine Water Way work. Documentaries on the making of the Trans Canadian waterway'	Semester I Semester II Preboard
JULY	21	24	<p>PART A: UNIT III/ CH 9: INTERNATIONAL TRADE:</p> <ul style="list-style-type: none"> • History of International Trade • Why does International Trade exist? • Basis of International Trade • Important Aspects of International Trade: <ul style="list-style-type: none"> ➤ Volume of Trade ➤ Composition of trade ➤ Direction of trade • Balance of trade • Types of International Trade • Case for For Trade • World Trade Organisation • Concern Related to Internationa;l Trade • Gateways of International Trade <ul style="list-style-type: none"> ➤ Ports ➤ Types of Ports 	4	Discussion, Lecture method Students' participation Debate on the Case of Free Trade Map Work	NCERT text books Question bank Extramarks, Documentaries on the condition of Slave Trade. Extramarks	Class response, Map work Home assignments Semester I Semester II Preboard
JULY	21	24	<p>PART A: UNIT IV/ CH 10: HUMAN SETTLEMENTS:</p> <ul style="list-style-type: none"> • Rural Urban Dichotomy • Types and pattern of Settlements • Rural Settlements <ul style="list-style-type: none"> ➤ Factors Affecting Location ➤ Rural Settlement Pattern ➤ Problems of rural Settlements • Urban Settlements <ul style="list-style-type: none"> ➤ Classification of Urban Settlements ➤ Functions of Urban Centres 	4	Discussion, Lecture method Students' participation To prepare a list of cities where earlier functions have replaced by a new	NCERT text books Question bank Extramarks India Maps on population distribution	Class response, Map work Home assignments Semester I Semester II

			<ul style="list-style-type: none"> ➤ Classification of towns on the Basis of Forms ➤ Types of Urban Settlements ➤ Problems of Human Settlements in Developing Countries 		one. To identify the rural settlement pattern on topographical sheet 63k/12	Topographical Sheet 63k/12	Preboard
JULY	21	24	PART II: CH 2: (practical) Data Processing <ul style="list-style-type: none"> • Measures of Central Tendency <ul style="list-style-type: none"> ➤ Mean, Median, Mode • Measures of Dispersion 	6	Discussion, Students' participation To find out the mean, median and mode of the given data	NCERT text books Reference books	Class Response Practical file work Viva Semester 1 Preboard
AUGUST	20	23	PART B: UNIT III/ CH 5: LAND RESOURCES AND AGRICULTURE : <ul style="list-style-type: none"> • Land Use Categories • Land Use Changes in India • Common Property Resources • Agricultural land Use in India • Cropping Seasons in India • Types of Farming • Food grains <ul style="list-style-type: none"> ➤ Cereals: Rice, Wheat, Jowar, Bajra. Maize, Pulses, gram, ➤ Oilseeds ➤ Fibre Crops: Cotton, jute ➤ Other Crops : Sugarcane, Tea, Coffee • Agriculture Development in India <ul style="list-style-type: none"> ➤ Strategy of Development ➤ Growth of Agricultural Output and Technology • Problems of Indian Agriculture 	6	Discussion, Lecture method Students' participation Prepare a list of agricultural problems in your area. Compare with the problems enlisted in the text. Map work	NCERT text books Question bank Extramarks,	Class response, Map work Home assignments Semester I Semester II Preboard
AUGUST	20	23	PART B: UNIT III/ CH 6: Water Resources: <ul style="list-style-type: none"> • Water Resources of India <ul style="list-style-type: none"> ➤ Surface Water Resources ➤ Groundwater Resources 	5	Discussion, Lecture method Students' participation	NCERT text books Question bank Extramarks	Class response, Map work Home assignments

			<ul style="list-style-type: none"> • Water Demand asnd Utilisation • Demand for irrigation • Emerging water problems • Water conservation and management • Prevention of Water pollution • Recycle and Reuse of water • Watershed management • Rainwater Harvesting. • Highlights of India's National Water Policy,2002 		Discuss the impact on agriculture due to intensive irrigation leading to increasing salinity.		Semester I Semester II Preboard
AUGUST	20	23	<p>PART B: UNIT III/ CH 7: MINERAL AND ENERGY RESOURCES:</p> <ul style="list-style-type: none"> • Types of Mineral Resources • Distribution of Minerals in India <ul style="list-style-type: none"> ➤ The North-Eastern Plateau Region ➤ The South-Eastern Plateau Region ➤ The North-Western Region • Ferrous Mineral <ul style="list-style-type: none"> ➤ Iron ore, Manganese • Non –Ferrous Minerals <ul style="list-style-type: none"> ➤ Bauxite, Copper • Non-Metallic Minerals <ul style="list-style-type: none"> ➤ Mica • Energy Resources <ul style="list-style-type: none"> ➤ Coal, Petroleum, Natural Gas, • Non- Conventional Energy Resources <ul style="list-style-type: none"> ➤ Nuclear, Solar, Wind, Tidal, Geothermal, Bio-energy • Conservation of Mineral Resources 	6	<p>Discussion, Lecture method Students' participation Map Work To research on the present condition of Solar , Wind and Geothermal sources of Energy in India.</p>	<p>NCERT text books Question bank Extramarks</p>	<p>Class response, Map work Home assignments Semester I Semester II Preboard</p>
AUGUST	20	23	<p>PART B: UNIT III/ CH 8: MANUFACTURING INDUSTRIES:</p> <ul style="list-style-type: none"> • Location of industries • Major Industries: <ul style="list-style-type: none"> ➤ The Iron and Steel Industries ➤ TISCO, IISCO, VISL, Rourkela, Bhilai, Durgapur, Bokaro ➤ The Cotton Textile Industry ➤ Sugar Industry ➤ Petrochemical Industry 	6	<p>Discussion, Lecture method Students' participation Map Work</p>	<p>NCERT text books Question bank Extramarks Loacation Map of all the mentioned Iron</p>	<p>Class response, Map work Home assignments Semester I Semester II</p>

			<ul style="list-style-type: none"> ➤ Knowledge based Industry ➤ Industrial policy ➤ Industrial regions <ul style="list-style-type: none"> ▪ Mumbai-Pune Industrial region ▪ Hugli Industrial region ▪ Bangalore-Chennai Industrial region ▪ Gujarat Industrial region ▪ Chotanagpur region ▪ Gurgaon- Delhi-Meerut ▪ Kollam-Thiruvananthapuram 			and steel industries	Preboard
SEPTEMBER		7	REVISION	5			
OCTOBER	17	21	<p>PART B: UNIT III/ CH 9: PLANNING AND SUSTAINABLE DEVELOPMENT IN INDIAN CONTEXT:</p> <ul style="list-style-type: none"> • Target Area Planning • Hill Area Development Programme • Drought prone Area programme • Case Study – Integrated Tribal Development Project In Bharmaur Region • Sustainable Development • Case Study: Indira Gandhi Canal (Nahar) Command Area • Measures for Promotion of Sustainable Development 	5	<p>Discussion, Lecture method Students’ participation Map Work</p> <p>To find out the area development programmes being implemented in your region. Assess the impact of such programmes on the society and economy on your locality.</p>	<p>NCERT text books Question bank Extramarks</p>	<p>Class response, Map work Home assignments Semester II Preboard</p>
OCTOBER	17	21	<p>PART B: UNIT III/ CH 10: TRANSPORT AND COMMUNICATION:</p> <ul style="list-style-type: none"> • Modes of Transportation • Land transport <ul style="list-style-type: none"> ➤ Roads ➤ National Highways ,State Highways, District Roads,Boarder Roads ➤ Railways • Water Transport 	5	<p>Discussion, Lecture method Students’ participation Map Work</p>	<p>NCERT text books Question bank Extramarks</p>	<p>Class response, Map work Home assignments Semester II</p>

			<ul style="list-style-type: none"> ➤ Inland Waterways ➤ Oceanic Routes • Air Transport <ul style="list-style-type: none"> ➤ Air India • Oil and Gas Pipelines • Communication Networks 		Find out the facilities that Indian Railways provide to the passengers.		Preboard
OCTOBER	17	21	<p>PART II: CH 4: (Practical) Use of Computers in Data Processing and mapping:</p> <ul style="list-style-type: none"> • Hardware Configuration and software requirements • Computer Software for your use <ul style="list-style-type: none"> ➤ MS Excel or Spreadsheet ➤ Data processing and Computation <p>Construction of Graphs</p>	4	<p>Discussion, Students' participation</p> <p>Represent the data data given using a suitable technique with the help of a computer and analyse the graph.</p>	<p>NCERT text books</p> <p>Reference books</p>	<p>Class Response</p> <p>Practical file work</p> <p>Viva</p> <p>Semester II</p> <p>Preboard</p>
NOVEMBER	19	21	<p>PART B: UNIT IV/ CH 11: INTERNATIONAL TRADE:</p> <ul style="list-style-type: none"> • Changing Pattern of the Composition of India's trade • Direction of trade • Sea Ports as Gateways of International Trade <ul style="list-style-type: none"> ➤ Kandla Port ➤ Mumbai Port ➤ Marmagao Port ➤ New Mangalore Port ➤ Kochchi Port ➤ Kolkata Port ➤ Haldia Port ➤ Paradwip Port ➤ Vishahapatnam Port ➤ Chennai Port ➤ Tuticorn Port • Airports 	5	<p>Discussion, Lecture method</p> <p>Students' participation</p> <p>Map Work</p> <p>Draw a Multiple bar diagram to represent the major trading partners</p>	<p>NCERT text books</p> <p>Question bank</p> <p>Extramarks</p>	<p>Class response,</p> <p>Map work</p> <p>Home assignments</p> <p>Semester II</p> <p>Preboard</p>
NOVEMBER	19	21	<p>PART B: UNIT V/ CH 12: Geographical Perspective on Selected Issues and Problems:</p> <ul style="list-style-type: none"> • Environmental pollution <ul style="list-style-type: none"> ➤ Water Pollution 	4	<p>Discussion, Lecture method</p> <p>Students'</p>	<p>NCERT text books</p> <p>Question bank</p>	<p>Class response,</p> <p>Map work</p> <p>Home</p>

			<ul style="list-style-type: none"> ➤ Air Pollution ➤ Noise Pollution • Urban Waste Disposal • Rural –Urban Migration • Problems of Slums • Land Degradation 		<p>participation</p> <p>Find out where does our waste of your area end up. Why do rag pickers sort out rubbish dumps? Does it have some value?</p>	<p>Extramarks</p> <p>https://www.youtube.com/watch?v=e8b0svfuO_k</p>	<p>assignments</p> <p>Semester II</p> <p>Preboard</p>
NOVEMBER	19	21	REVISION				