

ANAND NIKETAN SCHOOL CBSE Affiliation No: 430168 An initiative of Analysis



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		GRADE 12 Science-SPLIT UP SYLLABUS-(2025-2026)	
Month	Chapter	English Theme/ Sub-theme	Activities
April	The Last Lesson	Infringement on the rights of people to speak a language of their choice. Prussia	Textual questions/ Extra questions/ Assignments/Character
	My Mother at sixty six	conquering two districts of France Fear of Kamala Das about the death of her mother.	sketches Textual exercises/Literary devices/ Worksheet
	The Third Level	Charlie's escapism to an unknown parallel world.	Assignments, comprehensions, character sketches and value based questions
May	Notice Writing	Drafting notices for various events and occasions	Notice drafting
June	Lost Spring	The acceptance of poverty, exploitation as destiny and a dire need to provide the poverty-stricken people, especially the children, a life of diginity andopportunities to dare, dream and do.	Assignments, chareter analysie and debate.
	Keeping Quiet	Importance of having peace and unity in the world.	Assignments, comprehension questions and poetic devices.
	Deep Water Formal invitations and replies	A real life personal account of experiencing fear and the steps to overcome it. Drafting formal and informal inviations and replies for various occasions	Textual questions/ Extra questions/ Assignments/Character sketches" Drafting formal and informal inviations and replies for various occasions
July	The Rat Trap	The story has a universal theme that the essential goodness in a human being can be awakened through understanding and love.	Textual exercises/Extracts/ Value based/ Character sketches
	Journey to the end of the Earth	Tishani Doshi describes the journey to the coldest, driest and windiest continent in the world: Antarctica.	Assignment/ Comprehension questions – Textual questions/ Extra questions/ Value based questions
	The Tiger King	The story is a satire on the conceit of those in power.	Textual exercises/Extracts/ Value based/ Character sketches
August	Indigo	The leadership shown by Mahatma Gandhi to secure justice for oppressed people through convincing argumentation and negotiation.	Textual exercises/Extracts/ Value based/ Character sketches
	Letter Writing - Editor and job Application	Importance of writing formal letters like job applications including resume	Drafting job application letters and letters to editor
	A Thing of Beauty	The natural bounties are all beautiful things that fill us with joy and remove the gloom in life.	Assignments, comprehension questions and poetic devices.
September	The Enemy	Dr.Sadao encounters the dilemma-to live as a private individual whose moral ethical responsibility is to save the soldier or to let the prisoner die	Textual exercises/Extracts/ Value based/ Character sketches
	Report writing - Magazines and newsapaper	Importance of writing magazine and newspaper reports.	Drafting reports
October	Poets and pancakes	The author talks about the Gemini studios set up in Chennai. It was one of the most influential film producing organisations of India in the early days of Indian film making.	Textual exercises/Extracts/ Value based/ Character sketches
	On the face of it	The lesson is about the pain and isolation the physically handicapped go through.	Textual exercises/Extracts/ Value based/ Character sketches
	A Roadside Stand	The poet presents the lives of poor, deprived people with pitiless clarity and with the deepest sympathy and humanity.	
	Article Writing	Importance of writing articles.	Drafting articles
November	The Interview - Part 1&2	Part I - Interview in the field of journalism. Part II - is an extract from an interview of Umberto Eco,	Textual exercises/Extracts/ Value based/ Character sketches
	Aunt Jennifer's Tigers	The poem showcases a fair interplay between rebellion and repression, the individual and the social and between personal and political aspects of male chauvinism and suffocation in a married life.	Assignments, comprehension questions and poetic devices.
December	Going Places	Deals with the theme of adolescent fantasising and hero worship	Textual exercises/Extracts/ Value based/Character sketches
December	Memories of Childhood - Part 1&2	The story presents autobiographical episodes from the lives of two women and is an insight into humiliations suffered by the marginalised communities and their relationship with the mainstream culture.	Textual exercises/Extracts/ Value based/Character sketches
January		Revision	
		PHYSICS	
Month April	1.Electric Charges and Fields	Content/Sub Topic Electric Charges; 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).	Activity Expt.(1)To determine resistivity of two / three wires by plotting a graph for potential difference versus current
	2. 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. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance,	Activity(1)To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using a Multimetre.
May	2. Electrostatic Potential and Capacitance	combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only).	Activity(2)To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.
June	3.Current Electricity	Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-l characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, 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 rules, Wheatstone bridge.	Expt.(2) To verify the laws of combination (series) of resistances using a metre bridge. Expt (3). To verify the laws of combination (parallel) of resistances using a metre bridge
	4. Moving Charges 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.	Activity(3)To measure resistance,voltage(AC/DC),current(AC) and check continuity of a given circuit using multimetre
July	4. Moving Charges and Magnetism	Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors- definition of ampere, torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometerits current sensitivity and conversion to ammeter and voltmeter	Expt.(4)To find resistance of a given wire / standard resistor using metre bridge
	5.Magnetism And Matter	5.Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines. Magnetic properties of materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic properties.	Expt(5)To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.

August	6.Electromagnetic Induction	6. Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's	Activity(4)To assemble the components of a given electrical circuit
	7.Alternating Current	Law, Self and mutual induction. 7. Alternating currents, peak and RMS value of alternating current/voltage;	
	7.Alternating Current	reactance and impedance; LCR series circuit (phasors only), 7.Resonance, power in AC circuits, power factor, wattless current. AC generator,	Expt(6) To find the frequency of the AC mains with a Sonometer
September	8. Electromagnetic Waves	Transformer. Basic idea of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses	Activity(5)To study effect of intensity of light on an LDR.
October	9. Ray Optics and optical instruments	Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism. Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.	Activity(6)To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab
	10. Wave optics	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.	Expt.(7)To find the focal length of a convex mirror, using a convex lens
November	10.Wave Optics	Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).	Expt.(7)To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation
	11.Dual Nature of Radiation And Matter	Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect Matter waves-wave nature of particles, de-Broglie relation	Expt.(8)To determine refractive index of a glass slab using a travelling microscope.
	12.Atoms	12.Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom, Expression for radius of nth possible orbit, velocity and energy of electron in his orbit, of hydrogen line spectra (qualitative treatment only).	Activity(7)To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.
	13.Nuclei	Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.	
December	14.Semiconductor Devices	Energy bands in conductors, semiconductors and insulators (qualitative ideas only) intrinsic and extrensic semiconductors;p and n type,p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier;	Expt(9)To draw the I-V characteristic curve for a p-n junction diode in forward bias and reverse bias.
January	Pre Board Examination	Pre Board Examination	
		Biology	
Month	Chapter No./ Chapter's Name	Topics	Lab Experiments/Activities
April	Chapter-1: Sexual Reproduction in Flowering Plants	Flower structure; development of male and female gametophytes; pollination - types, agencies and examples; out breeding devices; pollen-pistil interaction; double fertilization; post fertilization events - development of endosperm and embryo, development of seed and formation of fruit; special modes-apomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation.	To observe pollen germination on stigma through a permanent slide or scanning electron micrograph. To prepare a temporary mount to observe pollen germination. S-lowers adapted to pollination by different agencies (wind, insects, birds).
	Chapter-2: Human Reproduction	Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis -spermatogenesis and oogenesis; menstrual cycle; fertilisation, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation; parturition; lactation	I. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice). 2. To study Mciosis in onion bud cell or grasshopper testis through permanent slides. 3.T.S. of blastula through permanent slides (Mammalian). 4. To Prepare a temporary mount of onion root tip to study mitosis.
	Chapter-3: Reproductive Health	Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs), birth control - need and methods, contraception and medical termination of pregnancy (MTP), amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT.	
May			
June	Chapter-4: Principles of Inheritance and Variation	Heredity and variation: Mendelian inheritance; deviations from Mendelism – incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosome and genes; Sex determination - in humans, birds and honey bee; linkage and crossing over; sex linked inheritance - haemophilia, colour blindness; Mendelian disorders in humans - thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.	1.To study Mendelian inheritance using seeds of different colour/sizes of any plant. 2. To prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colourblindness.
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	Chapter-5: Molecular Basis of Inheritance	Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene 8 expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting.	
	Chapter-6: Evolution	Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene 8 expression and regulation - lac operon; Genome,	To study homologous and analogous organs in plants and animals through models/flash cards.
July		Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene 8 expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting. Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution, evariation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution. Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm and their control; Basic concepts of immunology - vaccines; cancer, HIV and	To study homologous and analogous organs in plants and animals through models/flash cards. To observe common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any funguscausing ringworm through permanent slides, models or virtual images. Comment onsymptoms of diseases that they cause.
July	Chapter-6: Evolution	Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene 8 expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting. Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution a variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution. Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm)	To observe common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any funguscausing ringworm through permanent slides, models or virtual images. Comment
July August	Chapter-6: Evolution Chapter-7: Human Health and Diseases	Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene 8 expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting. Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution, evariation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution. Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alchol abuse. Microbes in food processing, industrial production, sewage treatment, energy generation andmicrobes as bio-control agents and bio-fertilizers. Antibiotics;	To observe common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any funguscausing ringworm through permanent slides, models or virtual images. Comment
	Chapter-6: Evolution Chapter-7: Human Health and Diseases Chapter-8: Microbes in Human Welfare Chapter-9: Biotechnology - Principles and Processes	Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene 8 expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting. Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution, variation (mutation and recombination) and natural selection with examples, types of natural selection, Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution. Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse. Microbes in food processing, industrial production, sewage treatment, energy generation andmicrobes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use Genetic Engineering (Recombinant DNA Technology). Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified	To observe common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any funguscausing ringworm through permanent slides, models or virtual images. Comment onsymptoms of diseases that they cause.
August September October	Chapter-6: Evolution Chapter-7: Human Health and Diseases Chapter-8: Microbes in Human Welfare Chapter-9: Biotechnology - Principles and Processes Chapter-10: Biotechnology and its Applications Chapter-10: Biotechnology and its Applications (Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene 8 expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting. Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution, evariation (mutation and recombination) and natural selection with examples, types of natural selection, Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution. Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse. Microbes in food processing, industrial production, sewage treatment, energy generation andmicrobes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use Genetic Engineering (Recombinant DNA Technology). Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms	To observe common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any funguscausing ringworm through permanent slides, models or virtual images. Comment onsymptoms of diseases that they cause.
August	Chapter-6: Evolution Chapter-7: Human Health and Diseases Chapter-8: Microbes in Human Welfare Chapter-9: Biotechnology - Principles and Processes Chapter-10: Biotechnology and its Applications Chapter-10: Biotechnology and its Applications (contd)	Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene 8 expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting. Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution's carriation (mutation and recombination) and natural selection with examples, types of natural selection, Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution. Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse. Microbes in food processing, industrial production, sewage treatment, energy generation andmicrobes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use Genetic Engineering (Recombinant DNA Technology). Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms Application of biotechnology - Transgenic animals; biosafety issues, biopiracy and patents.	To observe common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any funguscausing ringworm through permanent slides, models or virtual images. Comment onsymptoms of diseases that they cause. To Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc. 1. To study the plant population density by quadrat method.

December	Chapter-13: Biodiversity and its Conservation	Biodiversity - Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites.	To study symbiotic association in root nodules of leguminous plants, cuscuta on host and lichens.
		Pre-Board Exams	
January			
	DOUBT CLARIFICATION SESSION FOR BOARI	DEXAMS	
		Mathematics	
Month	Chapter's Name	Topic	Writing Skills/ Activity/ Practical
April	Ch-3 Matrices	Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).	Mind map
	Ch- 4 Determinants	Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples.	Quiz
May	Ch- 4 Determinants (Continued)	solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.	-
June	Ch-1 Relations and Functions	Types of relations: reflexive, symmetric, transitive and equivalence relations.	Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by $R = \{1,$
	Ch-2 Inverse Trigonometric Functions	One to one and onto functions. Definition, range, domain, principal value branch. Graphs of inverse	m): I is parallel to m} is an equivalence relation. Activity 2:To draw the graph of sin-1 x, using the graph of sin x and demonstrate the concept
		trigonometric functions	of mirror reflection (about the line $y = x$)
July	Ch- 5 Continuity and Differentiability	Continuity and differentiability, chain rule, derivative of inverse trigonometric functions, like sin-1 x, cos-1 x and tan-1 x, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives	Activity 3:To verify Rolle's Theorem.
August	Ch- 6 Applications of Derivatives	Applications of derivatives: rate of change of quantities, increasing/decreasing	Activity 4:To understand the concepts of decreasing and increasing functions
		functions, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate	Activity 5: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area.
	Ch-7 Integrals	Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them.Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals	Activity 6:To evaluate the definite integral from a to b of given function as the limit of a sum and verify it by actual integration.
September	Ch-8 Applications of the Integrals	Applications in finding the area under simple curves, especially lines, circles/	-
	Ch- 12 Linear Programming	parabolas/ellipses (in standard form only) Introduction, related terminology such as constraints, objective function, optimization, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimizal feasible solutions (up to three non-trivial constraints).	Group assessment
October	Ch- 11 Three - dimensional Geometry	Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors. Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, skew lines, shortest distance between two lines. Angle between two lines.	Activity 7:To verify that angle in a semicircle is a right angle, using vector method. Activity 8: To sketch the graphs of a rise to x and log x, a > 0, a is not equal to 1 and to examine that they are mirror images of each other. Activity 9: To measure the shortest distance between two skew lines and verify it
November	Ch- 13 Probability	Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability	analytically. Activity10:To explain the computation of conditional probability of a given event A when event B has already occured, through an example of throwing a pair of dice.
December	Ch-9 Differential Equations	distribution, mean of random variable. Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type: $dy/dx + py = q$, where p and q are functions of x or constants. $dx/dy + px = q$, where p and q are functions of y or constants	Mind Map
January		Pre-Board Exams	
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Month April	Chapter's Name Chapter 1- Solutions	Topic Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.	Writing Skills/ Activity/ Practical Volumteric Analysis
	Chapter 6- Haloalkanes and Haloarenes	comganive properties, autonima morecular mass, vant riori rated Haloalkines: Nomenclature, nature of C – X bond, physical and chemical properties, optical rotation mechanism of substitution reactions. Haloarenes: Nature of C – X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only).	Volumteric Analysis
May	Chapter 6- Haloalkanes and Haloarenes(conti)	Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.	Volumteric Analysis
June	Chapter 2- Electro Chemistry	Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.	
July	Chapter 3- Chemical Kinetics	Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.	Salt Analysis
August	Chapter 7- Alcohol, phenol and ether	Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol. Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols	Salt Analysis

September			
	Chapter 4- d-and f-Block Elements	General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first-row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of K2Cr2O? and KMnO4 Lanthanoids –Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids – Electronic configuration, oxidation states and comparison with lanthanoids.	
October	Chapter 5- Coordination Compounds	Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT; structure and stereoisomerism, the importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).	Salt Analysis
	Chapter 8 Aldehyde, Ketones and Carboxylic Acid	Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses.	Organic Compound Analysis
November	Chapter 8 Aldehyde, Ketones and Carboxylic Acid	Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and	Organic Compound Analysis
	Chapter 9 Amines	chemical properties; uses. Amines: Nomenclature, classification, structure, methods of preparation,	Organia Companyal Analysis
	Chapter 9 Athines	physical and chemical properties, uses, identification of primary, secondary and tertiary amines. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.	Organic Compound Analysis
December	Chapter 10- Biomolecules	Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates. Proteins - Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes. Hormones - Elementary idea excluding structure. Vitamins - Classification and functions. Nucleic Acids: DNA and RNA.	Organic Compound Analysis
January	Revision Pre Board Examination	Revision Pre Board Examination	
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		ENTREPRENEURSHIP	
Month	Chapter's Name Chpter 1 Entrepreneurial Opportunity	Торіс	Writing Skills/ Activity/ Practical
April	Capter 1 Entrepreneural Opportunity	Sensing Entrepreneurial Opportunities Environment Scanning and Problem Identification Spotting Trends Creativity and Innovation • Selecting the Right Opportunity	practical project for probelem identification and turn it in an opportunity
May June	Chpter 2: Entrepreneurial Planning	Forms of business organization- Soleproprietorship, Partnership, Company	Project for business planning
		Business Plan: concept, format "Components: Organisational plan; Operational plan; Production plan; Financial plan; Marketing plan; Human Resource planning"	
July	Unit 3: Enterprise Marketing	Marketing and Sales Strategy Branding, Logo, Tagline Promotion Strategy	Product Marketing
August	Unit 3: Enterprise Marketing (Continue)	Negotiations - Importance and Methods Customer Relationship Management Vendor Management	Project preparation
	Chpater 4: Enterprise Growth Strategies	Franchising: Concept, types, advantages, limitations. Mergers and Acquisition: Concept, reasons, types.	
	Chpater 4: Enterprise Growth Strategies Revision	Reasons for failure of Mergers and Acquisitions	Chart preparation for Types of franchising
September		Unit of Sale, Unit Cost for multiple products or services	Numerical solution
October	Chapter 5: Business Arithmetic	" Break even Analysis for multiple products or services	
October	Unit 6: Resource Mobilization	"Capital Market-Primary and Secondary Stock Exchange-Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers	Group discussion on financial resources
October		"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features	Group discussion on financial resources Study Of Share market
October	Unit 6: Resource Mobilization	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features Revision	·
October November December	Unit 6: Resource Mobilization	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features	·
October November December	Unit 6: Resource Mobilization	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features Revision PRE-BOARDS	·
October November December January	Unit 6: Resource Mobilization Unit 6: Resource Mobilization (Continue)	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features Revision	Study Of Share market Writing Skills/Activity/ Practical
October November December January	Unit 6: Resource Mobilization Unit 6: Resource Mobilization (Continue)	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features Revision PRE-BOARDS Physical Education Topics Methods of drawing fixtures, knockout tournaments, . league tournament, Round Robin Tournaments, Intramural, extramural Changing Trends & Career in Physical Education • Meaning & definition of	Study Of Share market
October November December January	Unit 6: Resource Mobilization Unit 6: Resource Mobilization (Continue)	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features Revision PRE-BOARDS Physical Education Topics Methods of drawing fixtures, knockout tournaments, . league tournament, Round Robin Tournaments, Intramural, extramural	Study Of Share market Writing Skills/ Activity/ Practical Practical planning of league system on Board and on ground practical of different tournament pattern
November December January Month April	Unit 6: Resource Mobilization Unit 6: Resource Mobilization (Continue) Chapter's Name Chapt. 1. Planning in sports Chapt. 1. Planning in sports (Continued)	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features Revision PRE-BOARDS Physical Education Topics Methods of drawing fixtures, knockout tournaments, league tournament, Round Robin Tournaments, Intramural, extramural Changing Trends & Career in Physical Education • Meaning & definition of Physical Education • Aims & Objectives of Physical Education • Career Options seeding, special seeding, American method of finding winners benefits of knockout ans league matches	Study Of Share market Writing Skills/Activity/ Practical Practical planning of league system on Board and on ground practical of different tournament pattern Drawing fixtures for the different types of tournaments Practical planning of league system on Board and on ground practical of different tournament pattern
November December January Month April May June	Unit 6: Resource Mobilization Unit 6: Resource Mobilization (Continue) Chapter's Name Chapt. 1. Planning in sports Chapt. 1. Planning in sports (Continued) Chapt. 2. Sports and nutrition	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features Revision PRE-BOARDS Physical Education Topics Methods of drawing fixtures, knockout tournaments, league tournament, Round Robin Tournaments, Intramural, extramural Changing Trends & Career in Physical Education • Meaning & definition of Physical Education • Aims & Objectives of Physical Education • Career Options seeding, special seeding, American method of finding winners benefits of knockout ains league matches Nutrition, Micro Nutrients, Macro Nutrients, Minerals, BMI, Eating disorders, Anorexia, Bullimia, Pitfalls in dieting, Food Supplimentts	Study Of Share market Writing Skills/ Activity/ Practical Practical planning of league system on Board and on ground practical of different tournament pattern Drawing fixtures for the different types of tournaments Practical planning of league system on Board and on ground practical of different tournament pattern Sports Nutrition Quiz and showing video.
October November December January Month April May June July	Unit 6: Resource Mobilization (Continue) Chapter's Name Chapt.1. Planning in sports Chapt. 2. Sports and nutrition Chapt. 3. Yoga and life style	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features Revision PRE-BOARDS Physical Education Topics Methods of drawing fixtures, knockout tournaments, league tournament, Round Robin Tournaments, Intramural, extramural Changing Trends & Career in Physical Education • Meaning & definition of Physical Education • Aims & Objectives of Physical Education • Career Options seeding, special seeding, American method of finding winners benefits of knockout ains league matches Nutrition, Micro Nutrients, Macro Nutrients, Minerals, BMI, Eating disorders, Anorexia, Bullimia, Pitfalls in dieting, Food Supplimentts Physical Fitness, Wellness & Lifestyle • Meaning & Importance of Physical Fitness, Wellness & Lifestyle • Components of physical fitness and Wellness • Components of Health related fitness	Study Of Share market Writing Skills/ Activity/ Practical Practical planning of league system on Board and on ground practical of different tournament pattern Drawing fixtures for the different types of tournaments Practical planning of league system on Board and on ground practical of different tournament pattern Sports Nutrition Quiz and showing video. Different asana practices and Surya Namaskar Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh Matsyendrasana
November December January Month April May June	Unit 6: Resource Mobilization Unit 6: Resource Mobilization (Continue) Chapter's Name Chapt. 1. Planning in sports Chapt. 1. Planning in sports (Continued) Chapt. 2. Sports and nutrition	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features Revision PRE-BOARDS Physical Education Topics Methods of drawing fixtures, knockout tournaments, . league tournament, Round Robin Tournaments, Intramural, extramural Changing Trends & Career in Physical Education • Meaning & definition of Physical Education • Aims & Objectives of Physical Education • Career Options seeding, special seeding, American method of finding winners benefits of knockout ans league matches Nutrition, Micro Nutrients, Macro Nutrients, Minerals, BMI, Eating disorders, Anorexia, Bullimia, Pitfalls in dieting, Food Suppliments Physical Fitness, Wellness & Lifestyle • Meaning & Importance of Physical Fitness, and Wellness •	Study Of Share market Writing Skills/ Activity/ Practical Practical planning of league system on Board and on ground practical of different tournament pattern Drawing fixtures for the different types of tournaments Practical planning of league system on Board and on ground practical of different tournament pattern Sports Nutrition Quiz and showing video. Different asana practices and Surya Namaskar Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana,
October November December January Month April May June July	Unit 6: Resource Mobilization (Continue) Chapter's Name Chapt.1. Planning in sports Chapt. 2. Sports and nutrition Chapt. 3. Yoga and life style	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features Revision PRE-BOARDS Physical Education Topics Methods of drawing fixtures, knockout tournaments, league tournament, Round Robin Tournaments, Intramural, extramural Changing Trends & Career in Physical Education • Meaning & definition of Physical Education • Aims & Objectives of Physical Education • Career Options seeding, special seeding, American method of finding winners benefits of knockout as league matches Nutrition, Micro Nutrients, Macro Nutrients, Minerals, BMI, Eating disorders, Anorexia, Bullimia, Pitfalls in dieting, Food Suppliments Physical Fitness, Wellness & Lifestyle • Meaning & Importance of Physical Fitness, Wellness & Lifestyle • Components of physical fitness and Wellness • Components of Health related fitness Causes of Disorders, Autism , OCD, ADHD, SPD, Diabalitit Etiquette and	Study Of Share market Writing Skills/ Activity/ Practical Practical planning of league system on Board and on ground practical of different tournament pattern Drawing fixtures for the different types of tournaments Practical planning of league system on Board and on ground practical of different tournament pattern Sports Nutrition Quiz and showing video. Different asana practices and Surya Namaskar Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh Matsyendrasana Making Charts on different postures. Showing Common Postural Deformities video. Types of Disability, its causes & nature (cognitive disability, intellectual disability, physical
October November December January Month April May June July	Unit 6: Resource Mobilization Unit 6: Resource Mobilization (Continue) Chapter's Name Chapt. 1. Planning in sports Chapt .1. Planning in sports (Continued) Chapt .2 Sports and nutrition Chapt .3. Yoga and life style Chapt. 4. Sports for CWSN	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features Revision PRE-BOARDS Physical Education Topics Methods of drawing fixtures, knockout tournaments, . league tournament, Round Robin Tournaments, Intramural, extramural Changing Trends & Career in Physical Education • Meaning & definition of Physical Education • Aims & Objectives of Physical Education • Career Options seeding, special seeding, American method of finding winners benefits of knockout thas league matches Nutrition, Micro Nutrients, Macro Nutrients, Minerals, BMI, Eating disorders, Anorexia, Bullimia, Plitfalls in dieting, Food Suppliments Physical Fitness, Wellness & Lifestyle • Meaning & Importance of Physical Fitness, Wellness & Lifestyle • Components of physical fitness and Wellness • Components of Health related fitness Causes of Disorders, Autism , OCD, ADHD, SPD, Diabaliitit Etiquette and causes and treatment for different disorders	Study Of Share market Writing Skills/ Activity/ Practical Practical planning of league system on Board and on ground practical of different tournament pattern Drawing fixtures for the different types of tournaments Practical planning of league system on Board and on ground practical of different tournament pattern Sports Nutrition Quiz and showing video. Different asana practices and Surya Namaskar Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh Matsyendrasana Making Charts on different postures. Showing Common Postural Deformities video. Types of Disability, its causes & nature (cognitive disability, intellectual disability, physical disability) Making Charts on different postures.
November December January Month April May June July	Unit 6: Resource Mobilization Unit 6: Resource Mobilization (Continue) Chapter's Name Chapt. 1. Planning in sports Chapt. 2 Sports and nutrition Chapt. 3. Yoga and life style Chapt. 4. Sports for CWSN Chapt. 5. Children and sports, Women and Sports	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers Angel Investor: Features Revision PRE-BOARDS Physical Education Topics Methods of drawing fixtures, knockout tournaments, league tournament, Round Robin Tournaments, Intramural, extramural Changing Trends & Career in Physical Education • Meaning & definition of Physical Education • Aims & Objectives of Physical Education • Career Options seeding, special seeding, American method of finding winners benefits of knockout ans league matches Nutrition, Micro Nutrients, Macro Nutrients, Minerals, BMI, Eating disorders, Anorexia, Bulimia, Pitfalls in dieting, Food Suppliments Physical Fitness, Wellness & Lifestyle • Meaning & Importance of Physical Fitness, Wellness & Lifestyle • Components of physical fitness and Wellness • Components of Health related fitness Causes of Disorders, Austin, OCD, ADHD, SPD, Diabaliitit Etiquette and causes and treatment for different disorders Casuses of Disorders, Osteoporosis, Bulimia, Motor Fitness test	Study Of Share market Writing Skills/ Activity/ Practical Practical planning of league system on Board and on ground practical of different tournament pattern Drawing fixtures for the different types of tournaments Practical planning of league system on Board and on ground practical of different tournament pattern Sports Nutrition Quiz and showing video. Different asana practices and Surya Namaskar Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh Matsyendrasana Making Charts on different postures. Showing Common Postural Deformities video. Types of Disability, its causes & nature (cognitive disability, intellectual disability, physical disability) Making Charts on different postures. Showing Common Postural Deformities video. Practical of Motor Fitness Test "Making Charts on different postures.

December		Newton law of motion & its application in sports Types of movements(flexion, Extension, Adbuction,	Interval Training & Fartlek Training
	Chapt. 9. Psychology and Sports	Understanding Stress & coping Strategies Personality; its definition & types, - Trait & Types & big five theory	Preparation of final draft of Project File
		Motivation, its types & techniques Exercise Adherence; Reasons to Exercise, Benefits of Exercise	
		Strategies for Enhancing Adherence to Exercise Meaning, concept & types of Aggressions in Sports	
	Chapt. 10. Training in sports	Strength-definition, types &method Endurance-definition, types &method Speed-definition, types &method	Preparation of final draft of Project File
		Flexibility- definition, types &method Coordinative Abilities- definition and types	
January		Circuit Training – intro & importance Pre-Board Exams	<u> </u>
		APPLIED MATHEMATICS	
Month	Chapter's Name	Topic	Writing Skills/ Activity/ Practical
April	Ch-2 Matrices	Inverse of A Matrix Solving system of simultaneous equations using matrix method Cramer's Rule Algebra of Matrices Matrices and types of Matrices Determinants Equality of Matrices	Using spresdsheet find the inverse of a matrices.
		Transpose of a Matrix Symmetric and Skew Symmetric Matrix	
	Ch- 2 Determinants	Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples.	Draw Mid map
May	Ch- 2 Determinants (Continued)	solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.	Solve application base Case Study
June	Ch-1 Numbers, Quantification and Numerical	Congruence Modulo Modulo Arithmetic	To understand the concepts of Congruence Modulo and Equivalence Class by findingcongruence modulo 6 and of first 50 natural numbers. Segregate the above results on
	Applications	Numerical Inequalities Alligation And Mixture Numerical Problems Boats and Streams (Upstream And Downstream) Races and Games Pipes and Cisterns	the basis of their remainders for mod 6.
	chapter -1 Relations and Functions	Components of Time Series Methods of Measuring Trend Time Series Secular Trend Time Series Secular Trend	Collect data from newspapers on traffic, sports activities and market trends and use excel to study future trends
July	Ch-3A- Differentiation and its Applications	Marginal Cost and Marginal Revenue using Derivatives	Find Area between curves.
		Maxima and Minima Application of Derivatives Higher-Order Derivatives Increasing /Decreasing Functions	
August	Ch- 3B- Integration	Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple	Activity: To evaluate the definite integral from a to b of given function as the limit of a sum and verify it by actual integration.
September	Ch-8 Applications of the Integrals	Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only)	
	Ch-5 Inferential Statistics	Population and Sample t-Test (One-Sample T-Test and Two Independent Groups T-Test) Parameter and Statistics and Statistical Interferences	Project Work: Analysis of population migration data – positive and negative influence on urbanization
October	Ch-7 Financial Mathematics	Calculation of Emi Linear Method of Depreciation Perpetuity Sinking Funds Compound Annual Growth Rate Calculation of Returns	Stock Market data sheet on excel.Real life examples of sinking fund, Advantages of Sinking Fund, Sinking Fund vs. Savings account
	Ch-8 Linear Programming Problem	Nominal Rate of Return Feasible and Infeasible Solutions Optimal Feasible Solution Introduction and Related Terminology Feasible and Infeasible Regions Mathematical Formulation of linear programming problem Graphical method of solution for problems in two variables	Assignment of a company by choosing a certain number of employees to complete the assignment within the required deadline, given that a single person works on only one job within the assignment. In this type of problem, the number of employees, the work- hours of each employee etc. are considered as constraints and the total assignment to be done is treated as objective function.
November	Ch-4Probability Distributions	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Binomial Distribution	Find conditional probability of an event.
December	Ch-3C-Differential Equations and Modeling	Application of Differential Equations Differential Equations Formulating and Solving Differential Equations	Data Analysis through Excel
January		Pre-Board Exams	
		Psychology	
Month April	Chapter's Name	Topic Assessment of Psychological Attributes	Writing Skills/ Activity/ Practical Activity 1-Find out the IQ of a 14-year-old child with a mental age of 16.
April	Chapter 1 : variations in psychological attributes	Assessment of Psychological Attributes Intelligence Theories of Intelligence	Activity 1-Find out the IQ of a 14-year-old child with a mental age of 16. -Find out the mental age of a 12-year-old child with an IQ of 90.
		Individual Differences in Intelligence	Activity 2. Discovering the Attributes of Intelligent Persons.
		Culture and Intelligence Individual Differences in Human Functioning Special Abilities: Aptitude: Nature and Measurement	
		Special Controls Aprillage, Pattare and Measurement	1

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June	Chapter 2 : self and personality	1. Introduction 2. Salf and Perconality	Activities:
		Self and Personality Concept of Self	Understanding the Self questionnaire Observe and note your behaviour
		24 Periods	characteristics and those of your
		Cognitive and Behavioural Aspects of Self Culture and Self	friends that have been imbibed from popular youth icons
		6. Concept of Personality	3. Personality assessment Test
		7. Major Approaches to the Study of Personality	
		☐ Type Approach	
		☐ Trait Approach ☐ Psychodynamic Approach	
		☐ Behavioural Approach	
		☐ Cultural Approach	
		☐ Humanistic Approach	
		8. Assessment of Personality □ Self-report Measures	
		☐ Projective Techniques	
July	Chapter 3 : meeting life challenges	1. Introduction	Identify the stressful events, which you and two your classmates have experienced in the past
		Nature, Types and Sources of Stress Description of Stress	one year. List the streeful events and rank them from 1 to 5 that have had negative impact
		Effects of Stress on Psychological Functioning and Health	in your day- to- day functioning, then select those that are common to all three of you. Find out howmuch ability, skill and family support your friends and you have in order to deal with
		□ Stress and Health	each of these stresses.
		☐ General Adaptation Syndrome	Discuss these with your teacher.
		☐ Stress and Immune System ☐ Lifestyle	
		4. Coping with Stress	
		☐ Stress Management Techniques	
		5. Promoting Positive Health and Well-being	
		☐ Stress Resistant Personality ☐ Life Skills	
		□ Positive Health	
August	Chapter 4: psychological disorders	1. Introduction	Certain behaviours like eating sand would be considered abnormal. But not if it was done aftr
		2. Concepts of Abnormality and Psychological Disorders	being stranded on a beach in a plain crash. Listed below are abnormal behaviours followd by
		☐ Historical Background	situations where the behaviours might be considere normal (i) talking to yourelf - you are
		Classification of Psychological Disorders Periods	praying (ii) standing in the middle of the street waving your hands wildly - you are a traffic policeman. Think about this and list out
		4. Factors Underlying Abnormal Behaviour	similar examples.
		5. Major Psychological Disorders	
		☐ Anxiety Disorders ☐ Obsessive Compulsive and Related Disorders	
		☐ Obsessive-Compulsive and Related Disorders ☐ Trauma-and Stressor-Related Disorders	
		☐ Somatic Symptom and Related Disorders	
		☐ Dissociative Disorders	
		☐ Depressive Disorder ☐ Binolar and Balated Disorders	
		☐ Bipolar and Related Disorders ☐ Schizophrenia Spectrum and Other Psychotic	
		Disorders	
		□ Neurodevelopmental Disorders	
		☐ Disruptive, Impulse-Control and Conduct Disorders ☐ Feeding and Eating Disorders	
		☐ Substance Related and Addictive Disorders	
September	Chapter 5 : therapeutic approaches	Nature and Process of Psychotherapy	Case Study
	The state of the s	☐ Therapeutic relationship	,
		2. Types of Therapies	
		☐ Psychodynamic Therapy ☐ Behaviour Therapy	
		☐ Cognitive Therapy	
		☐ Humanistic-Existential Therapy	
		☐ Biomedical Therapy	
		☐ Alternative Therapies 3. Rehabilitation of the Mentally Ill	
October	Chapter 6 : attitude and social cognition	1. Introduction	A Survey:
		2. Explaining Social Behaviour	Attitudes Towards and Awareness of Waste Management
		Nature and Components of Attitudes	
		4. Attitude Formation and Change ☐ Attitude Formation	
		20 Periods	
		☐ Attitude Change	
		☐ Attitude-Behaviour Relationship	
		Prejudice and Discrimination Strategies for Handling Prejudice	
		7. Social Cognition	
		8. Schemas and Stereotypes	
		9. Impression Formation and Explaining Behaviour of Others through Attributions	
		☐ Behaviour of Others through Attributions ☐ Impression Formation	
		☐ Attribution of Causality	
		10.Behaviour in the Presence of Others	
		11.Pro-social Behaviour	
November	Chapter 7: cooled influence and arrangements	☐ Factors Affecting Pro-social Behaviour	Activity
November	Chapter 7: social influence and group processes	Introduction Nature and Formation of Groups	Activity: Identifying Stages of Group
		3. Type of Groups	Formation
		4. Influence of Group on Individual Behaviour	
		☐ Social Loafing ☐ Group Polarisation	
		Group Polarisation Conformity, Compliance and Obedience	
1		6. Cooperation and Competition	
1			
		☐ Determinants of Cooperation and Competition	
		7. Social Identity	
		7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies	
December	Project	7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies Students are required to administer and interpret three psychological tests related	In term 1 the student is introduced to administration, scoring, interpretation, & report writing
December	Project	7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies Students are required to administer and interpret three psychological tests related to various psychological attributes like intelligence, aptitude, attitude,	In term 1 the student is introduced to administration, scoring, interpretation, & report writing of any 2 psychological tests.
	Project	7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies Students are required to administer and interpret three psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, selfconcept, adjustment, anxiety, interest etc.	
December January	Project	7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies Students are required to administer and interpret three psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, selfconcept, adjustment, anxiety, interest etc. The focus should be on helping the student develop an understanding of human	
	Project	7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies Students are required to administer and interpret three psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, selfconcept, adjustment, anxiety, interest etc.	
	Project Practical Conduction	7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies Students are required to administer and interpret three psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, selfconcept, adjustment, anxiety, interest etc. The focus should be on helping the student develop an understanding of human behavior through the administration of the tests, interpretation of the scores and	of any 2 psychological tests. In Practical examination of term 2, the student will be required to administer and interpret
		7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies Students are required to administer and interpret three psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, selfconcept, adjustment, anxiety, interest etc. The focus should be on helping the student develop an understanding of human behavior through the administration of the tests, interpretation of the scores and	of any 2 psychological tests.
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January	Practical Conduction	7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies Students are required to administer and interpret three psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, selfconcept, adjustment, anxiety, interest etc. The focus should be on helping the student develop an understanding of human behavior through the administration of the tests, interpretation of the scores and its application in various situations/conditions Computer Science	of any 2 psychological tests. In Practical examination of term 2, the student will be required to administer and interpret one psychological test.
		7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies Students are required to administer and interpret three psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, selfconcept, adjustment, anxiety, interest etc. The focus should be on helping the student develop an understanding of human behavior through the administration of the tests, interpretation of the scores and its application in various situations/conditions	of any 2 psychological tests. In Practical examination of term 2, the student will be required to administer and interpret
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January	Practical Conduction	7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies Students are required to administer and interpret three psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, selfconcept, adjustment, anxiety, interest etc. The focus should be on helping the student develop an understanding of human behavior through the administration of the tests, interpretation of the scores and its application in various situations/conditions Computer Science Topic Revision of Python topics covered in Class XI.	of any 2 psychological tests. In Practical examination of term 2, the student will be required to administer and interpret one psychological test. Writing Skills/Activity/ Practical To reinforce concepts from all key units of Python and associated topics through hands-on
January Month	Practical Conduction Chapter's Name	7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies Students are required to administer and interpret three psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, selfconcept, adjustment, anxiety, interest etc. The focus should be on helping the student develop an understanding of human behavior through the administration of the tests, interpretation of the scores and its application in various situations/conditions **Computer Science** Topic Revision of Python topics covered in Class XI.	of any 2 psychological tests. In Practical examination of term 2, the student will be required to administer and interpret one psychological test. Writing Skills/Activity/ Practical

		Tuser	
May		defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)	
June	Unit -2 Functions And Exception handling	Exception Handling: Introduction, handling exceptions using try-except-finally blocks	Write a Python program to simulate a basic inventory management system using lists and dictionaries.
July	Binary File Handling	Binary file: basic operations on a binary file: open using file open modes (rb, rb+,	Use functions for input, processing, and display. Implement exception handling for invalid data types or missing values.
		wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file	Practical Task:Demonstrate try, except, else, and finally blocks. Create a user-defined function for division and handle divide-by-zero errors.
August	CSV File and Data Structure	CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader()	Read a CSV file containing employee records. Display highest-paid employee using dictionaries.
		 Data Structure: Stack, operations on stack (push & pop), implementation of stack using list. 	Practical Task: Use csv.reader() and csv.writer().
September	Computer Network & Concept	Unit 2: Computer Networks	Create a report of employees whose salary is above a threshold Write a short note on the difference between IP address and MAC address.
		Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET)	Explain client-server and peer-to-peer network models with examples.
		 Data communication terminologies: concept of communication, components of data communication (sender,receiver, message, communication media, 	Practical Task (Theoretical):
		protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet	Identify and explain different types of network topologies using diagrams.
		switching) • Transmission media: Wired communication media (Twisted pair cable, Co-	Explain DNS, HTTP, FTP in 2-3 sentences each.
		axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves) Network devices (Modem, Ethernet card, RJ45, Repeater, Hub,	
		Switch, Router, Gateway, WIFI card) • Network topologies and Network types: types of networks (PAN, LAN, MAN,	
		WAN), networking topologies (Bus, Star, Tree) • Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS,	
October	Unit :3 Data base managment	TELNET, VoIP Unit 3: Database Management	Using MySQL or any SQL environment:
	-	Database concepts: introduction to database concepts and its need Relational data model: relation, attribute, tuple, domain, degree, cardinality,	Execute queries for JOIN, GROUP BY, and aggregate functions.
		keys (candidate key, primary key, alternate key, foreign key)	Import CSV data into SQL and perform search queries.
		Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date),	
		constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table	
		(add and remove an attribute, add and remove primary key), drop table, insert, delete, select operators (mathematical, relational and logical), aliasing, distinct	
		clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg,	
		sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join	
		Interface of python with an SQL database: connecting SQL with Python, performing	
		insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database	
		connectivity applications, use of %s format specifier or format() to perform queries	
November	Database managment II	delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and	Normalization and its types. Difference between primary key and foreign key with examples.
		natural join	Design a relational database for a Library Management System: Create tables for books, members, and transactions.
		Interface of python with an SQL database: connecting SQL with Python, performing	Use keys to define relationships.
		insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database	
		connectivity applications, use of %s format specifier or format() to perform queries	
December January	Revision of all practical and theory portion	Practicals and baord practicals practice and builting program Pre-Board Exams	
		Painting	
Month	Chapter's Name Chapter - 1 = The Rajasthan school of painting	Topic Introduction: raisethan melwa marwad mawad bundi kota hikaner kichangad	Activity/Practicals
April		Introduction: rajasthan, melwa, marwad, mewad, bundi, kota, bikaner,kishangad, jodhpur	Lining Work, Sketching work
	The Rajasthani School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth. Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad	
		mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.)	
		A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India.	
		Appreciation of art works from your syllabus from the following schools a. The Rajasthani School	
		b. The Pahari School c. The Mughal School	
		d. The Deccan School based on their:	
		Origin and Development Sub-Schools	
		Main features Characteristics	
		Aesthetic parameters Competency based identification of style & technique	
		7. Understanding of emotions and moral values 8. Respect for life.	
May June	Pahari School of Miniature Painting	Title Painter	vecetion homework ; Tint and Shade Live ; Sketching work
		Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor	
July			Folk art, Madhubani art
	The Mughal School of Miniature Painting	Falcon on a Bird-Rest Ustad Mansoor	
August		Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni	Still Life, Object Drawing
0			
September	The Deccan School:	Title Painter Sub-School Hazrat Nizamuddin Auliya and Amir Khusro	Nature, Landscapep

		Unknown Hyderabad Chand Bibi Playing Polo (Chaugan) Unknown Gol Konda	
October	The Bengal School of Painting and the Modern trends in Indian Art	(About the beginning to mid of the 20th Century), contribution of Indian artists towards freedom movement, Revival of Indian Art, Indian National Flag Appreciation of art works from your syllabus based on their: 1. Origin and Development 2. Main features 3. Characteristics 4. Aesthetic parameters 5. Symbolic representation in artworks. 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life.	Body part,
November	A National Flag of India :B The Bengal School of Painting	A National Flag of India: The Symbolic significance of its forms and the colours. Contribution of Indian artists in the struggle for National Freedom Movement. B The Bengal School of Painting Title Painter Journey's End Abanindranath Tagore Shiv and Sati Nandlal Bose Radhika M.A.R. Chughtai Meghdoot Ram Gopal Vijaivargiya	
December	The Modern Trends in Indian Art	C The Modern Trends in Indian Art Appreciation of the following contemporary (Modern) Indian Art i. i. Paintings: Rama Vanquishing the Pride of the Ocean Raja Ravi Varma Title Painter Krishna Lifting Mount Govardhan Miskin Falcano na Bird Rest Ustad Mansoor Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni 14 Mother and child Jamini Roy Haldi Grinders Amrita Sher Gill Mother Teresa M.F. Hussain ii. ii. Graphie - prints: Children Somnath Hore Devi Jyoti Bhatt Of Walls Anupam Sud Man, Woman and Tree K. Laxma Goud iii. iii. Sulputres: Triumph of Labour Triumph of Labour Santhal Family Santhal Family Cries Un - heard Cries Un - heard Ganesha Ganesha	
January	Pre- Boards Examination		



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	GRADE 12 Commerce-SPLIT UP SYLLABUS-(2025-2026)			
		English		
Month	Chapter	Theme/ Sub-theme	Activities	
	The Last Lesson	Infringement on the rights of people to speak a language of their choice.	Textual questions/ Extra questions/ Assignments/Character	
	M M d = + 1 + 1	Prussia conquering two districts of France	sketches	
April	My Mother at sixty six The Third Level	Fear of Kamala Das about the death of her mother. Charlie's escapism to an unknown parallel world.	Textual exercises/Literary devices/ Worksheet Assignments, comprehensions, character sketches and value based questions	
	Notice Writing	Drafting notices for various events and occasions	Notice drafting	
	Lost Spring	The acceptance of poverty, exploitation as destiny and a dire need to	Assignments, charcter analysie and debate.	
		provide the poverty-stricken people, especially the children, a life of		
	Keeping Quiet	diginity andopportunities to dare, dream and do. Importance of having peace and unity in the world.	Assignments, comprehension questions and poetic devices.	
June	Reeping Quiet	A real life personal account of experiencing fear and the steps to overcome	Textual questions/ Extra questions/ Assignments/Character	
	Deep Water	it.	sketches"	
	Formal invitations and replies	Drafting formal and informal inviations and replies for various occasions	Drafting formal and informal inviations and replies for various occasions	
	The Rat Trap	The story has a universal theme that the essential goodness in a human being can be awakened through understanding and love.	Textual exercises/Extracts/ Value based/ Character sketches	
July		Tishani Doshi describes the journey to the coldest, driest and windiest	Assignment/ Comprehension questions – Textual questions/ Extra questions/ Value	
•	Journey to the end of the Earth	continent in the world: Antarctica.	based questions	
	The Tiger King	The story is a satire on the conceit of those in power.	Textual exercises/Extracts/ Value based/ Character sketches	
	Indigo	The leadership shown by Mahatma Gandhi to secure justice for oppressed people through convincing argumentation and negotiation.	Textual exercises/Extracts/ Value based/ Character sketches	
		people through convincing argumentation and negotiation.		
August	Letter Writing - Editor and job Application	Importance of writing formal letters like job applications including resume	Drafting job application letters and letters to editor	
	A Thing of Beauty	The natural bounties are all beautiful things that fill us with joy and	Assignments, comprehension questions and poetic devices.	
		remove the gloom in life.		
		Dr Sadao encounters the dilamma to live as a private individual	Textual exercises/Extracts/ Value based/ Character sketches	
September	The Francis	Dr.Sadao encounters the dilemma-to live as a private individual whose moral ethical responsibility is to save the soldier or to let the prisoner die		
	The Enemy Report writing - Magazines and newsapaper	Importance of writing magazine and newspaper reports.	Drafting reports	
	Poets and pancakes	The author talks about the Gemini studios set up in Chennai. It was one of	Textual exercises/Extracts/ Value based/ Character sketches	
		the most influential film producing organisations of India in the early days		
		of Indian film making.	Taytud averaises/Eytreats/Valus hand/Character des 1	
		The lesson is about the pain and isolation the physically handicapped go through.	Textual exercises/Extracts/ Value based/ Character sketches	
October	On the face of it			
	A Dondaida Stand	The poet presents the lives of poor, deprived people with pitiless clarity	Assignments, comprehension questions and poetic devices.	
	A Roadside Stand Article Writing	and with the deepest sympathy and humanity. Importance of writing articles.	Drafting articles	
		Part I- Interview in the field of journalism. Part II -is an extract from an	Textual exercises/Extracts/ Value based/ Character sketches	
	The Interview - Part 1&2	interview of Umberto Eco,		
November		The poem showcases a fair interplay between rebellion and repression, the individual and the social and between personal and political aspects of	Assignments, comprehension questions and poetic devices.	
	Aunt Jennifer's Tigers	male chauvinism and suffocation in a married life.		
	Coine Norm	Dorlowish the shows of calculation of the control o	Tout and assessing (Fortuna to / Volume have also the advantage)	
	Going Places	Deals with the theme of adolescent fantasising and hero worship The story presents autobiographical episodes from the lives of two women	Textual exercises/Extracts/ Value based/Character sketches Textual exercises/Extracts/ Value based/Character sketches	
December		and is an insight into humiliations suffered by the marginalised	Textual exercises/Extracts/ value based/Character sketches	
eccinisci	Memories of Childhood - Part 1&2	communities and their relationship with the mainstream culture.		
anuary	Revision			
anuary	Revision	Accountracy		
January Month		Accountancy Topic	Writing Skills/ Activity/ Practical	
	Chapter's Name PART -2	Topic	Writing Skills/Activity/ Practical	
	Chapter's Name	Topic Introduction of Share and share capital: nature and types, Issue of	Writing Skills/ Activity/ Practical Study abount Joint Stock Compnies Act	
Month	Chapter's Name PART -2	Topic		
Month April	Chapter's Name PART -2	Topic Introduction of Share and share capital: nature and types, Issue of		
Month	Chapter's Name PART-2 Chapter 1 Accounting for share capital TEST	Topic Introduction of Share and share capital: nature and types, Issue of Shares, Accounting tratment for forefieture and reisuue of shares Accounting for Share Capital	Study abount Joint Stock Compnies Act	
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Month April May	Chapter's Name PART - 2 Chapter 1 Accounting for share capital TEST 2. Accounting For Debentures 3. Financial Statements of the Company 4. Comprative-Commonsize Statements 5. Accounting Ratios	Introduction of Share and share capital: nature and types, Issue of Shares, Accounting traitment for forefleture and reisuue of shares Accounting for Share Capital Jornal entries for Issue of Debentures, Journal entries with the terms of Redemption, Issue of Debentures as Colletaral Security, Issue of Debentures other than Cash Major head- Sub Heads Comparative Balance Sheet and Profit and Loss Statement, Commonsize Balance Sheet and Pofferent Ratios and Interpretation	Study abount Joint Stock Compnies Act Format of Journal	
Month April May	Chapter's Name PART - 2 Chapter 1 Accounting for share capital TEST 2. Accounting For Debentures 3. Financial Statements of the Company 4. Comprative-Commomsize Statements 5. Accounting Ratios 3. Cash flow statement	Introduction of Share and share capital: nature and types, Issue of Shares, Accounting tratment for forefieture and reisuue of shares Accounting for Share Capital Jornal entries for Issue of Debentures, Journal entries with the terms of Redemption, Issue of Debentures as Colletaral Security, Issue of Debentures other than Cash Major head-Sub Heads Major head-Sub Heads Comparative Balance Sheet and Profit and Loss Statement, Commonsize Balance Sheet and Profit and Loss Statement Calculation of different Ratios and Interpretation Preparation of Cash flow statement	Study abount Joint Stock Compnies Act Format of Journal	
Month April May	Chapter's Name PART -2 Chapter 1 Accounting for share capital TEST 2. Accounting For Debentures 3. Financial Statements of the Company 4. Comparitive-Commomsize Statements 5. Accounting Ratios 3. Cash flow statement 3. Cash flow statement 3. Cash flow statement	Introduction of Share and share capital: nature and types, Issue of Shares, Accounting traitment for forefleture and reisuue of shares Accounting for Share Capital Jornal entries for Issue of Debentures, Journal entries with the terms of Redemption, Issue of Debentures as Colletaral Security, Issue of Debentures other than Cash Major head- Sub Heads Comparative Balance Sheet and Profit and Loss Statement, Commonsize Balance Sheet and Pofferent Ratios and Interpretation	Study abount Joint Stock Compnies Act Format of Journal	
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Month April May	Chapter's Name PART -2 Chapter 1 Accounting for share capital TEST 2. Accounting For Debentures 3. Financial Statements of the Company 4. Comparitive-Commomsize Statements 5. Accounting Ratios 3. Cash flow statement 3. Cash flow statement 3. Cash flow statement	Introduction of Share and share capital: nature and types, Issue of Shares, Accounting tratment for forefieture and reisuue of shares Accounting for Share Capital Jornal entries for Issue of Debentures, Journal entries with the terms of Redemption, Issue of Debentures as Colletaral Security, Issue of Debentures other than Cash Major head-Sub Heads Major head-Sub Head and Issue Statement, Commonstize Balance Sheet and Profit and Loss Statement, Commonstize Calculation of different Ratios and Interpretation Preparation of Cash flow statement Preparation of Cash flow statement Partnership: features, Partnership Deed. Partnership: features, Partnership Act 1932 Fixed v/s fluctuating capital	Study abount Joint Stock Compnies Act Format of Journal Format of Comany's Profit and Loss Statement and Balance Sheet	
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Month April May June Jully	Chapter's Name PART - 2 Chapter 1 Accounting for share capital TEST 2. Accounting For Debentures 3. Financial Statements of the Company 4. Comprative-Commonsize Statements 5. Accounting Ratios 3. Cash flow statement 1. Accounting for Partnership Firms - Basic Concepts 2. Admission of new partner Revision 2. Admission of new partner Revision 2. Admission of new partner	Introduction of Share and share capital: nature and types, Issue of Shares, Accounting trainment for forefieture and reisuue of shares Accounting for Share Capital Jornal entries for Issue of Debentures, Journal entries with the terms of Redemption, Issue of Debentures as Colletaral Security, Issue of Debentures as Colletaral Security, Issue of Debentures other than Cash Major head-Shu Heads Comparative Balance Sheet and Profit and Loss Statement, Commonsize Balance Sheet and Profit and Loss Statement Calculation of Afferent Ratios and Interpretation Preparation of Cash flow statement Preparation of Cash flow statement Partnership: features, Partnership Deed. *Provisions of the Indian Partnership Act 1932 Fixed y/s fluctuating capital accounts. Preparation of Profit and Loss Appropriation Account, Division of profit among partners, guarantee of profits to a pactner, Past Adjustments New profit sahring ratio, Sacrificing Ratio, Goodwill, Revaluation Account and Partners Capital account, Adjustment of Capitals Change in Profit Sharing ratio among the Existing Partners	Format of Partners' Capital Accounts Format of Revaluation Account	
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Month April May June Jully August	Chapter's Name PART - 2 Chapter 1 Accounting for share capital TEST 2. Accounting For Debentures 3. Financial Statements of the Company 4. Comprative-Commonsize Statements 5. Accounting Ratios 3. Cash flow statement 1. Accounting for Partnership Firms - Basic Concepts 2. Admission of new partner Revision 2. Admission of new partner Revision 2. Admission of new partner	Introduction of Share and share capital: nature and types, Issue of Shares, Accounting traiment for forefieture and reisuue of shares Accounting for Share Capital Jornal entries for Issue of Debentures, Journal entries with the terms of Redemption, Issue of Debentures as Colletaral Security, Issue of Debentures of the three of Redemption, Issue of Debentures as Colletaral Security, Issue of Debentures of the three of Redemption, Issue of Debentures of Redemption, Issue of Re	Format of Partners' Capital Accounts Format of Revaluation Account	
Month April May June Jully August September	Chapter's Name PART - 2 Chapter 1 Accounting for share capital TEST 2. Accounting For Debentures 3. Financial Statements of the Company 4. Comprative-Commonsize Statements 5. Accounting Ratios 3. Cash flow statement PART-1 1. Accounting for Partnership Firms - Basic Concepts 2. Admission of new partner Revision 2. Admission of new partner Revision 2. Admission of new partner 3. Retirement/Death of a Partner	Introduction of Share and share capital: nature and types, Issue of Shares, Accounting trainment for forefieture and reisuue of shares Accounting for Share Capital Jornal entries for Issue of Debentures, Journal entries with the terms of Redemption, Issue of Debentures as Colletaral Security, Issue of Debentures are Capital Security, Issue of Debentures as Colletaral Security, Issue of Debentures as Comparative Balance Sheet and Profit and Loss Statement, Commonsize Balance Sheet and Profit and Loss Statement and Interpretation of Cash flow statement Preparation of Cash flow statement Partnership: features, Patturship Deed. *Provisions of the Indian Partnership Act 1932 Fixed v/s fluctuating capital accounts, Preparation of Profit and Loss Appropriation Account, Division of profit among partners, guarantee of profits to a pactiner, Past Adjustments New profit sahring ratio, Sacrificing Ratio, Goodwill, Revaluation Account and Partnes Capital account, Adjustment due to Rettring/Deceased Partner, New Profit Sharing Ratio, Caining tail, Teatment of Goodwill (as part AS 26), Adjustments for revaluation of assets and reassessment of liabilities, Revaluation account, Partners Capital Account.	Format of Partners' Capital Account Format of Revaluation Account Format of Retiring/Deceased Partner's Capital Account	
Month April May June Jully August	Chapter's Name PART - 2 Chapter 1 Accounting for share capital TEST 2. Accounting For Debentures 3. Financial Statements of the Company 4. Comprative-Commonsize Statements 5. Accounting Ratios 3. Cash flow statement 1. Accounting for Partnership Firms - Basic Concepts 2. Admission of new partner Revision 2. Admission of new partner Revision 2. Admission of new partner	Introduction of Share and share capital: nature and types, Issue of Shares, Accounting trailment for forefieture and reisuue of shares Accounting for Share Capital Jornal entries for Issue of Debentures, Journal entries with the terms of Redemption, Issue of Debentures as Colletaral Security, Issue of Debentures are Capital Security, Issue of Debentures as Colletaral Security, Issue of Debentures as Colletaral Security, Issue of Debentures and Interpretation Debentures other than Cash Major bead-Shu Heads Comparative Balance Sheet and Profit and Loss Statement, Commonsize Indiance Sheet and Profit and Loss Statement Preparation of different Ratios and Interpretation Preparation of Gash flow statement Preparation of Cash flow statement Partnership: features, Partnership Deed. *Provisions of the Indian Partnership Act 1932 Fixed v/s fluctuating capital accounts. Preparation of Profit and Loss Appropriation Account, Division of profit among partners, guarantee of profits to a paertner, Past Adjustments New profit sahring ratio, Sacrificing Ratio, Goodwill, Revaluation Account and Partnes Capital account, Adjustment of Capitals Change in Profit Sharing ratio among the Existing Partners Ascertaining the Amount due to Rertiring/Deceased Partner, New Profit Sharing Ratio, Gaining stop, Teastment of Capitals Change in Profit Sharing ratio among the Existing Partners Ascertaining the Amount due to Rertiring/Deceased Partner, New Profit Sharing Ratio, Gaining stop, Teastment of Capital Account. Executor's Loan Account Executor's Loan Account	Format of Partners' Capital Accounts Format of Revaluation Account	
Month April May June Jully August September	Chapter's Name PART - 2 Chapter 1 Accounting for share capital TEST 2. Accounting For Debentures 3. Financial Statements of the Company 4. Comprative-Commomsize Statements 5. Accounting Ratios 3. Cash flow statement PART-1 1. Accounting for Partnership Firms - Basic Concepts 2. Admission of new partner Revision 2. Admission of new partner 3. Retirement/Death of a Partner Dissolution of Partnership Firms	Introduction of Share and share capital: nature and types, Issue of Shares, Accounting furthment for forefieture and reisuue of shares Accounting for Share Capital Jornal entries for Issue of Debentures, Journal entries with the terms of Redemption, Issue of Debentures as Colletaral Security, Issue of Debentures other than Cash Major head-Sub Heads Major head-Sub Head and Issue of Debentures, Journal entries with the terms of Redemption, Issue of Debentures other than Cash Major head-Sub Head and Issue of Debentures, Journal entries with the terms of Comparative Balance Sheet and Profit and Loss Statement, Commonsize Balance Sheet and Profit and Loss Statement Preparation of Cash flow statement Preparation of Cash flow statement Preparation of Cash flow statement Preparation of Profit and Loss Appropriation Account, Division of profit among partners, guarantee of profits to apacture, Past Adjustments New profit sharing ratio, Sacrificing Ratio, Goodwill, Revaluation Account and Partnes Capital account, Adjustment of Capitals Change in Profit Sharing ratio among the Existing Partners Ascertaining the Amount due to Rettring/Deceased Partner, New Profit Sharing Ratio, Caining ratio, Treatment of goodwill (as per AS 26), Adjustments for revaluation of assets and reassessment of liabilities, Revaluation account, Partners Capital Account	Format of Partners' Capital Accounts Format of Retring/Deceased Partner's Capital Account Format of Executor's Loan Account	
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May	Test	Test]	
June	3. Business Environment	Business Environment - concept and importance Dimensions of Business Environment - Economic, Social, Technological,	Study of business evironment from current industrial situations	
	S. Sourious Elimination	Political and Legal Demonetization - concept and features Marketing - concept, functions and philosophies	Catay or secured or secured and catalog catalo	
July	11. Marketing	Marketing Mix – concept and elements Product – branding, labelling and packaging – concept Price - Concept, Factors determining price Physical Distribution – concept, components and channels of distribution Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations	Prepare a project for a new product marketing mix	
	4. Planning	Planning: concept, importance and limitation Planning process Single use and Standing Plans. Objectives, Strategy, Policy, Procedure, Method, Rule, Budget and Programme	Chart and a mind map for types of plans	
August	5. Organizing	Organising: Concept and importance Organising Process Structure of organisation- functional and divisional concept. Formal and informal organization - concept Delegation: concept, elements and importance Decentralization: concept and importance	Group discussion on formal and informal concept of organisation	
	6. Staffing	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 - vestibule training, apprenticeship training and immership training	Case study for recruitment and selection	
September	7. Directing	Directing: Concept and importance Elements of Directing 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?	Stories of Suscessful business leadres	
October	8. Controlling	Controlling - Concept and importance Relationship between planning and controlling Steps in process of control	Chart for steps in the process of controlling	
November	9. Financial Management	Financial Management: Concept, role and objectives Financial decisions: investment, financing and dividend - Meaning and factors affecting Financial Planning - concept and importance Capital Structure - concept and factors affecting their Fixed and Working Capital - Concept and factors affecting their requirements	Discussion on Financial planning of Current firm	
	10. Financial Markets	Financial Markets: Concept Money Market: Concept Capital market and its types (primary and secondary) Stock Exchange - Functions and trading procedure Securities and Exchange Board of India (SEBI) - objectives and functions	Study of Role of SEBI	
		Consumer Protection: Concept and importance		
December	12. Consumer Protection	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and	Case study based on Consumer Protection Act and rights and responsibilities of a consumer	
December January	12. Consumer Protection	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available		
	12. Consumer Protection	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs)		
January		The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complain?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs) Revision and Pre-Boards Economics	and rights and responsibilities of a consumer	
	12. Consumer Protection Chapter's Name Indian Economic Development : Chapter 1 Indian Economy on the Eve of Independence	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs) Revision and Pre-Boards Economics Topic become familiar with the state of the Indian economy in 1947, the year of India's Independence.	and rights and responsibilities of a consumer Writing Skills/ Activity/ Practical Prepare a list of goods and services that were available to people in pre- independence India in rural and urban areas. Compare it with the consumption	
January	Chapter's Name Indian Economic Development: Chapter 1 Indian	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs) Revision and Pre-Boards Economics	and rights and responsibilities of a consumer Writing Skills/ Activity/ Practical Prepare a list of goods and services that were available to people in pre-	
January Month	Chapter's Name Indian Economic Development: Chapter 1 Indian Economy on the Eve of Independence Indian Economic Development: Chapter 2 Indian Economy 1950-1990 Introductory Macroeconomics: Chapter 1	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs) Revision and Pre-Boards Economics Topic become familiar with the state of the Indian economy in 1947, the year of India's Independence, understand the factors that led to the underdevelopment and stagnation of the Indian economy. The goals of Five Year Plans Agriculture	and rights and responsibilities of a consumer Writing Skills/ Activity/ Practical Prepare a list of goods and services that were available to people in pre- independence India in rural and urban areas. Compare it with the consumption pattern of such goods and services by the people today. Highlight the perceptible difference in the people's standard of living.	
January	Chapter's Name Indian Economic Development: Chapter 1 Indian Economy on the Eve of Independence Indian Economic Development: Chapter 2 Indian Economy 1950-1990 Introductory Macroeconomics: Chapter 1 Introduction	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs) Revision and Pre-Boards Economics Topic become familiar with the state of the Indian economy in 1947, the year of India's Independence. understand the factors that led to the underdevelopment and stagnation of the Indian economy. The goals of Five Year Plans Agriculture Industry and trade Trade policy: Important subsitution Introductory Macroeconomics : Chapter 1 Introduction	and rights and responsibilities of a consumer Writing Skills/ Activity/ Practical Prepare a list of goods and services that were available to people in pre- independence India in rural and urban areas. Compare it with the consumption pattern of such goods and services by the people today. Highlight the perceptible difference in the people's standard of living. Prepare pie chart on the occupational structure of the Indian economy. Differenciate between: Microeconomics & Macroeconomics	
January Month	Chapter's Name Indian Economic Development: Chapter 1 Indian Economy on the Eve of Independence Indian Economic Development: Chapter 2 Indian Economy 1950-1990 Introductory Macroeconomics: Chapter 1	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs) Revision and Pre-Boards Economics Topic become familiar with the state of the Indian economy in 1947, the year of India's Independence. understand the factors that led to the underdevelopment and stagnation of the Indian economy. The goals of Five Year Plans Agriculture Industry and trade Trade policy: Important subsitution Introductory Macroeconomics : Chapter 1 Introduction	writing Skills/ Activity/ Practical Prepare a list of goods and services that were available to people in pre- independence India in rural and urban areas. Compare it with the consumption pattern of such goods and services by the people today. Highlight the perceptible difference in the people's standard of living. Prepare pie chart on the occupational structure of the Indian economy.	
January Month	Chapter's Name Indian Economic Development: Chapter 1 Indian Economy on the Eve of Independence Indian Economic Development: Chapter 2 Indian Economy 1950-1990 Introductory Macroeconomics: Chapter 1 Introduction Introductory Macroeconomics: Chapter 2 National Income AccountingContinue	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs) Revision and Pre-Boards Economics Topic become familiar with the state of the Indian economy in 1947, the year of India's Independence, understand the factors that led to the underdevelopment and stagnation of the Indian economy. The goals of Five Year Plans Agriculture Industry and trade Industry and trade Introductory Macroeconomics: Chapter 1 Introduction Circular flow of Income National income and related aggregates: Some basic concepts Measurement of national inco, me: Methods of calculating national income	and rights and responsibilities of a consumer Writing Skills/ Activity/ Practical Prepare a list of goods and services that were available to people in pre- independence India in rural and urban areas. Compare it with the consumption pattern of such goods and services by the people today. Highlight the perceptible difference in the people's standard of living. Prepare pie chart on the occupational structure of the Indian economy. Differenciate between: Microeconomics & Macroeconomics Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method	
January Month	Chapter's Name Indian Economic Development : Chapter 1 Indian Economy on the Eve of Independence Indian Economic Development : Chapter 2 Indian Economy 1950-1990 Introductory Macroeconomics : Chapter 1 Introduction Introductory Macroeconomics : Chapter 2 National	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs) Revision and Pre-Boards Economics Topic become familiar with the state of the Indian economy in 1947, the year of India's Independence, understand the factors that led to the underdevelopment and stagnation of the Indian economy. The goals of Five Year Plans Agriculture Industry and trade Industry and trade Introductory Macroeconomics: Chapter 1 Introduction Circular flow of Income National income and related aggregates: Some basic concepts Measurement of national inco, me: Methods of calculating national income	and rights and responsibilities of a consumer Writing Skills/ Activity/ Practical Prepare a list of goods and services that were available to people in pre- independence India in rural and urban areas. Compare it with the consumption pattern of such goods and services by the people today. Highlight the perceptible difference in the people's standard of inling. Prepare pie chart on the occupational structure of the Indian economy. Differenciate between: Microeconomics & Macroeconomics Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method	
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Month April	Chapter's Name Indian Economic Development: Chapter 1 Indian Economy on the Eve of Independence Indian Economic Development: Chapter 2 Indian Economy 1950-1990 Introductory Macroeconomics: Chapter 1 Introduction Introductory Macroeconomics: Chapter 2 National Income AccountingContinue	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs) Revision and Pre-Boards Economics Topic become familiar with the state of the Indian economy in 1947, the year of India's Independence. understand the factors that led to the underdevelopment and stagnation of the Indian economy. The goals of Five Year Plans Agriculture Industry and trade Industry and trade Industry and trade Circular flow of Income National income and related aggregates: Some basic concepts Measurement of national inco,me: Methods of calculating national income Circular flow of Income National income and related aggregates: Some basic concepts Measurement of national inco,me: Methods of calculating national income Circular flow of Income National income and related aggregates: Some basic concepts Measurement of national inco,me: Methods of calculating national income Methods of calculating national income: Methods of calculating national income: Methods of calculating national income: Methods of calculating national income Background Librelisation Giobalisation Indian economy during reforms	and rights and responsibilities of a consumer Writing Skills/ Activity/ Practical Prepare a list of goods and services that were available to people in pre- independence India in rural and urban areas. Compare it with the consumption pattern of such goods and services by the people today. Highlight the perceptible difference in the people's standard of living. Prepare pie chart on the occupational structure of the Indian economy. Differenciate between: Microeconomics & Macroeconomics Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method Was it necessary for India to introduce economic reforms at the behest of World Bank and International Monetary Fund? Was there no alternative for the government to solve the balance of payments crisis? Discuss in the classroom.	
Month April May	Chapter's Name Indian Economic Development: Chapter 1 Indian Economy on the Eve of Independence Indian Economic Development: Chapter 2 Indian Economy 1950-1990 Introductory Macroeconomics: Chapter 1 Introduction Introductory Macroeconomics: Chapter 2 National Income AccountingContinue Introductory Macroeconomics: Chapter 2 National Income AccountingContinue Introductory Macroeconomics: Chapter 2 National Income AccountingContinue	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs) Revision and Pre-Boards Revision and Pre-Boards	and rights and responsibilities of a consumer Writing Skills/ Activity/ Practical Prepare a list of goods and services that were available to people in pre- independence India in rural and urban areas. Compare it with the consumption pattern of such goods and services by the people today. Highlight the perceptible difference in the people's standard of living. Prepare pie chart on the occupational structure of the Indian economy. Differenciate between: Microeconomics & Macroeconomics Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method Numerical Problems on different methods of calculation of National Income a- Product Method c- Expenditure Method Numerical Problems on different methods of calculation of National Income a- Product Method c- Expenditure Method Numerical Problems on different methods of calculation of National Income a- Product Method c- Expenditure Method Numerical Problems on different methods of calculation of National Income a- Product Method c- Expenditure Method Was it necessary for India to introduce economic reforms at the behest of World Bank and International Monetary Fund? Was there no alternative for the government to solve the balance of payments crisis? Discuss in	
Month April May	Chapter's Name Indian Economic Development: Chapter 1 Indian Economy on the Eve of Independence Indian Economic Development: Chapter 2 Indian Economy 1950-1990 Introductory Macroeconomics: Chapter 1 Introduction Introductory Macroeconomics: Chapter 2 National Income AccountingContinue Indian Economic Development: Chapter 3 Librelisation, Globalisation and Privatisation Introductory Macroeconomics: Chapter 3 Introductory Macroeconomics: Chapter 3 Librelisation, Globalisation and Privatisation	The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs) Revision and Pre-Boards Revision and Pre-Boards	Writing Skills/ Activity/ Practical Prepare a list of goods and services that were available to people in pre- independence India in rural and urban areas. Compare it with the consumption pattern of such goods and services by the people today. Highlight the perceptible difference in the people's standard of living. Prepare pie chart on the occupational structure of the Indian economy. Differenciate between: Microeconomics & Macroeconomics Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method b- Income Method c- Expenditure Method Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method Was it necessary for India to introduce economic reforms at the behest of World Bank and International Monetary Fund? Was there no alternative for the government to solve the balance of payments crisis? Discuss in the classroom. Numerical problems on: Money supply	
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	Indian Economic Development : Chapter 5 Rural Development	What is rural development? Credit marketing in rural areas Agriculture market system	Enlist some problems faced by farmers during the initial years of organic farming.	
		Pagnotine Intales, system (View Pagnotine Interest System) Sustanable development and organic farming	-	
September				
	EconomyContinue	Budget: Meaning, Features Objectives Budget: Structure and Components Meaning of Budget receipts and expenditure Budget deficit and its types	Numericals problems on : Revenue deficit Fiscal deficit Primary deficit	
			.,	
October	Indian Economic Development : Chapter 6 Employment : Growth, Informalisation and Other Issues	Workers and employment Participation of people in employment Self-employed and hired workers Employment in firms, factories and offices Growth and changing structure of employment Informalisation of Indian workforce Government and employment generation	In recent years, you may have noticed that many voluntary organisations also take initiatives to generate employment in hilly and rdy land regions. If you find such initiatives in your locality, visit and prepare a report	
	Introductory Macroeconomics : Chapter 5 Governmen Government Budget and the EconomyContinue	Budget: Meaning, Features Objectives Budget: Structure and Components Meaning of Budget receipts and expenditure Budget deficit and its types	Numericals problems on : Revenue deficit Fiscal deficit Primary deficit	
	Indian Economic Development : Chapter 7 Environment and sustainable development	Environment: defination and functions State of India's environment Sustainable development Strategies for sustainable development	Prepare a chart on the causes and remedies of soil erosion in India.	
November	Introductory Macroeconomics : Chapter 5 Governmen Government Budget and the EconomyContinue	Budget: Meaning, Features Objectives Budget: Structure and Components Meaning of Budget receipts and expenditure Budget deficit and its types	Numericals problems on : Revenue deficit Fiscal deficit - primary deficit	
December	Indian Economic Development : Chapter 8 Comparative Development Experiences of India and Neighbous	Developmental path - A snapshot Demographic indicators GDP and sectors Indicators of human development Development strategies - An appraisal	A class debate on the issue of free trade between India and China and India and Pakistan.	
	Introductory Macroeconomics : Chapter 6 Open Economy Macroeconomics	The balance of payments Foreign exchange rate	Numerical problems on : Current account balance Capital account balance	
January		AISSCE - Practical / Viva 2025-26		
W	Chantaria Nama	ENTREPRENEURSHIP	Water Chillian Andread Burney	
Month April	Chapter's Name Chpter 1 Entrepreneurial Opportunity	Topic	Writing Skills/Activity/ Practical	
		Sensing Enterpreneurial/Opportunities Environment Scanning and Problem Identification Spotting Trends Creativity and Innovation *Selecting the Right Opportunity	practical project for probelem identification and turn it in an opportunity	
June	Chpter 2: Entrepreneurial Planning	Forms of business organization - Soleproprietorship, Partnership, Company Business Plan: concept, format "Components: "Organisational plan; Operational plan; Production plan; Production plan; Financial plan; Marketing plan; Marketing plan; Human Resource planning"	Project for business planning	
July	Unit 3: Enterprise Marketing	Marketing and Sales Strategy Branding, Logo, Tagline Promotion Strategy	Product Marketing	
August	Unit 3: Enterprise Marketing (Continue)	Negotiations - Importance and Methods Customer Relationship Management Vendor Management	Project preparation	
	Chpater 4: Enterprise Growth Strategies	Franchising: Concept, types, advantages,limitations. Mergers and Acquisition: Concept,reasons, types.		
September	Chpater 4: Enterprise Growth Strategies	Reasons for failure of Mergers and Acquisitions	Chart preparation for Types of franchising	
	Revision			
October	Chapter 5: Business Arithmetic	Unit of Sale, Unit Cost for multiple products or services "Break even Analysis for multiple products or services	Numerical solution	
November	Unit 6: Resource Mobilization	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers	Group discussion on financial resources	
December	Unit 6: Resource Mobilization (Continue)	Angel Investor: Features	Study Of Share market	
January		Revision		
		PRE-BOARDS		
		W. 1. 1		
Month	Chapter's Name	Physical Education Topics	Writing Skills/Activity/ Practical	
April	Chapt. 1. Planning in sports		Practical planning of league system on Board and on ground practical of different tournament pattern Drawing fixtures for the different types of tournaments	
May	Chapt .1. Planning in sports (Continued)	seeding, special seeding, American method of finding winners benefits of knockout ans league matches	Practical planning of league system on Board and on ground practical of different tournament pattern	
June	Chapt .2 Sports and nutrition	Nutrition, Micro Nutrients, Macro Nutrients, Minerals, BMI, Eating disorders, Anorexia, Bulimia, Pitfalls in dieting, Food Supplimentts	Sports Nutrition Quiz and showing video.	
July	Chapt. 3. Yoga and life style	Physical Fitness, Wellness & Lifestyle • Meaning & Importance of Physical Fitness, Wellness & Lifestyle • Components of physical fitness and Wellness • Components of Health related fitness	Different asana practices and Surya Namaskar Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh Matsyendrasana	
August	Chapt.4. Sports for CWSN	Causes of Disorders, Autism , OCD, ADHD, SPD, Diabaliitit Etiquette and causes and treatment for different disorders	Making Charts on different postures. Showing Common Postural Deformities video. Types of Disability, its causes & nature (cognitive disability, intellectual disability, physical disability).	
	Chapt. 5. Children and sports, Women and Sports	Casuses of Disorders, Osteoporosis, Bulimia,	Making Charts on different postures. Showing Common Postural Deformities video.	
September	Chapt. 6. Test, Measurement and Evaluation	Motor Fitness test General Motor Fitness – Barrow three item general motor	Practical of Motor Fitness Test"Making Charts on different postures. Showing Common Postural Deformities video."	
October	Chapt. 7. Sports and medicine	Sports medicine also known as Sport and Exercise Medicine (SEM) is a branch of medicine that specialises in the treatment and prevention of injuries related to	Classification (Soft Tissue)	
November December	Chapt. 8. Biomechanics and sports	of medicine that specialises in the treatment and prevention of injuries related to Meaning And Importance of Biomechanics in sports Newton law of motion & its application in sports Types of movements(flexion, Extension, Adhuction,	Injuries: (Abrasion, Contusion, Laceration, Incision, Sprain & Strain) Bone & Joint Endurance - Definition, types & methods to develop Endurance - Continuous Training, Interval Training & Fartlek Training	
	Chapt. 9. Psychology and Sports	Dyes on involumental extension, Audiction, Understanding Stress & coping Strategies Personality, its definition & types, - Trait & Types & big five theory Motivation, its types & techniques Exercise Adherence, Reasons to Exercise, Benefits of Exercise Strategies for Enhancing Adherence to Exercise	Preparation of final draft of Project File	
I		Meaning, concept & types of Aggressions in Sports		

	Chapt. 10. Training in sports	Strength-definition, types &method Endurance- definition, types &method	Preparation of final draft of Project File
		Speed-definition, types &method Flexibility- definition, types &method	
		Coordinative Abilities- definition and types Circuit Training – intro & importance	
January		Pre-Board Exams	
		APPLIED MATHEMATICS	
Month	Chapter's Name	Topic	Writing Skills/ Activity/ Practical
April	Ch-2 Matrices	Inverse of A Matrix Solving system of simultaneous equations using matrix method	Using spresdsheet find the inverse of a matrices.
		Cramer's Rule Algebra of Matrices	
		Matrices and types of Matrices Determinants	
		Equality of Matrices Transpose of a Matrix	
	Ch- 2 Determinants	Symmetric and Skew Symmetric Matrix Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and	Draw Mid map
		applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system	
May	Ch- 2 Determinants (Continued)	of linear equations by examples. solving system of linear equations in two or three variables (having unique	Solve application base Case Study
June		solution) using inverse of a matrix. Congruence Modulo	
June	Ch-1Numbers, Quantification and Numerical Applications	Congruence Modulo Modulo Arithmetic Numerical Inequalities	To understand the concepts of Congruence Modulo and Equivalence Class by findingcongruence modulo 6 and of first 50 natural numbers. Segregate the above results on
		Alligation And Mixture	the basis of their remainders for mod 6.
		Numerical Problems Boats and Streams (Upstream And Downstream) Races and Games	
		Pipes and Cisterns	
	chapter -1 Relations and Functions	Components of Time Series Methods of Measuring Trend	Collect data from newspapers on traffic, sports activities and market trends and use excel to study future trends
		Time Series Secular Trend	
July	Ch-3A- Differentiation and its Applications	Time Series Analysis for Univariate Data Marginal Cost and Marginal Revenue using Derivatives	Find Area between curves.
	**	Maxima and Minima Application of Derivatives	
		Higher-Order Derivatives Increasing /Decreasing Functions	
August	Ch- 3B- Integration	Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple	Activity: To evaluate the definite integral from a to b of given function as the limit of a sum and verify it by actual integration.
September	Ch-8 Applications of the Integrals	Applications in finding the area under simple curves, especially lines, circles/	,, we will integrate.
	Ch-5 Inferential Statistics	parabolas/ellipses (in standard form only) Population and Sample	Project Work: Analysis of population migration data – positive and negative influence on
		t-Test (One-Sample T-Test and Two Independent Groups T-Test) Parameter and Statistics and Statistical Interferences	urbanization
October	Ch-7 Financial Mathematics	Calculation of Emi Linear Method of Depreciation	Stock Market data sheet on excel Real life examples of sinking fund, Advantages of Sinking Fund, Sinking Fund vs. Savings
		Perpetuity Sinking Funds	account
		Compound Annual Growth Rate Calculation of Returns	
	Ch-8 Linear Programming Problem	Nominal Rate of Return Feasible and Infeasible Solutions	Assissment of a common by shooting a contain number of complexion to complete the
	Cn-8 Linear Programming Problem	Optimal Feasible Solution	Assignment of a company by choosing a certain number of employees to complete the assignment within the required
		Introduction and Related Terminology Feasible and Infeasible Regions Mathematical Formulation of linear programming problem	deadline, given that a single person works on only one job within the assignment. In this type of problem, the number of employees, the work-hours of each employee etc. are
		Graphical method of solution for problems in two variables	considered as constraints and the total assignment to be done is treated as objective function.
November	Ch-4Probability Distributions	Variance Mathematical Expectation	Find conditional probability of an event.
November	Ch-4Probability Distributions	Variance Mathematical Expectation Normal Distribution Probability Distribution	Find conditional probability of an event.
		Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Bisnomial Distribution	
November	Ch-4Probability Distributions Ch-3C-Differential Equations and Modeling	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Binomial Distribution Application of Differential Equations Differential Equations	Find conditional probability of an event. Data Analysis through Excel
		Variance Mathematical Expectation Normal Distribution Probability Distribution Probability Distribution Poisson Distribution Binomial Distribution Application of Differential Equations	
December		Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Binomial Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams	
December January Month	Ch-3C-Differential Equations and Modeling Chapter's Name	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Binomial Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams Mathematics Topic	Data Analysis through Excel Writing Skills/ Activity/ Practical
December January	Ch-3C-Differential Equations and Modeling	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Binomial Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Formulating and Solving Differential Equations Pre-Board Exams Mathematics Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices, Operations on	Data Analysis through Excel
December January Month	Ch-3C-Differential Equations and Modeling Chapter's Name	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Binomial Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Formulating and Solving Differential Equations Pre-Board Exams Mathematics Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication.	Data Analysis through Excel Writing Skills/ Activity/ Practical
December January Month	Ch-3C-Differential Equations and Modeling Chapter's Name	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Binomial Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Formulating and Solving Differential Equations Pre-Board Exams Mathematics Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication of surfaces and existence of non-zero matrices whose product is the zero matric existence of non-zero matrices whose product is the zero matrix (existing to square matrices) of order 2).	Data Analysis through Excel Writing Skills/ Activity/ Practical
December January Month	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Binomial Distribution Application of Differential Equations Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams Mathematics Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (existin to square matrices of order 2), Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entires)	Data Analysis through Excel Writing Skills/ Activity/ Practical
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December January Month	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Differential Equations Pre-Board Exams Mathematics Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and multiplication with a scalar. Simple properties of addition, multiplication and residenciation with a scalar. Simple properties of addition, multiplication and multiplication with a scalar. Simple properties of addition, multiplication and multiplication with a scalar. Simple properties of addition, multiplication and multiplication with a scalar. Simple properties of the multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists, (Here all matrices will have real entries). Determinant of a square matrix (up to 3 x 3 matrices), minors, or-factors and	Data Analysis through Excel Writing Skills/Activity/ Practical Mind map
December January Month	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Formulating and Solving Differential Equations Pre-Board Exams Mathematics Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication with a scalar Simple Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries). Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system	Data Analysis through Excel Writing Skills/Activity/ Practical Mind map
December January Month April	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams **Mathematics** Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addiding and multiplication and multiplication with a scalar. Simple matrices with a charactery of the control of the matrices and profits of the properties of the	Data Analysis through Excel Writing Skills/Activity/ Practical Mind map Quiz - Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1,
December January Month April	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams **Mathematics** Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (existic to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entiries). Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples. Solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix. Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.	Data Analysis through Excel Writing Skills/Activity/ Practical Mind map Quiz Quiz Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m} : 1 is parallel to m} is an equivalence relation. Activity 2: To draw the graph of sin x, using the graph of sin x and demonstrate the concept
December January Month April	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams **Mathematics** Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (estito square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entiries). Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a trangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples. solving system of linear equations in two or three variables (having unique solution) using threes red 1 matrix. Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions: Continuity and differentiability, chain rule, derivative of inverse trigonometric functions.	Data Analysis through Excel Writing Skills/Activity/ Practical Mind map Quiz - Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m} is an equivalence relation.
December January Month April May June	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Formulating and Solving Differential Equations Pre-Board Exams Mathematics Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices Addition and multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (estito square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entiries). Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a trangle. Adjoint and inverse of a square matrix, consistency, inconsistency and number of solutions of system of linear equations by examples. solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix. Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions, the sim-1 x, cos-1 x and tan-1 x, derivative of implicit functions. Concept of exponential and locarithmic functions.	Data Analysis through Excel Writing Skills/Activity/ Practical Mind map Quiz Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m} is an equivalence relation. Activity 2:To draw the graph of sin-1 x, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x) Activity 3:To verify Rolle's Theorem.
December January Month April May June	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Formulating and Solving Differential Equations Formulating and Solving Differential Equations Pre-Board Exams **Pre-Board Exams** **P	Data Analysis through Excel Writing Skills/Activity/ Practical Mind map Quiz Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m} is an equivalence relation. Activity 2:To draw the graph of sin-1 x, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x) Activity 3:To verify Rolle's Theorem.
December January Month April May June	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Formulating and Solving Differential Equations Pre-Board Exams **Pre-Board Exams** **Pre-Bo	Data Analysis through Excel Writing Skills/ Activity/ Practical Mind map Quiz - Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: its parallel to m}: is an equivalence relation. Activity 2: To draw the graph of sin-1 x, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x) Activity 3: To verify Rolle's Theorem.
December January Month April May June	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-5 Continuity and Differentiability Ch-6 Applications of Derivatives	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams Mathematics Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero Invertible matrices and proof of the uniqueness of inverse, if it exists, (Here all matrices will have real entries). Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of innear equations by examples. Solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix. Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions Concept of exponential and logarithmic functions. Derivatives of logarithmic functions. Septimize of change of quantities, increasing/decreasing functions, maxima and minima (first derivative est motivated geometrically and scoond derivative est given as er of change of quantities, increasing/decreasing functions, maxima and minima (first derivative est motivated geometrically and second derivative est given as er of change of quantities.	Data Analysis through Excel Writing Skills/ Activity/ Practical Mind map Quiz Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1is parallel to m}: an equivalence relation. Activity 1: To verify and the graph of sin 1x, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x) Activity 3: To verify Rolle's Theorem. Activity 4:To understand the concepts of decreasing and increasing functions Activity 4:To understand the concepts of decreasing and increasing functions Activity 5: To verify that the rectangles of the same perimeter, the square has the maximum area.
December January Month April May June	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-5 Continuity and Differentiability	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Formulating and Solving Differential Equations Formulating and Solving Differential Equations Pre-Board Exams Mathematics Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices with a square matrix es of order 2). matrices will have real entries). Determinant of a square matrix (up to 3 x 3 matrices), minore, oc factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix, Consistency, unconsistency and number of solutions of system of linear equations by examples. Solving system of linear equations in two or three variables (having unique oblition) uning merce of a matrix. Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and note functions. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic functions. September of refunctions are consensed in parametric forms. Second order derivatives: and exponential functions. Bogrithmic differentiation, derivative of inferentiations in exponential functions and confidence of change of quantities, increasing/decreasing functions, maxima and minima (first deriv	Data Analysis through Excel Writing Skills/Activity/ Practical Mind map Quiz Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m}: an equivalence relation. Activity 3: To verify away the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x) Activity 3: To verify Rolle's Theorem. Activity 4: To understand the concepts of decreasing and increasing functions Activity 5: To verify that amongst all the rectangles of the same perimeter, the square has
December January Month April May June	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-5 Continuity and Differentiability Ch-6 Applications of Derivatives	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams **Pre-Board Exams** **Mathematics** Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices with a square matrix or unsupences of inverse, if it exists, (Here all matrices will have real entiries). Defendants of a square matrix, (poststency, innoses, ce factors and existence of a sparance matrix, Consistency, inconsistency and number of solutions of system of linear equations in two or three variables (having unique solution) uning inverse of a matrix. Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and note functions. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic functions, serior intuitions concepts of derivatives: and colorable experience of the derivative serior of hamped concepts of the derivative set given as a provable tool, Simple problems (that illustrate lancions by substitution, by partial fractions and by apras, Evaluation of simple integrals of the following types and prob	Data Analysis through Excel Writing Skills/ Activity/ Practical Mind map Writing Skills/ Activity/ Practical Mind map Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m}: is an equivalence relation. Activity 3: To verify was the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x) Activity 3: To verify Rolle's Theorem. Activity 4: To understand the concepts of decreasing and increasing functions Activity 5: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Activity 6: To evaluate the definite integral from a to b of given function as the limit of a sum
December January Month April May June July	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-5 Continuity and Differentiability Ch-6 Applications of Derivatives Ch-7 Integrals	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams **Mathematics** Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (existion to square matrices of order 2), Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entires). Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a trangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples. Solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix. Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and noto functions. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions, file sim-1 x, cos-1 x and tan-1 x, derivative of inverse trigonometric functions in the proper of the	Data Analysis through Excel Writing Skills/ Activity/ Practical Mind map Writing Skills/ Activity/ Practical Mind map Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m}: is an equivalence relation. Activity 3: To verify was the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x) Activity 3: To verify Rolle's Theorem. Activity 4: To understand the concepts of decreasing and increasing functions Activity 5: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Activity 6: To evaluate the definite integral from a to b of given function as the limit of a sum
December January Month April May June	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-5 Continuity and Differentiability Ch-6 Applications of Derivatives Ch-7 Integrals Ch-8 Applications of the Integrals	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Formulating and Solving Differential Equations Pre-Board Exams Nathematics	Data Analysis through Excel Writing Skills/ Activity/ Practical Mind map Writing Skills/ Activity/ Practical Mind map Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m! is an equivalence relation. Activity 2:To draw the graph of sin 1 x, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x) Activity 3:To verify Rolle's Theorem. Activity 4:To understand the concepts of decreasing and increasing functions Activity 5: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Activity 6: Activity 3: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Activity 6: To evaluate the definite integral from a to b of given function as the limit of a sum and verify it by actual integration.
December January Month April May June July	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-5 Continuity and Differentiability Ch-6 Applications of Derivatives Ch-7 Integrals	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams **Mathematics** Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restinct to square matrices of order 2), Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entires). Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a trangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples. Solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix. Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and noto functions. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions. Concept of expoemital and logarithmic functions. Derivative of functions covered functions in the problems of the differentiation. Integration of a variety of functions by summers of a matrix. Types of relations of derivatives: and or expensed in parametric forms. Second order derivatives of functions covered functions. Sugarithmic differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple i	Data Analysis through Excel Writing Skills' Activity/ Practical Mind map Writing Skills' Activity/ Practical Mind map Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m}: is an equivalence relation. Activity 3: To verify and the fine y = x) Activity 3: To verify Rolle's Theorem. Activity 4: To understand the concepts of decreasing and increasing functions Activity 4: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Activity 6: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area.
December January Month April May June July August	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-5 Continuity and Differentiability Ch-6 Applications of Derivatives Ch-7 Integrals Ch-8 Applications of the Integrals Ch-12 Linear Programming	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams Nathematics	Data Analysis through Excel Writing Skills' Activity/ Practical Mind map Quiz Quiz Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}. Is parallel to m} is an equivalence relation. Activity 2:To draw the graph of sin-1 x, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x) Activity 3:To verify Rolle's Theorem. Activity 4:To understand the concepts of decreasing and increasing functions Activity 6:To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Activity 6:To veralute the definite integral from a to b of given function as the limit of a sum and verify it by actual integration. Group assessment
December January Month April May June July	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-5 Continuity and Differentiability Ch-6 Applications of Derivatives Ch-7 Integrals Ch-8 Applications of the Integrals	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams Mathematics Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restribe to square matrices of order 2), Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entires). Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a trangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples. Solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix. Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and noto functions. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions. Continuity and differentiability, chain rule, derivative of impecting timetions. Continuity and differentiability, chain rule, derivative of impecting functions of experses of directions and the partitive of implication functions expersed in parametric forms. Second order derivatives Applications of derivatives: and and large transiti	Data Analysis through Excel Writing Skills/ Activity/ Practical Mind map Writing Skills/ Activity/ Practical Mind map Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m! is an equivalence relation. Activity 2:To draw the graph of sin-1 x, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x) Activity 3:To verify Rolle's Theorem. Activity 4:To understand the concepts of decreasing and increasing functions Activity 5: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Activity 6:To evaluate the definite integral from a to b of given function as the limit of a sum and verify it by actual integration.
December January Month April May June July August	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-5 Continuity and Differentiability Ch-6 Applications of Derivatives Ch-7 Integrals Ch-8 Applications of the Integrals Ch-12 Linear Programming	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams **Mathematics** Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restinct to square matrices of order 2), Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entires). Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a trangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples. Solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix. Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and noto functions. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions. Concept of exponential and logarithmic functions. Derivatives of impectations of exponential functions. Logarithmic differentiation, derivative of impectations of exponential functions in the complex of the state of change of quantities, increasing/decreasing functions maxima and minima (first derivarive test motivated geometrically and second derivative leaf given as a provable tool). Simple problems that ultuarities appraised as of definite integrals of a fo	Data Analysis through Excel Writing Skills' Activity/ Practical Mind map Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m}: an equivalence relation. Activity 2: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m}: an equivalence relation. Activity 3: To verify and the fine y = x) Activity 3: To verify Rolle's Theorem. Activity 4: To understand the concepts of decreasing and increasing functions Activity 5: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Activity 6: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Group assessment Activity 7: To verify that angle in a semicircle is a right angle, using vector method.
December January Month April May June July August	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-5 Continuity and Differentiability Ch-6 Applications of Derivatives Ch-7 Integrals Ch-8 Applications of the Integrals Ch-12 Linear Programming	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Binomial Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams **Mathematics** Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restinct to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entires). Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a trangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples. Solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix. Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and noto functions. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions. Concept of exponential and logarithmic functions, derivative of implicit functions and the properties of differentiation, derivative of functions exponential functions. Logarithmic functions and by parts, Evaluation of simple functions in survess process of differentiation, negration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them-Fundamental Theorem	Data Analysis through Excel Writing Skills' Activity/ Practical Mind map Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m}: an equivalence relation. Activity 2: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m}: an equivalence relation. Activity 3: To verify and the fine y = x) Activity 3: To verify Rolle's Theorem. Activity 4: To understand the concepts of decreasing and increasing functions Activity 5: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Activity 6: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Group assessment Activity 7: To verify that angle in a semicircle is a right angle, using vector method.
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December January Month April May June July August October	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-2 Inverse Trigonometric Functions Ch-7 Integrals Ch-6 Applications of Derivatives Ch-7 Integrals Ch-12 Linear Programming Ch-10 Vectors Ch-11 Three - dimensional Geometry	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams **Mathematics** Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication of multiplication and scalar multiplication. Noncommutativity of multiplication of multiplication and scalar multiplication. Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples. John Solution of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples. John Solution of Properties of the scalar properties of a square matrix. Consistency inconsistency and number of solutions of system of linear equations by examples. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic functions. Septensed in parametric forms. Second order derivatives: Applications of derivatives: and conformative of inverse trigonometric functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic functions as exponential functions. App	Data Analysis through Excel Writing Skills/ Activity/ Practical Mind map Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, m}: 1 is parallel to m}: an equivalence relation. Activity 2: To warfy that an equivalence relation. Activity 3: To verify and be graph of sin 1x, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x) Activity 4: To understand the concepts of decreasing and increasing functions Activity 5: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Activity 6: To evaluate the definite integral from a to b of given function as the limit of a sum and verify it by actual integration. Group assessment Activity 7: To verify that angle in a semicircle is a right angle, using vector method. Activity 8: To sketch the graphs of a rise to x and log x, a > 0, a is not equal to 1 and to examine that they are mirror images of each other. Activity 9: To measure the shortest distance between two skew lines and verify it analytically.
December January Month April May June July August	Ch-3C-Differential Equations and Modeling Chapter's Name Ch-3 Matrices Ch-4 Determinants Ch-4 Determinants (Continued) Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-5 Continuity and Differentiability Ch-6 Applications of Derivatives Ch-7 Integrals Ch-8 Applications of the Integrals Ch-12 Linear Programming Ch-10 Vectors	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Poisson Distribution Poisson Distribution Application of Differential Equations Differential Equations Formulating and Solving Differential Equations Differential Equations Formulating and Solving Differential Equations Pre-Board Exams **Mathematics** Topic Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication will reproduce the properties of addition, multiplication and scalar multiplication. Noncommutativity of multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restribe to square matrices of order 2). multices will have real entiries). Determinant of a square matrix (up to 3 x3 matrices), minors, co-factor and applications of decenoments in finding the area of a triangle. Adjoint and inverse of Illustrices will have real entiries). Determinant of a square matrix (up to 3 x3 matrices), minors, co-factor and applications of decenoments in finding the area of a triangle. Adjoint and inverse of Illustrices will have real entiries). Solving system of linear equations in two or three variables (having unique solution) using system of linear equations in two or three variables (having unique solution) using inverse of a matrix. Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and notio functions. Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions. Concept of exponential and logarithmic functions. Derivative of impects functions. Concept of exponential and logarithmic functions. Derivative of inverse trigonometric functions. Concept of exponential and logarithmic functions. Derivative of functions approa	Data Analysis through Excel Writing Skills/ Activity/ Practical Mind map Writing Skills/ Activity/ Practical Mind map Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = {1, mo}: 1 is parallel to m} is an equivalence relation. Activity 3: To draw the graph of sine 1 x, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x) Activity 3: To verify Rolle's Theorem. Activity 4: To understand the concepts of decreasing and increasing functions Activity 5: To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. Activity 6: To verify that definite integral from a to b of given function as the limit of a sum and verify it by actual integration. Group assessment Activity 7: To verify that angle in a semicircle is a right angle, using vector method. Activity 8: To sketch the graphs of a rise to x and log x, a > 0, a is not equal to 1 and to examine that they are mirror images of each other. Activity 8: To sketch the graphs of a rise to x and log x, a > 0, a is not equal to 1 and to examine that they are mirror images of each other.

December	Ch- 9 Differential Equations	Definition, order and degree, general and particular solutions of a differential	Mind Map	
		equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type: $dy/dx + py = q$, where p and		
		q are functions of x or constants. $dx/dy + px = q$, where p and q are functions of y or constants		
January		Pre-Board Exams		
		Computer Science		
Month April	Chapter's Name Revision Tour Of Python	Topic Revision of Python topics covered in Class XI.	Writing Skills/Activity/ Practical To reinforce concepts from all key units of Python and associated topics through hands-on	
	Unit 1: Computational Thinking and Programming – 2	Functions: types of function (built-in functions, functions defined in module, user	activities and critical thinking.	
May		defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of		
		execution, scope of a variable (global scope, local scope)		
June	Unit -2 Functions And Exception handling	Exception Handling: Introduction, handling exceptions using try-except-finally blocks	Write a Python program to simulate a basic inventory management system using lists and dictionaries	
		 Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths 	Include operations like add, update, delete, search. Display the flow using a flowchart or pseudocode.	
		 Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text 	Practical Task: Create a menu-driven Python application that:	
		file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and	Allows users to add product name, quantity, and price. Calculates the total value of inventory.	
		readlines(), seek and tell methods, manipulation of data in a text file Binary file: basic operations on a binary file: open using file open mod	Uses loops and conditional statements.	
July	Binary File Handling	Binary file: basic operations on a binary file: open using file open modes (rb,	Use functions for input, processing, and display.	
July	Binary Fite Francising	th+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load()	Implement exception handling for invalid data types or missing values. Practical Task:Demonstrate try, except, else, and finally blocks.	
		method, read, write/create, search, append and update operations in a binary file	Create a user-defined function for division and handle divide-by-zero errors.	
August	CSV File and Data Structure	CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader()	Read a CSV file containing employee records. Display highest-paid employee using dictionaries.	
		Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.	Practical Task: Use csv.reader() and csv.writer().	
September	Computer Network & Concept	Unit 2: Computer Networks	Create a report of employees whose salary is above a threshold Write a short note on the difference between IP address and MAC address.	
		 Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) 	Explain client-server and peer-to-peer network models with examples.	
		 Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, 	Practical Task (Theoretical):	
		protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet	Identify and explain different types of network topologies using diagrams.	
		 switching) Transmission media: Wired communication media (Twisted pair cable, Coaxial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, 	Explain DNS, HTTP, FTP in 2-3 sentences each.	
		Infrared waves) Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIF1 card)		
		Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree)		
		Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP		
October	Unit :3 Data base managment	Unit 3: Database Management	Using MySQL or any SQL environment:	
		Database concepts: introduction to database concepts and its need Relational data model: relation, attribute, tuple, domain, degree, cardinality,	Execute queries for JOIN, GROUP BY, and aggregate functions.	
		keys (candidate key, primary key, alternate key, foreign key) • Structured Query Language: introduction, Data Definition Language and Data	Import CSV data into SQL and perform search queries.	
		 Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show 		
		databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert,		
		delete, select operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null,		
		like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables,		
		equi-join and natural join Interface of python with an SQL database: connecting SQL with Python,		
		performing insert, update, delete queries using cursor, display data by using connect(),		
		cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries		
November	Database managment II	delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and	Normalization and its types. Difference between primary key and foreign key with examples.	
		natural join	Difference between primary key and foreign key with examples. Design a relational database for a Library Management System: Create tables for books, members, and transactions.	
		 Interface of python with an SQL database: connecting SQL with Python, performing 	Use keys to define relationships.	
		insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database		
		connectivity applications, use of %s format specifier or format() to perform queries		
December January	Revision of all practical and theory portion	Practicals and baord practicals practice and builting program Pre-Board Exams		
		TIC DVII Q LARIES		
	Classical Name	Painting	Late Control	
Month April	Chapter's Name Chapter - 1 = The Rajasthan school of painting	Topic Introduction: rajasthan, melwa, marwad, mewad, bundi, kota, bikaner,kishangad,	Activity/Practicals Lining Work, Sketching work	
1		jodhpur		
	The Rajasthani School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth.		
		Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th		
		Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western-Indian, Pala,		
1		Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools The Distance State of the Stat		
		a. The Rajasthani School b. The Pahari School c. The Mughal School		
		d. The Deccan School based on their:		
		1. Origin and Development 2. Sub-Schools		
		Main features Characteristics		
1		Aesthetic parameters Competency based identification of style & technique		
		7. Understanding of emotions and moral values 8. Respect for life.		
May June	Pahari School of Miniature Painting	Title Painter	vecetion homework ; Tint and Shade Live ; Sketching work	
		Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor		
July			Folk art, Madhubani art	
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	The Mughal School of Miniature Painting	Falcon on a Bird-Rest Ustad Mansoor		
August		Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni	Still Life, Object Drawing	
September	The Deccan School:	Title Painter Sub-School Hazza Nizonauddin Auliya and Amir Khusmuddin Auliya and Unknown Hyderabad Chand Bibi Playing Polo (Chaugan) Unknown Gol Konda	Nature, Landscapep	
October	The Bengal School of Painting and the Modern trends in Indian Art	(About the beginning to mid of the 20th Century), contribution of Indian artists towards freedom movement, Revival of Indian Art, Indian National Flag Appreciation of at works from your syllabus based on their: 1. Origin and Development 2. Main features 3. Characteristics 4. Aesthetic parameters 5. Symbolic representation in artworks. 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life.	Body part,	
November	A National Flag of India :B The Bengal School of Painting	A National Flag of India: The Symbolic significance of its forms and the colours. Contribution of Indian artists in the struggle for National Freedom Movement. B The Bengal School of Painting		
December		C The Modern Trends in Indian Art Appreciation of the following contemporary (Modern) Indian Art i. i. Paintings: Rama Manquishing the Pride of the Ocean Raja Ravi Varma Title Painter Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni 14 Mother and child Jamini Roy Haldi Grinders Amrita Sher Gill Mother Teresa Mr. Hussam ii. ii. Graphic - prints: Children Somnath Hore Dev i Jyoii Bhatt Of Walls Anupam Sud Man, Woman and Tree K. Laxma Goud iii. iii. Sculptures: Triumph of Labour Triumph of Labour Santhal Family Samhal Family Cires Un - heard Cress Un - heard Ganesha Ganesha		
January	Pre- Boards Examination	,		



		GRADE 12 -SPLIT UP SYLLABUS-(2025-2026) English	
Aonth	Chapter	Theme/ Sub-theme	Activities
Ionth	The Last Lesson	Infringement on the rights of people to speak a language of their choice.	Textual questions/ Extra questions/ Assignments/Character
		Prussia conquering two districts of France	sketches
April	My Mother at sixty six	Fear of Kamala Das about the death of her mother.	Textual exercises/Literary devices/ Worksheet
	The Third Level	Charlie's escapism to an unknown parallel world.	Assignments, comprehensions, character sketches and value based questions
	Notice Writing	Drafting notices for various events and occasions The acceptance of poverty, exploitation as destiny and a dire need to	Notice drafting Assignments, charcter analysie and debate.
	Lost Spring	provide the poverty-stricken people, especially the children, a life of diginity andopportunities to dare, dream and do.	Assignments, chareter analyse and debate.
June	Keeping Quiet	Importance of having peace and unity in the world.	Assignments, comprehension questions and poetic devices.
June		A real life personal account of experiencing fear and the steps to overcome	Textual questions/ Extra questions/ Assignments/Character
	Deep Water Formal invitations and replies	it. Drafting formal and informal inviations and replies for various occasions	sketches" Drafting formal and informal inviations and replies for various occasions
	Formal invitations and replies	Dratting formar and informar inviations and repries for various occasions	Diatting format and informat inviations and replies for various occasions
	The Rat Trap	The story has a universal theme that the essential goodness in a human being can be awakened through understanding and love.	Textual exercises/Extracts/ Value based/ Character sketches
July	I	Tishani Doshi describes the journey to the coldest, driest and windiest	Assignment/ Comprehension questions – Textual questions/ Extra questions/ Value
	Journey to the end of the Earth The Tiger King	continent in the world: Antarctica. The story is a satire on the conceit of those in power.	based questions Textual exercises/Extracts/ Value based/ Character sketches
	Indigo	The leadership shown by Mahatma Gandhi to secure justice for oppressed	Textual exercises/Extracts/ Value based/ Character sketches
	mango	people through convincing argumentation and negotiation.	Texture exercises/Extracts value based Chimieter sections
August	Letter Writing - Editor and job Application	Importance of writing formal letters like job applications including resume	Drafting job application letters and letters to editor
	A Thing of Beauty	The natural bounties are all beautiful things that fill us with joy and remove the gloom in life.	Assignments, comprehension questions and poetic devices.
		201	Textual exercises/Extracts/ Value based/ Character sketches
eptember		Dr.Sadao encounters the dilemma-to live as a private individual whose moral ethical responsibility is to save the soldier or to let the prisoner die	January Meteory
cpeemoer	The Enemy		D
	Report writing - Magazines and newsapaper	Importance of writing magazine and newspaper reports. The outbox talks about the Comini studies set up in Channel. It was one of	Drafting reports Textual exercises/Extracts/ Value based/ Character sketches
	Poets and pancakes	The author talks about the Gemini studios set up in Chennai. It was one of the most influential film producing organisations of India in the early days of Indian film making.	Textual exercises/Extracts/ Value based/ Character sketches
October	On the face of it	The lesson is about the pain and isolation the physically handicapped go through.	Textual exercises/Extracts/ Value based/ Character sketches
	On the face of it	The poet presents the lives of poor, deprived people with pitiless clarity	Assignments, comprehension questions and poetic devices.
	A Roadside Stand	and with the deepest sympathy and humanity.	7-0-8
	Article Writing	Importance of writing articles.	Drafting articles
	The Interview - Part 1&2	Part I—Interview in the field of journalism. Part II -is an extract from an interview of Umberto Eco,	Textual exercises/Extracts/ Value based/ Character sketches
November	Aunt Jennifer's Tigers	The poem showcases a fair interplay between rebellion and repression, the individual and the social and between personal and political aspects of male chauvinism and suffocation in a married life.	Assignments, comprehension questions and poetic devices.
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ecember	Going Places Memories of Childhood - Part 1&2	Deals with the theme of adolescent fantasising and hero worship The story presents autobiographical episodes from the lives of two women and is an insight into humiliations suffered by the marginalised communities and their relationship with the mainstream culture.	Textual exercises/Extracts/ Value based/Character sketches Textual exercises/Extracts/ Value based/Character sketches
anuary	Revision		
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		Political Science GRADE 12 -SPLIT UP SYLLABUS-(2025-2026)	
		Political Science	
onth	Chapter's Name	Topic	Writing Skills/ Activity/ Practical
April	Part-1 Chapter 1- The End of Bipolarity	Topics to be focused: a) The Soviet System b) Gorbachev and the disintegration c) Causes and Consequences of disintegration of Soviet Union d) Shock Therapy and its Consequences e) New entities in world politics — Russia Balkan States Central Asian States f) India's relations with Russia and other post-communist	Group Discussion: Causes and consequences of disintegration of USSR Documentaries-Pa
Арти	Part-1 Chapter 2Contemporary Centres of Power	Countries Topics to be focused: a) European Union b) Association of Southeast Asian Nations	& present situations in USSR/Post Soviet Republics Analysis of relevant newspaper article Discussion: Importance on regional organisations Comparative study:
	Part-1 Chapter 2Contemporary Centres of Power	c) Rise of China as an economic power d) Japan and South Korea as emerging	Economic growth of China, Japan and South Korea. Use of timeline Inquiry based learnin
June	(conti)	powers Topics to be focused: a) Challenges for the new Nation. Three Challenges. b)	Map activity Interpretation of cartoons/ Pictures/ Newspaper clippings Documentaries Discussion: Causes and consequences of Partition Live Experiences-Meeti
	Part-2 Chapter:1 Challenges of Nation-Building	Partition: Displacement and Rehabilitation. ☐ Consequences of Partition.	People who lived through this period.
	Part-2 Chapter:1Challenges of Nation-Building	c) Integration of Princely States. The problem Government's approach Hyderabad Manipur d) Reorganisation of States	Cartoon Interpretation Map Activity
July	Part-2 Chapter:3Politics of Planned Development	Politics of Planned Development Topics to be focussed: a) Political contestation. □ Ideas of Development. □ Planning □ Planning Commission b) The Early Initiatives □ The First Five Year Plan. □ Rapid Industrialisation	Politics of Planned Development Topics to be focussed: a) Political contestation. Ideas of Development. Planning Planning Commission b) The Early Initiatives The First Fi Year Plan. Rapid Industrialisation
		Era of One-Party Dominance Topics to be focussed: a) Challenge of building democracy	
August	Part-2 Chapter:2 Era of One-Party Dominance	b) Congress dominance in the first three general elect ions. Nature of Congress dominance Congress a social and ideological coalition. Tolerance and management of Factions c) Emergence of opposition parties	Maps/Cartoons Question strategy Quiz
		a) International Context b) The Policy of NonAlignment. □ Nehru's role □ Distance from two camps. □ Afro Asian Unity c) Peace and conflict with China □ The Chinese Invasion1962 □ War and Peace with Pakistan □ Bangladesh	Presentation: NAM founders, objectives, principles and its relevance in contemporary wo politics Group discussion: India's relations with China and Pakistan (past, present and fut
	Part-2 Chapter:4 India's External Relations	War 1971 d) India's Nuclear Policy.	Debate: India's stand on shifting alliances Research and Report Writing

September	Part-1 Chapter:3Contemporary South Asia	Topics to be focused: a) Military and Democracy in Pakistan and Bangladesh b) Monarchy and Democracy in Nepal c) Ethnic Conflict and Democracy in Sri Lanka d) India-Pakistan Conflicts e) India and its Neighbours f) Peace and Cooperation	Map activity Comparative Analysis: Political systems of South Asian countries Use of Historical data Interpretation of cartoons/Pictures /Newspaper clippings Discussion: Current economic crisis in Sri Lanka and Pakistan
	Part-1 Chapter: 4 International Organizations	a) Meaning and importance of International Organisations b) Evolution of the UN c) Structure and function of International Organisations d) Principal Organs of UN c) Reform of the UN after Cold War f) Reform of Structures, Processes and Jurisdiction of the UN g) India and the UN Reforms h) Key Agencies: IMF, World Bank, WTO, ILO, IAEA. i) NGO: Amnesty International, Human Rights Watch. j) Implications and Future of International Organizations	Discussion and debate: Necessary reforms of the UN After completion of the chapter, Students will be able to: Topics to be focused: a) Meaning and importance of International Organisations b) Evolution of the UN c) Structure and function of International Organisations d) Principal Organs of UN c) Reform of the UN after Cold War f) Reform of Structures, Processes and Jurisdiction of the UN g) India and the UN Reforms Interpretation of cartoons (Newspaper clippings Quiz Model United Nations
October		Topics to be focused: a) Challenge of Political Succession From Nehru to Shastri From Shastri to Indira Gandhi b) Fourth General Election 1967	Use of timeline Comparative analysis: Political Succession Group discussion:
	Part-2 Chapter:5Challenges to and Restoration of the Congress System	d) The 1971 Election and Restoration of Congress The outcome and after Restoration?	Changing electoral performance of the congress Interpretation of cartoons Map Activity
	Part-2 Chapter:6The Crisis of Democratic Order	[a) Background to Emergency, □ Economic Context. □ Gujarat and Bihar Movements □ Conflict with Judiciary b) Declaration of Emergency □ Crisis and response □ Consequences Group discussion: Based on Newspaper articles and other media information with respect to emergency, c) Lessons of the Emergency.	Group discussion: Based on Newspaper articles and other media information with respect to emergency Quiz Cartoon Interpretation Map Activity
	Part-1 Chapter:5 Security in the Contemporary World	Topics to be focused: a) Meaning and Type of Security. b) Traditional concept of security c) Non-tradition notions of Security. d) New Sources of Threats e) Cooperative Security J India's Security strategy Topics to be focused: a) Region and the Nation Indian Approach	Discussions and debates: New sources of threat Comparative analysis: Security concerns of different countries Interpretation of cartoons/Pictures Collaborative concept mapping: India's initiatives and policies towards security.
November	Part-2 Chapter: 7 Regional Aspirations	Tension □ Jammu and Kashmir □ Roots of the Problem □ External and Internal disputes □ Politics since 1948 □ Insurgency and After □ 2022 and Beyond by Punjab □ Political Context □ Cycle of Violence □ Road to Peace c) The Northeast □ Demand for autonomy □ Secessionist Movements □ Movements against outsiders □ Assam and Nationa	Topics to be focused: a) Region and the Nation Indian Approach Areas of Tension Jammu and Kashmir Roots of the Problem External and Internal disputes Politics since 1948 Insurgency and After 2022 and Beyond b) Punjab Political Context Cycle of Violence Road to Peace c) The Northeast Demand for autonomy Secessionist Movements Movements against outsiders Assam and Nationa
	Part-2 Chapter:8 Recent Developments in Indian Politic	Topics to be focused a) Context of 1990s b) Era of Coalition □ Alliance Politics o) Political rise if the Backward Classes □ Mandal Implemented □ Political Fallouts d) Communalism, Secularism and Democracy. □ Ayodhya Dispute □ Demolition and after e) Emergence of New Consensus f) Lok Sabha Elections 2004 g) Growing Consensus	Comparative analysis: Different developments taking place in present scenario with that of twentieth century. Timeline Interpretation of Cartoons/Caricatures Quiz Reflective Enquiry
	Part-1 Chapter:6 Environment and Natural Resources	Topics to be focused: a) Environmental Concerns b) Global Commons c) Common but differentiated Responsibilities d) India's Stand on Environment Issues e) Environmental Movements f) Resource Geopolitics g) Rights of Indigenous peoples	Presentation: Environmental issues Recapitulation Debate and discussion: Indigenous communities of the world and their concerns Newspaper activity to inculcate concern, awareness and environmental morality
December	Part-1 Chapter : 7 Globalisation	a) Concept of globalisation b) Causes and Consequences of globalisation c) India and globalization d) Resistance to globalization e) India and resistance to globalisation	Group discussion: Positive and negative impact of globalization. Interpretation of Cartoons Question strategy
January		Pre- Boards & Board Examination	
		ENTREPRENEURSHIP	
Month	Chapter's Name	Торіс	Writing Skills/ Activity/ Practical
April	Chpter 1 Entrepreneurial Opportunity	Sensing EntrepreneurialOpportunities Environment Scanning and Problem Identification Spotting Trends Creativity and Innovation Selecting the Right Opportunity	practical project for probelem identification and turn it in an opportunity
May			
June	Chpter 2: Entrepreneurial Planning	Forms of business organization-Soleproprietorship, Partnership, Company Business Plan: concept, format "Components: Organisational plan; Operational plan; Production plan; Friancial plan; Marketing plan; Human Resource planning"	Project for business planning
June July	Unit 3: Enterprise Marketing	Forms of business organization- Soleproprietorship, Partnership, Company Business Plan: concept, format "Components: Organisational plan; Operational plan; Production plan; Financial plan; Marketing plan; Human Resource planning" Marketing and Sales Strategy Branding, Logo, Tagline Promotion Strategy	Product Marketing
June		Forms of business organization-Soleproprietorship, Partnership, Company Business Plan: concept, format "Components: Organisational plan; Operational plan; Production plan; Friancial plan: Marketing plan: Marketing plan: Human Resource planning" Marketing and Sales Strategy Branding, Logo, Tagline Promotion Strategy Negotiations - Importance and Methods Customer Relationship Management	
June July	Unit 3: Enterprise Marketing	Forms of business organization- Soleproprietorship, Partnership, Company Business Plan: concept, format "Components: Organisational plan; Operational plan; Production plan; Financial plan; Marketing plan; Human Resource planning" Marketing and Sales Strategy Branding, Logo, Tagline Promotion Strategy	Product Marketing
July August	Unit 3: Enterprise Marketing Unit 3: Enterprise Marketing (Continue) Chpater 4: Enterprise Growth Strategies	Forms of business organization- Soleproprietorship, Partnership, Company Business Plan: concept, format "Components: Organisational plan; Operational plan; Production plan; Friancial plan; Marketing plan; Marketing plan; Human Resource planning" Marketing and Sales Strategy Branding, Logo, Tagline Promotion Strategy Negotiations - Importance and Methods Customer Relationship Management Vendor Management Franchising: Concept, types, advantages, limitations. Mergers and Acquisition: Concept, reasons, types.	Product Marketing Project preparation
June July	Unit 3: Enterprise Marketing Unit 3: Enterprise Marketing (Continue)	Forms of business organization- Soleproprietorship, Partnership, Company Business Plan: concept, format "Components: Organisational plan; Operational plan; Production plan; Financial plan; Marketing plan; Human Resource planning" Marketing and Sales Strategy Branding, Logo, Tagline Promotion Strategy Marketing and Sales Strategy Branding, Logo, Tagline Promotion Strategy Negotiations - Importance and Methods Customer Relationship Management Vendor Management Franchising: Concept, types, advantages, limitations. Mergers and Acquisition: Concept, reasons, types. Reasons for failure of Mergers and Acquisitions Unit of Sale, Unit Cost for multiple products or services	Product Marketing
July August September	Unit 3: Enterprise Marketing Unit 3: Enterprise Marketing (Continue) Chpater 4: Enterprise Growth Strategies Chpater 4: Enterprise Growth Strategies Revision	Forms of business organization- Soleproprietorship, Partnership, Company Business Plan: concept, format "Components: Organisational plan; Operational plan; Operational plan; Production plan, Financial plan; Marketing plan; Human Resource planning" Marketing and Sales Strategy Branding, Logo, Tagline Promotion Strategy Negotiations - Importance and Methods Customer Relationship Management Vendor Management Transhising: Concept, types, advantages, limitations. Mergers and Acquisition. Concept, reasons, types.	Product Marketing Project preparation Chart preparation for Types of franchising

November	Unit 6: Resource Mobilization	"Capital Market- Primary and Secondary Stock Exchange- Concept, features,	Group discussion on financial resources
November	one of Resource Moonization	functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers	Group discussion on mancian resources
December	Unit 6: Resource Mobilization (Continue)	Angel Investor: Features	Study Of Share market
January		Revision	
January		PRE-BOARDS	
		Physical Education	
Month April	Chapter's Name Chapt.1. Planning in sports	Topics Methods of drawing fixtures, knockout tournaments, . league tournament, Round	Writing Skills/Activity/ Practical Practical planning of league system on Board and on ground practical of different tournament
	and the second s	Robin Tournaments, Intramural, extramural Changing Trends & Career in Physical Education • Meaning & definition of	pattern Drawing fixtures for the different types of tournaments
		Physical Education • Aims & Objectives of Physical Education • Career Options	
May	Chapt .1. Planning in sports (Continued)	seeding, special seeding, American method of finding winners.benefits of knockout ans league matches	Practical planning of league system on Board and on ground practical of different tournament pattern
June	Chapt .2 Sports and nutrition	Nutrition, Micro Nutrients, Macro Nutrients, Minerals, BMI, Eating disorders, Anorexia, Bulimia, Pitfalls in dieting, Food Supplimentts	Sports Nutrition Quiz and showing video.
July	Chapt. 3. Yoga and life style	Physical Fitness, Wellness & Lifestyle • Meaning & Importance of Physical Fitness, Wellness & Lifestyle • Components of physical fitness and Wellness • Components of Health related fitness	Different asana practices and Surya Namaskar Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh Matsyendrasana
August	Chapt.4. Sports for CWSN	Causes of Disorders, Autism , OCD, ADHD, SPD, Diabaliitit Etiquette and	Making Charts on different postures.
		causes and treatment for different disorders	Showing Common Postural Deformities video. Types of Disability, its causes & nature (cognitive disability, intellectual disability, physical
	Chapt. 5. Children and sports, Women and Sports	Casuses of Disorders, Osteoporosis, Bulimia,	disability) Making Charts on different postures.
C			Showing Common Postural Deformities video.
September	Chapt. 6. Test, Measurement and Evaluation	Motor Fitness test General Motor Fitness – Barrow three item general motor	Practical of Motor Fitness Test"Making Charts on different postures. Showing Common Postural Deformities video."
October	Chapt. 7. Sports and medicine	Sports medicine also known as Sport and Exercise Medicine (SEM) is a branch of medicine that specialises in the treatment and prevention of injuries related to	Classification (Soft Tissue) Injuries:(Abrasion, Contusion, Laceration, Incision, Sprain & Strain) Bone & Joint
November	Chapt. 8. Biomechanics and sports	Meaning And Importance of Biomechanics in sports	Endurance - Definition, types & methods to develop Endurance - Continuous Training,
December		Newton law of motion & its application in sports Types of movements(flexion, Extension, Adbuction,	Interval Training & Fartlek Training
	Chapt. 9. Psychology and Sports	Understanding Stress & coping Strategies Personality, its definition & types, - Trait & Types & big five theory Motivation, its types & techniques Exercise Adherence; Reasons to Exercise, Benefits of Exercise	Preparation of final draft of Project File
		Strategies for Enhancing Adherence to Exercise Meaning, concept & types of Aggressions in Sports	
	Chapt. 10. Training in sports	Strength-definition, types &method Endurance- definition, types &method Speed- definition, types &method Flexibility- definition, types &method Coordinative Abilities- definition and types Circuit Training – intro & importance	Preparation of final draft of Project File
January		Pre-Board Exams	
		APPLIED MATHEMATICS	
Month	Chapter's Name Ch-2 Matrices	Topic Inverse of A Matrix	Writing Skills/ Activity/ Practical
April		Solving system of simultaneous equations using matrix method Cramer's Rule Algebra of Matrices Matrices and types of Matrices Determinants Equality of Matrices Transpose of a Matrix Symmetric and Skew Symmetric Matrix	Using spresdsheet find the inverse of a matrices.
	Ch- 2 Determinants	Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples.	Draw Mid map
May	Ch- 2 Determinants (Continued)	solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.	Solve application base Case Study
June	Ch-1 Numbers, Quantification and Numerical Applications	Congruence Modulo Modulo Arithmetic Numerical Inequalities Alligation And Mixture Numerical Problems Boats and Streams (Upstream And Downstream) Races and Games Pipes and Cisterns	To understand the concepts of Congruence Modulo and Equivalence Class by findingcongruence modulo 6 and of first 50 natural numbers. Segregate the above results on the basis of their remainders for mod 6.
	chapter -1 Relations and Functions	Components of Time Series Methods of Measuring Trend Time Series Secular Trend Time Series Analysis for Univariate Data	Collect data from newspapers on traffic, sports activities and market trends and use excel to study future trends
July	Ch-3A- Differentiation and its Applications	Marginal Cost and Marginal Revenue using Derivatives Maxima and Minima Application of Derivatives Higher-Order Derivatives Increasing /Decreasing Functions	Find Area between curves.
August	Ch- 3B- Integration	Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple	Activity: To evaluate the definite integral from a to b of given function as the limit of a sum and verify it by actual integration.
September	Ch-8 Applications of the Integrals	Applications in finding the area under simple curves, especially lines, circles/	
	Ch-5 Inferential Statistics	parabolas/ellipses (in standard form only) Population and Sample T-Test (One-Sample T-Test and Two Independent Groups T-Test) Parameter and Statistics and Statistical Interferences	Project Work: Analysis of population migration data – positive and negative influence on urbanization
October	Ch-7 Financial Mathematics	Calculation of Emi Linear Method of Depreciation Perpetuity Sinking Funds Compound Annual Growth Rate Calculation of Returns Nominal Rate of Return	Stock Market data sheet on excel.Real life examples of sinking fund, Advantages of Sinking Fund, Sinking Fund vs. Savings account

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	Ch-8 Linear Programming Problem	Feasible and Infeasible Solutions	Assignment of a company by choosing a certain number of employees to complete the
		Optimal Feasible Solution	assignment within the required
		Introduction and Related Terminology	deadline, given that a single person works on only one job within the assignment.
		Feasible and Infeasible Regions	In this type of problem, the number of employees, the work- hours of each employee etc. are
		Mathematical Formulation of linear programming problem	considered as constraints and the total assignment to be done is treated as objective function.
		Graphical method of solution for problems in two variables	
November	Ch-4Probability Distributions	Variance Mathematical Expectation	Find conditional probability of an event.
		Normal Distribution	
		Probability Distribution	
		Poisson Distribution	
		Binomial Distribution	
December	Ch-3C-Differential Equations and Modeling	Application of Differential Equations	Data Analysis through Excel
		Differential Equations	
		Formulating and Solving Differential Equations	
January		Pre-Board Exams	
		Mathematics	
Month	Chapter's Name	Topic	Writing Skills/ Activity/ Practical
April	Ch-3 Matrices	Concept, notation, order, equality, types of matrices, zero and identity matrix,	Mind map
		transpose of a matrix, symmetric and skew symmetric matrices. Operations on	
		matrices: Addition and multiplication and multiplication with a scalar. Simple	
		properties of addition, multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero	
		matrices whose product is the zero matrix (restrict to square matrices of order 2).	
		Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all	
		matrices will have real entries).	
	Ch- 4 Determinants	Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and	Quiz
		applications of determinants in finding the area of a triangle. Adjoint and inverse	
		of a square matrix. Consistency, inconsistency and number of solutions of system	
		of linear equations by examples.	
May	Ch- 4 Determinants (Continued)	solving system of linear equations in two or three variables (having unique	-
		solution) using inverse of a matrix.	
June	Ch-1 Relations and Functions	Types of relations: reflexive, symmetric, transitive and equivalence relations.	Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by R = { 1,
	Ch 2 Immedia	One to one and onto functions.	m): I is parallel to m} is an equivalence relation.
	Ch-2 Inverse Trigonometric Functions	Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions	Activity 2:To draw the graph of sin-1 x, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x)
Y1	Ch- 5 Continuity and Differentiability	-	of mirror reflection (about the line y = x) Activity 3:To verify Rolle's Theorem.
July	Cn- 5 Continuity and Differentiability	Continuity and differentiability, chain rule, derivative of inverse trigonometric functions, like sin-1 x, cos-1 x and tan-1 x, derivative of implicit functions.	Activity 3:10 verify Rolle's Theorem.
		Concept of exponential and logarithmic functions. Derivatives of logarithmic and	
		exponential functions. Logarithmic differentiation, derivative of functions	
		expressed in parametric forms. Second order derivatives	
August	Ch- 6 Applications of Derivatives	Applications of derivatives: rate of change of quantities, increasing/decreasing	Activity 4:To understand the concepts of decreasing and increasing functions
		functions, maxima and minima (first derivative test motivated geometrically and	Activity 5: To verify that amongst all the rectangles of the same perimeter, the square has
		second derivative test given as a provable tool). Simple problems (that illustrate	the maximum area.
	Ch- 7 Integrals	Integration as inverse process of differentiation. Integration of a variety of	Activity 6:To evaluate the definite integral from a to b of given function as the limit of a sum
		functions by substitution, by partial fractions and by parts, Evaluation of simple	and verify it by actual integration.
		integrals of the following types and problems based on them.Fundamental	
		Theorem of Calculus (without proof). Basic properties of definite integrals and	
		evaluation of definite integrals	
September	Ch-8 Applications of the Integrals	Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only)	-
	Ch- 12 Linear Programming	Introduction, related terminology such as constraints, objective function,	Group assessment
	Cii- 12 Eineai i iogramming	optimization, graphical method of solution for problems in two variables,	Group assessment
		feasible and infeasible regions (bounded or unbounded), feasible and infeasible	
		solutions, optimal feasible solutions (up to three non-trivial constraints).	
October	Ch- 10 Vectors	Vectors and scalars, magnitude and direction of a vector. Direction cosines and	Activity 7:To verify that angle in a semicircle is a right angle, using vector method.
		direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and	
		collinear vectors), position vector of a point, negative of a vector, components of	
		a vector, addition of vectors, multiplication of a vector by a scalar, position	
		vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors,	
		vector (cross) product of vectors.	
	Ch- 11 Three - dimensional Geometry	Direction cosines and direction ratios of a line joining two points. Cartesian	Activity 8: To sketch the graphs of a rise to x and $\log x$, $a > 0$, a is not equal to 1 and to
		equation and vector equation of a line, skew lines, shortest distance between two	examine that they are mirror images of each other.
		lines. Angle between two lines	Activity 9: To measure the shortest distance between two skew lines and verify it
			analytically.
November	Ch- 13 Probability	Conditional probability, multiplication theorem on probability, independent	Activity10:To explain the computation of conditional probability of a given event A when
		events, total probability, Bayes' theorem, Random variable and its probability	event B has already occured, through an example of throwing a pair of dice.
_		distribution, mean of random variable.	
December	Ch- 9 Differential Equations	Definition, order and degree, general and particular solutions of a differential	Mind Map
		equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree.	
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		Solutions of linear differential equation of the type: $dy/dx + py = q$, where p and	
January		Solutions of linear differential equation of the type: $dy/dx + py = q$, where p and q are functions of x or constants. $dx/dy + px = q$, where p and q are functions of y	
January		Solutions of linear differential equation of the type: $dy/dx + py = q$, where p and q are functions of x or constants. $dx/dy + px = q$, where p and q are functions of y or constants	
January		Solutions of linear differential equation of the type: $dy/dx + py = q$, where p and q are functions of x or constants. $dx/dy + px = q$, where p and q are functions of y or constants	
January Month	Chapter's Name	Solutions of linear differential equation of the type: $dy/dx + py = q$, where p and q are functions of x or constants. $dx/dy + px = q$, where p and q are functions of y or constants Pre-Board Exams	Writing Skills/Activity/ Practical
Month	Chapter's Name Revision Tour Of Python	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of y or constants Pre-Board Exams Computer Science Topic	
	Revision Tour Of Python	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of y or constants Pre-Board Exams Computer Science Topic Revision of Python topics covered in Class XI.	Writing Skills/ Activity/ Practical To reinforce concepts from all key units of Python and associated topics through hands-on activities and critical thinking.
Month April	-	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of y or constants Pre-Board Exams Computer Science Topic Revision of Python topics covered in Class XI. • Functions: types of function (built-in functions, functions defined in module, user	To reinforce concepts from all key units of Python and associated topics through hands-on
Month April May	Revision Tour Of Python Unit 1: Computational Thinking and Programming –	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of y or constants Pre-Board Exams Computer Science Topic Revision of Python topics covered in Class XI. 9 Functions: types of function (built-in functions, functions defined in module, user defined functions). creating user defined functions arguments and parameters.	To reinforce concepts from all key units of Python and associated topics through hands-on activities and critical thinking.
Month April	Revision Tour Of Python	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of y or constants Pre-Board Exams Computer Science Topic Revision of Python topics covered in Class XI. • Functions: types of function (built-in functions, functions defined in module, user defined functions). creating user defined function arguments and parameters. Exception Handling: Introduction, handling exceptions using try-except-finally	To reinforce concepts from all key units of Python and associated topics through hands-on activities and critical thinking. Write a Python program to simulate a basic inventory management system using lists and
Month April May June	Revision Tour Of Python Unit 1: Computational Thinking and Programming – Unit -2 Functions And Exception handling	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of y or constants Pre-Board Exams Computer Science Topic Revision of Python topics covered in Class XI. Planctions: types of function (built-in functions, functions defined in module, user defined functions). creating user defined function, arguments and parameters. Exception Handling: Introduction, handling exceptions using try-except-finally blocks	To reinforce concepts from all key units of Python and associated topics through hands-on activities and critical thinking. Write a Python program to simulate a basic inventory management system using lists and dictionaries.
Month April May	Revision Tour Of Python Unit 1: Computational Thinking and Programming –	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of y or constants Pre-Board Exams Computer Science Topic Revision of Python topics covered in Class XI. 9 Functions: types of function (built-in functions, functions defined in module, user defined functions). creating user defined functions using try-except-finally blocks Binary file: basic operations on a binary file: open using file open modes (rb,	To reinforce concepts from all key units of Python and associated topics through hands-on activities and critical thinking. Write a Python program to simulate a basic inventory management system using lists and dictionaries. Use functions for input, processing, and display.
Month April May June	Revision Tour Of Python Unit 1: Computational Thinking and Programming – Unit -2 Functions And Exception handling	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of y or constants Pre-Board Exams Computer Science Topic Revision of Python topics covered in Class XI. Planctions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters. Exception Handling: Introduction, handling exceptions using try-except-finally blocks	To reinforce concepts from all key units of Python and associated topics through hands-on activities and critical thinking. Write a Python program to simulate a basic inventory management system using lists and dictionaries.
Month April May June	Revision Tour Of Python Unit 1: Computational Thinking and Programming – Unit -2 Functions And Exception handling	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of y or constants Pre-Board Exams Computer Science Topic Revision of Python topics covered in Class XI. • Functions: types of function (built-in functions, functions defined in module, user defined functions). creating user defined function aroungents and parameters. Exception Handling: Introduction, handling exceptions using try-except-finally blocks Binary file: basic operations on a binary file: open using file open modes (rb, rb+,	To reinforce concepts from all key units of Python and associated topics through hands-on activities and critical thinking. Write a Python program to simulate a basic inventory management system using lists and dictionaries. Use functions for input, processing, and display. Implement exception handling for invalid data types or missing values.
Month April May June	Revision Tour Of Python Unit 1: Computational Thinking and Programming – Unit -2 Functions And Exception handling	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of y or constants Pre-Board Exams Computer Science Topic Revision of Python topics covered in Class XI. 9 Functions: types of function (built-in functions, functions defined in module, user defined functions). creating user defined function suing try-except-finally blocks Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load()	To reinforce concepts from all key units of Python and associated topics through hands-on activities and critical thinking. Write a Python program to simulate a basic inventory management system using lists and dictionaries. Use functions for input, processing, and display. Implement exception handling for invalid data types or missing values. Practical Task-Demonstrate try, except, else, and finally blocks. Create a user-defined function for division and handle divide-by-zero errors. Read a CSV file containing employee records.
Month April May June July	Revision Tour Of Python Unit 1: Computational Thinking and Programming – Unit -2 Functions And Exception handling Binary File Handling	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of x or constants. Pre-Board Exams Computer Science Topic Revision of Python topics covered in Class XI. 9 Functions: types of function (built-in functions, functions defined in module, user defined functions), reating user defined function arounnents and narameters. Exception Handling: Introduction, handling exceptions using try-except-finally blocks Binary file: basic operations on a binary file: open using file open modes (rb, fb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file CSV file: import csv module, open / close csv file, write into a csv file using writer(), writerow(), writerow() and read from a csv file using reader()	To reinforce concepts from all key units of Python and associated topics through hands-on activities and critical thinking. Write a Python program to simulate a basic inventory management system using lists and dictionaries. Use functions for input, processing, and display. Implement exception handling for invalid data types or missing values. Practical Task-Demonstrate try, except, else, and finally blocks. Create a user-defined function for division and handle divide-by-zero errors. Read a CSV file containing employee records.
Month April May June July	Revision Tour Of Python Unit 1: Computational Thinking and Programming – Unit -2 Functions And Exception handling Binary File Handling	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of y or constants Pre-Board Exams Computer Science Topic Revision of Python topics covered in Class XI. Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function arguments and parameters. Exception Handling: Introduction, handling exceptions using try-except-finally blocks Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader() • Data Structure: Stack, operations on stack (push & pop), implementation of	To reinforce concepts from all key units of Python and associated topics through hands-on activities and critical thinking. Write a Python program to simulate a basic inventory management system using lists and dictionaries. Use functions for input, processing, and display. Implement exception handling for invalid data types or missing values. Practical Task. Demonstrate try, except, else, and finally blocks. Create a user-defined function for division and handle divide-by-zero errors. Read a CSV file containing employee records. Display highest-paid employee using dictionaries. Practical Task:
Month April May June July	Revision Tour Of Python Unit 1: Computational Thinking and Programming – Unit -2 Functions And Exception handling Binary File Handling	Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of x or constants. Pre-Board Exams Computer Science Topic Revision of Python topics covered in Class XI. 9 Functions: types of function (built-in functions, functions defined in module, user defined functions), reating user defined function arounnents and narameters. Exception Handling: Introduction, handling exceptions using try-except-finally blocks Binary file: basic operations on a binary file: open using file open modes (rb, fb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file CSV file: import csv module, open / close csv file, write into a csv file using writer(), writerow(), writerow() and read from a csv file using reader()	To reinforce concepts from all key units of Python and associated topics through hands-on activities and critical thinking. Write a Python program to simulate a basic inventory management system using lists and dictionaries. Use functions for input, processing, and display. Implement exception handling for invalid data types or missing values. Practical Task-Demonstrate try, except, else, and finally blocks. Create a user-defined function for division and handle divide-by-zero errors. Read a CSV file containing employee records.

September	Computer Network & Concept	Unit 2: Commuter Networks	Write a short note on the difference between IP address and MAC address.
September	Computer Network & Concept	Unit 2: Computer Networks • Evolution of networking: introduction to computer networks, evolution of	write a short note on the difference between it address and MAC address.
		networking (ARPANET, NSFNET, INTERNET)	Explain client-server and peer-to-peer network models with examples.
		Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media,	Practical Task (Theoretical):
		protocols), measuring capacity of communication media (bandwidth, data	Identify and explain different types of network topologies using diagrams.
		transfer rate), IP address, switching techniques (Circuit switching, Packet switching)	Explain DNS, HTTP, FTP in 2-3 sentences each.
		Transmission media: Wired communication media (Twisted pair cable, Co-	Explain DNS, 11111, 111 in 2-3 schenees each.
		axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves,	
		Infrared waves) Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)	
		 Network topologies and Network types: types of networks (PAN, LAN, MAN, 	
		WAN), networking topologies (Bus, Star, Tree) • Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS,	
		TELNET, VoIP	
October	Unit :3 Data base managment	Unit 3: Database Management	Using MySQL or any SQL environment:
		Database concepts: introduction to database concepts and its need Relational data model: relation, attribute, tuple, domain, degree, cardinality,	Execute queries for JOIN, GROUP BY, and aggregate functions.
		keys	Land CCV At its COL and a Community
		(candidate key, primary key, alternate key, foreign key) • Structured Query Language: introduction, Data Definition Language and Data	Import CSV data into SQL and perform search queries.
		Manipulation Language, data type (char(n), varchar(n), int, float, date),	
		constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table	
		(add and remove an attribute, add and remove primary key), drop table, insert,	
		delete, select operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null,	
		like, update command, delete command, aggregate functions (max, min, avg,	
		sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join	
		 Interface of python with an SQL database: connecting SQL with Python, 	
		performing insert, update, delete queries using cursor, display data by using connect(),	
		cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database	
		connectivity applications, use of %s format specifier or format() to perform queries	
November	Database managment II	delete command, aggregate functions (max, min, avg, sum, count),	Normalization and its types.
		group by, having clause, joins: cartesian product on two tables, equi-join and natural	Difference between primary key and foreign key with examples. Design a relational database for a Library Management System:
		join	Create tables for books, members, and transactions.
		Interface of python with an SQL database: connecting SQL with Python, performing	Use keys to define relationships.
		insert, update, delete queries using cursor, display data by using connect(),	
		cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform	
		queries queries queries queries queries queries queries	
December	Revision of all practical and theory portion	Practicals and baord practicals practice and builting program	
January		Pre-Board Exams	
		Painting	
Month	Chapter's Name	Торіс	Activity/Practicals
April	Chapter - 1 = The Rajasthan school of painting	Introduction: rajasthan, melwa, marwad, mewad, bundi, kota, bikaner,kishangad, jodhpur	Lining Work, Sketching work
	The Rajasthani School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth.	
	The Rajasthani School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth. Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad	
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	The Rajasthani School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth. Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala,	
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	The Rajasthani School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth. Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School	
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May		General introduction about Bhagavat puran, Shiv puran and mythological myth. Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Deccan School based on their: 1. Origin and Development 2. Sub-Schools 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life.	vecetion homework; Tint and Shade
May June	The Rajasthani School of Miniature Painting Pahari School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Deccan School based on their: 1. Origin and Development 2. Sub-Schools 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life. Title Painter Krishna Lifting Mount Govardhan Miskin	vecetion homework ; Tint and Shade Live ; Sketching work
		General introduction about Bhagavat puran, Shiv puran and mythological myth. Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Deccan School da The Deccan School sased on their: 1. Origin and Development 2. Sub-School 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life.	
		General introduction about Bhagavat puran, Shiv puran and mythological myth Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Deccan School based on their: 1. Origin and Development 2. Sub-Schools 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life. Title Painter Krishna Lifting Mount Govardhan Miskin	Live; Sketching work
June	Pahari School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Deccan School based on their 1. Origin and Development 2. Sub-Schools 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life. Title Painter Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor	
June		General introduction about Bhagavat puran, Shiv puran and mythological myth. Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Deccan School based on their: 1. Origin and Development 2. Sub-School 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life. Title Painter Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor Kabir and Raidas Ustad Faquirullah Khan	Live ; Sketching work Folk art, Madhubani art
June July August	Pahari School of Miniature Painting The Mughal School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth. Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Deccan School based on their: 1. Origin and Development 2. Sub-Schools 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life. Title Painter Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni	Live ; Sketching work Folk art, Madhubani art Still Life, Object Drawing
June July	Pahari School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Deccan School based on their: 1. Origin and Development 2. Sub-Schools 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life. Title Painter Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni Title Painter Sub-School Title Painter Sub-School	Live ; Sketching work Folk art, Madhubani art
June July August	Pahari School of Miniature Painting The Mughal School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Deccan School based on their: 1. Origin and Development 2. Sub-Schools 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life. Title Painter Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni Title Painter Sub-School Hazrat Nizamuddin Auliya and Amir Khusro	Live ; Sketching work Folk art, Madhubani art Still Life, Object Drawing
June July August	Pahari School of Miniature Painting The Mughal School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth. Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Deccan School based on their: 1. Origin and Development 2. Sub-Schools 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life. Title Painter Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni Title Painter Sub-School Hazrat Nizamuddin Auliya and Amir Khusro Unknown Hyderabad	Live ; Sketching work Folk art, Madhubani art Still Life, Object Drawing
June July August	Pahari School of Miniature Painting The Mughal School of Miniature Painting The Deccan School: The Bengal School of Painting and the Modern trends	General introduction about Bhagavat puran, Shiv puran and mythological myth Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Decean, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Decean School based on their: 1. Origin and Development 2. Sub-Schools 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life. Title Painter Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni Title Painter Sub-School Hazrat Nizamuddin Auliya and Amir Khusro Unknown Hyderabad Chand Riki Plavine Delon (Chausan) Linknown, Gol Konda. (Chout the beginning to mid of the 20th Century), contribution of Indian artists	Live ; Sketching work Folk art, Madhubani art Still Life, Object Drawing
June July August September	Pahari School of Miniature Painting The Mughal School of Miniature Painting The Decean School:	General introduction about Bhagavat puran, Shiv puran and mythological myth Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School b. The Pahari School d. The Deccan School b. The Pahari School d. The Deccan School b. The School sased on their: 1. Origin and Development 2. Sub-Schools 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life. Title Painter Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni Title Painter Sub-School Hazzat Nizamuddin Auliya and Amir Khusro Unknown Hyderabad Chand Rhij Planine Bolo (Chausan) Linknown Gol Konda (About the beginning to mid of the 20th Century), contribution of Indian artists towards freedom movement, Revival of Indian Art, Indian National Flag	Live ; Sketching work Folk art, Madhubani art Still Life, Object Drawing Nature, Landscapep
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June July August September October	Pahari School of Miniature Painting The Mughal School of Miniature Painting The Deccan School: The Bengal School of Painting and the Modern trends in Indian Art A National Flag of India: B The Bengal School of Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Deccan, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Deccan School based on their: 1. Origin and Development 2. Sub-Schools 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life. Title Painter Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni Title Painter Sub-School Hazrat Nizamuddin Auliya and Amir Khusro Unknown Hyderabad Chand, Bibi Blavine Bolo (Chausan) Linknown Gol Konda (About the beginning to mid of the 20th Century), contribution of Indian artists towards freedom movement, Revival of Indian Art, Indian National Flag Appreciation of Indian artists in the struggle for National Freedom Movement. Brib Bengal School of Painting	Live ; Sketching work Folk art, Madhubani art Still Life, Object Drawing Nature, Landscapep
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June July August September October November	Pahari School of Miniature Painting The Mughal School of Miniature Painting The Deccan School: The Bengal School of Painting and the Modern trends in Indian Art A National Flag of India: B The Bengal School of Painting The Modern Trends in Indian Art	General introduction about Bhagavat puran, Shiv puran and mythological myth Paintings: Maru Ragini, Chaugan Player, Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala, Rajasthani and Pahari, Mughal and Decean, Central India. Appreciation of art works from your syllabus from the following schools a. The Rajasthani School b. The Pahari School c. The Mughal School d. The Decean School based on their: 1. Origin and Development 2. Sub-Schools 3. Main features 4. Characteristics 5. Aesthetic parameters 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life. Title Painter Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni Title Painter Sub-School Hazrat Nizamuddin Auliya and Amir Khusro Unknown Hyderabad (Chand Ribi Palusino Palos (Chaucan) Linknown Gol Konda (About the beginning to mid of the 20th Century), contribution of Indian artists towards freedom movement, Revival of Indian Art, Indian National Flag Appreciation of art works from your syllabus based on their: 1. Origin and Development 2. Main features A National Flag of India: The Symbolic significance of its forms and the colours. Contribution of Indian artists in the struggle for National Freedom Movement. B The Bengal School of Painting C The Modern Trends in Indian Art	Live ; Sketching work Folk art, Madhubani art Still Life, Object Drawing Nature, Landscapep

Sociology				
Month	Chapter's name	Торіс	Writing Skills/ Activity/ Practical	
			Introduction, Statement of Purpose/Need and objectives of the study, Hypothesis/Research Question, Review of Literature, Presentation of Evidence, Methodology, Questionnaire, Data Collection.	

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June			
July	Social Institutions: Continuity and Change	Social Institutions: Continuity and Change Caste and the Caste System Tribal Communities Family and Kinship	
August	5. Patterns of Social Inequality and Exclusion	Patterns of Social Inequality and Exclusion Social Inequality and Social Exclusion Systems justifying and perpetuating Inequality Caste, Tibe, the Other Backward Classes Advisasi Struggles The Struggles Of Women's Equality and Rights The struggles of the Differently Abled The Challenges of Cultural Diversity Cultural communities and the nation state	Significance and relevance of the topic; challenges encountered while conducting the research.
September	6. The Challenges of Cultural Diversity	Regionalism in the Indian context The Nation state and religion related issues and identities Communalism, secularism and the nation state State and Civil Society	
October	8. Structural Change	Cultural Change Social Reform Movements Different Kinds of Social Change: Sanskritisation Westernization, Modernization, Secularization	Content analysis and its relevance in the current scenario. Conclusion, Limitations, Bibliography, Annexures and Overall Presentation.
November	9. Cultural Change	Change and Development in Rural Society Agrarian Structure: Caste & class in Rural India Land Reforms, Green Revolution and Emerging Agrarian society Green revolution and its social consequences Transformation in Rural Society Circulation of labour Globalization, Liberalization and Rural Society	vExternal/ Internal Viva based on the project
December			
January	11.Change and Development in Rural Society	Change and Development in Industrial Society From Planned Industrialization to Liberalization How people find Jobs Work Processes: How work is carried out, working conditions, home based work, Strikes and Unions	case study
		Pre-Board Exams	
		Economics	
Month	Chapter's Name Indian Economic Development : Chapter 1 Indian Economy on the Eve of Independence	Topic become familiar with the state of the Indian economy in 1947, the year of India's Independence. understand the factors that led to the underdevelopment and	Writing Skills/ Activity/ Practical Prepare a list of goods and services that were available to people in pre- independence India in rural and urban areas. Compare it with the consumption pattern of such goods and services by the people today. Highlight the perceptible
	Indian Economic Development : Chapter 2 Indian Economy 1950-1990	stagnation of the Indian economy. The goals of Five Year Plans Agriculture Industry and trade Trade policy: Important subsitution	difference in the people's standard of living. Prepare pie chart on the occupational structure of the Indian economy.
April	Introductory Macroeconomics : Chapter 1 Introduction	Introductory Macroeconomics : Chapter 1 Introduction	Differenciate between: Microeconomics & Macroeconomics
	Introductory Macroeconomics : Chapter 2 National Income AccountingContinue	Circular flow of Income National income and related aggregates : Some basic concepts Measurement of national inco,me : Methods of calculating national income	Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method
May	Introductory Macroeconomics : Chapter 2 National Income AccountingContinue	Circular flow of Income National income and related aggregates: Some basic concepts Measurement of national inco.me: Methods of calculating national income	Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method
June	Introductory Macroeconomics : Chapter 2 National Income AccountingContinue	Circular flow of Income National income and related aggregates : Some basic concepts Measurement of national inco,me : Methods of calculating national income	Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method
July	Indian Economic Development : Chapter 3 Librelisation, Globalisation and Privatisation	Background Librelisation Globalisation Privatisation Indian economy during reforms	Was it necessary for India to introduce economic reforms at the behest of World Bank and International Monetary Fund? Was there no alternative for the government to solve the balance of payments crisis? Discuss in the classroom.
	Introductory Macroeconomics : Chapter 3 Money and Banking	Functions of money Demand and supply of money Money creation by banking system Policy tools to control money supply	Numerical problems on : Money supply Money creation
August	Indian Economic Development : Chapter 4 Human Capital Formation In India	What is human capital? Sources of human capital Human capital and human development State of human capital formation in India Education sector in India Future prospects	Identify how Human Development Index is calculated. What is the position of India in the World Human Development Index?
	Introductory Macroeconomics : Chapter 4 Determination of Income and Employment	Aggregate demand & aggregate supply Income determination and multiplyer Excess demand and deficient demand	Curves related to various functions of economy Numerical problems on : APC, APS, MPC, MPS Investment Multiplyer 'K'
O	Indian Economic Development : Chapter 5 Rural Development	What is rural development? Credit marketing in rural areas Agriculture market system Diversification in product activities Sustanable development and organic farming	Enlist some problems faced by farmers during the initial years of organic farming.
September	Introductory Macroeconomics : Chapter 5 Governmen Government Budget and the EconomyContinue	Budget : Meaning, Features Objectives Budget : Structure and Components Meaning of Budget receipts and expenditure Budget deficit and its types	Numericals problems on : Revenue deficit Fiscal deficit Primary deficit
October	Indian Economic Development : Chapter 6 Employment : Growth, Informalisation and Other Issues	Workers and employment Participation of people in employment Self-employed and hired workers Employment in firms, factories and offices Growth and changing structure of employment Informalisation of Indian workforce Government and employment generation	In recent years, you may have noticed that many voluntary organisations also take initiatives to generate employment in hilly and dry land regions. If you find such initiatives in your locality, visit and prepare a report

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	Introductory Macroeconomics : Chapter 5 Governmen Government Budget and the EconomyContinue	Budget : Meaning, Features Objectives Budget : Structure and Components Meaning of Budget receipts and expenditure Budget deficit and its types	Numericals problems on : Revenue deficit Fiscal deficit Primary deficit
	Indian Economic Development : Chapter 7 Environment and sustainable development	Environment : defination and functions State of India's environment Sustainable development Strategies for sustainable development	Prepare a chart on the causes and remedies of soil erosion in India.
	Introductory Macroeconomics : Chapter 5 Governmen Government Budget and the EconomyContinue	Budget : Meaning, Features Objectives Budget : Structure and Components Meaning of Budget receipts and expenditure Budget deficit and its types	Numericals problems on : Revenue deficit Fiscal deficit Primary deficit
	Indian Economic Development : Chapter 8 Comparative Development Experiences of India and Neighbous	Developmental path - A snapshot Demographic indicators GDP and sectors Indicators of human development Development strategies - An appraisal	A class debate on the issue of free trade between India and China and India and Pakistan.
	Introductory Macroeconomics : Chapter 6 Open Economy Macroeconomics	The balance of payments Foreign exchange rate	Numerical problems on : Current account balance Capital account balance
January		AISSCE - Practical / Viva 2025-26	

		History	
Month	Chapter's Name	Topic	Writing Skills/ Activity/ Practical
	Bricks, Beads and Bones The Harappa Civilisation	☐ Familiarize the learner with the early urban centers as economic and social institutions. ☐ Introduce the ways in which new data can lead to a revision of existing notions of history. ☐ Find the difference between an archeologist and historian who Investigate and interpret historical and contemporary sources	☐ To investigate, explore and interpret the early urban centres and social institutions. ☐ State and deduce the multilateral aspects of Harappan civilization to understand the first civilization of the world. ☐ Investigate and interpret historical and contemporary sources and viewpoints of ASI and historians on Harappa.
April	Kings, Farmers and Towns Early States and Econol	☐ To Familiarize the learner with major trends in the political and economic history of the subcontinent.	☐ To critically evaluate and interpret major trends in the political and economic history of the subcontinent. ☐ Analyse inscriptional evidences and the ways in which these have shaped the understanding of political and economic processes.
June	Kingship, Caste and class Early Societies (c. 600 B	☐ To Familiarize the learners with issues in social history. ☐ Introduce the strategies of textual analysis and their use in reconstructing social history. ☐ To appraise the condition of women during Mahabharata age.	To examine, analyse the issues of social history. Analyse social norms in order to understand the perspectives of society given in the scriptures of ancient India. Examine the varied dimensions explored by historians in order to understand dynamic approach of Mahabharata
July	Thinkers, Beliefs and Buildings Cultural Developme	□ Discuss the major religious developments in early India. □ Introduce strategies of visual analysis and their use in reconstructing the theories of religion.	☐ To infer and compare the major religious developments in early India. ☐ Elucidate the rich religious sculpture and infer the stories hidden in it.
August	Through the eyes of Travellers Perceptions of Socie	☐ Familiarize the learner with the salient features of social histories described by the travellers. ☐ Discuss how traveller's accounts can be used as sources of social history. ☐ Familiarise with the accounts of foreign travellers in order to understand the social political and economic life in the medieval period.	☐ To understand salient features of social histories described by the travellers and apply the learning in real life. ☐ Elucidating the accounts of foreign travellers in order to understand the social political and economic life during the tenure of different rulers in the medieval period.
	Bhakti-Sufi Traditions Changes in Religious Beliefs and Devotional Texts	□ Familiarize the learner with the religious developments. □ Discuss ways of analysing devotional literature	Understand the religious developments. Summarize the philosophies of different Bhakti and Sufisaints to understand the religious developments during medieval period.
September	An Imperial Capital – Vijayanagar	□ Acquaint the learner with the buildings monuments that were built during the time. □ To examine the 'excerpts or the sources more closely and discuss the ways in which architecture can be analysed to reconstruct history. □ Analyse city planning, water management system, administration of the rulers with the help of literary accounts of foreign traveller's and architectural evidence.	□ Students will be able to Classify the distinctive architectural contributions of the Vijayanagar empire to comprehend the richness of mingled cultures of deccan India. □ Analyse accounts of foreign traveller's on Vijayanagar in order to interpret political, social and cultural life of the city.
October	Peasants, zamindars and the States Agrarian Socie	☐ Engage the students to discuss the developments in agrarian relations. ☐ Discuss how to supplement official documents with other sources. ☐ Elaborate the agrarian changes occurred during sixteenth and seventeenth centuries. ☐ Explain the changes and differences in the agrarian sectors	Comprehend the facets of agrarian developments in order to understand the relationship between the state and the agriculture during Mughal period. Compare and contrast the agrarian changes occurred during sixteenth and seventeenth centuries
October	Colonialism and The Countryside Exploring Official	☐ Discuss how colonialism affected zamindars, peasants and artisans. ☐ Explain the revenue systems introduced by the British to Comprehend the problems and limits of using official sources for understanding the lives of the people. ☐ Discuss about the types of records and reports.	☐ Evaluate the revenue systems introduced by the British to understand the economic aspects of colonization in India. ☐ Analyse the colonial official records& reports to understand the divergent interest of British and Indians.
	Rebels and Raj 1857 Revolt and its Representation	□ Discuss how the events of 1857 are being interpreted. □ Discuss how visual material can be used by historians to narrate events. □ Understand the planning and execution of the plan. □ Highlight the united contribution made by the	☐ To examine the events of 1857. ☐ Correlate the Planning and coordination of the rebels of 1857 to infer its domains and nature. ☐ Examine the momentum of the revolt to understand its spread.
November	Mahatma Gandhi and the National Movement Civil	Indian soldiers. Discuss how Gandhi was perceived by different groups. Examine how historians need to read and interpret newspapers diaries and letters as a historical source. Throw light on nationalism and patriotism.	☐ Understand the nationalist movement in chronological order. ☐ Explore the ways of Interpreting historical source such as newspapers, biographies and autobiographies diaries and letters
	Framing of the Constitution The Beginning of a New	☐ Discuss how the founding ideals of the new nation state were debated and formulated. ☐ Understand how such debates and discussions can be read by historians. ☐ Discuss the other countries constitution and compare.	☐ Highlight the role of Constituent Assembly to understand functionaries in framing the constitution of India. ☐ Analyse how debates and discussions around important issues in the Constituent Assembly shaped our Constitution
December	Including Map work of the related Themes	Mature Harappan sites: Harappa, Banawali, Kalibangan, Balakot, Rakhigarhi, Dholavira, Nageshwar, Lothal, Mohenjodaro, Chanhudaro, KotDiji. Territories/cities under British Control in1857: Puniab, Sindh, Bombay, Madras Berar, Bengal,	
January		Bihar, Orissa, Surat, Calcutta, Patna, Allahabad Pre- Boards & Board Examination	



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		GRADE 12 -SPLIT UP	SYLLABUS-(2025-2026)		
Month	No. Of Teaching Days	Chapter	Theme/ Sub-theme	Activities	
	.,.	The Last Lesson	Infringement on the rights of people to speak a language of their choice. Prussia conquering two districts of France	Textual questions/ Extra questions/ Assignments/Character sketches	
		My Mother at sixty six	Fear of Kamala Das about the death of her mother.	Textual exercises/Literary devices/ Worksheet	
April	21	The Third Level	Charlie's escapism to an unknown parallel world.	Assignments, comprehensions, character sketches and value based questions	
		Notice Writing	Drafting notices for various events and occasions	Notice drafting	
		Lost Spring	The acceptance of poverty, exploitation as destiny and a dire need to provide the poverty-stricken people, especially the children, a life of diginity andopportunities to dare, dream and do.	Assignments, chareter analysie and debate.	
		Keeping Quiet	Importance of having peace and unity in the world.	Assignments, comprehension questions and poetic devices.	
June	22	Deep Water	A real life personal account of experiencing fear and the steps to overcome it.	Textual questions/ Extra questions/ Assignments/Character sketches"	
		Formal invitations and replies	Drafting formal and informal inviations and replies for various occasions	Drafting formal and informal inviations and replies for various occasions	
		The Rat Trap	The story has a universal theme that the essential goodness in a human being can be awakened through understanding and love.	Textual exercises/Extracts/ Value based/ Character sketches	
July	18	Journey to the end of the Earth	Tishani Doshi describes the journey to the coldest, driest and windiest continent in the world: Antarctica.	Assignment/ Comprehension questions – Textual questions/ Extra questions/ Value based questions	
		The Tiger King	The story is a satire on the conceit of those in power.	Textual exercises/Extracts/ Value based/ Character sketches	
		Indigo	The leadership shown by Mahatma Gandhi to secure justice for oppressed people through convincing argumentation and negotiation.	Textual exercises/Extracts/ Value based/ Character sketches	
August	23	Letter Writing - Editor and job Application	Importance of writing formal letters like job applications including resume	Drafting job application letters and letters to editor	
rugun	20	A Thing of Beauty	The natural bounties are all beautiful things that fill us with joy and remove the gloom in life.	Assignments, comprehension questions and poetic devices.	
September	11	The Enemy	Dr.Sadao encounters the dilemma-to live as a private individual whose moral ethical responsibility is to save the soldier or to let the prisoner die	Textual exercises/Extracts/ Value based/ Character sketches	
		Report writing - Magazines and newsapaper	Importance of writing magazine and newspaper reports.	Drafting reports	
		Poets and pancakes	The author talks about the Gemini studios set up in Chennai. It was one of the most influential film producing organisations of India in the early days of Indian film making.	Textual exercises/Extracts/ Value based/ Character sketches	
October	22	On the face of it	The lesson is about the pain and isolation the physically handicapped go through.	Textual exercises/Extracts/ Value based/ Character sketches	
		A Roadside Stand	The poet presents the lives of poor, deprived people with pitiless clarity and with the deepest sympathy and humanity.	Assignments, comprehension questions and poetic devices.	
		Article Writing	Importance of writing articles.	Drafting articles	
		The Interview - Part 1&2	Part I - Interview in the field of journalism. Part II -is an extract from an interview of Umberto Eco,	Textual exercises/Extracts/ Value based/ Character sketches	
November	14	Aunt Jennifer's Tigers	The poem showcases a fair interplay between rebellion and repression, the individual and the social and between personal and political aspects of male chauvinism and suffocation in a married life.	Assignments, comprehension questions and poetic devices.	
		Going Places	Deals with the theme of adolescent fantasising and hero worship The story presents autobiographical episodes from the lives of two women	Textual exercises/Extracts/ Value based/Character sketches Textual exercises/Extracts/ Value based/Character sketches	
December	23	Memories of Childhood - Part 1&2	and is an insight into humiliations suffered by the marginalised communities and their relationship with the mainstream culture.		
January	16	Revision			
February	21	Revision			
·			Prepared by - Akash Anilkumar		

			GRADE 12 -SPLIT UP SYLLABU	JS-(2025-2026)
M	No.of working	B: :		
Month	days	Physics	Content/Sub Topic Electric Charges; 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 flines, electric dipole, electric field use 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	Expt.(1)To determine resistivity of two / three
April		1.Electric Charges and Fields 2. Electrostatic Potential and Capacitance	sheet and uniformly charged thin spherical shell (field inside and outside). Electric potential, potential difference, electric potential due to a point charge, a dipote and system of charges; equipotential surfaces, electrical potential energy of a system of two- point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance.	Activity(1)To measure resistance, voltage (AC/IDC), current (AC) and check continuity of a given circuit ring a Multimetre.
Мау		Electrostatic Potential and Capacitance Electrostatic Potential and Capacitance	combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only).	Activity(2)To draw the diagram of a given open circuit comprising at least a battery, resistor/incestak, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.
		3.Current Electricity	Electric current, flow of electric charges in a metallic conductor, diff velocity, mobility and their relation with electric current, Ohm's law, V-l characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, 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 rules, Wheatstone bridge.	Expt.(2) To verify the laws of combination (series) of resistances using a metre bridge. Expt(9). To verify the laws of combination (parallel) of resistances using a metre bridge
June	18	Moving Charges 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.	Activity(3)To measure resistance, voltage (AC/DC), current(AC) and check continuity of a given circuit using multimetre
		. morning distinguishment magnetism.	Straight solenoid (only qualitative in treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field. Current loop as a magnetic dipole and its magnetic dipole moment, moving coil	
July	-	4. Moving Charges and Magnetism	galvanometerits current sensitivity and conversion to ammeter and voltmeter 5. Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines. Magnetic properties of materials: Parar, dia- and ferro - magnetic substances with examples. Magneticzation of	Expt.(4)To find resistance of a given wire / standard resistor using metre bridge Expt(5)To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
	20	5.Magnetism And Matter	materials, effect of temperature on magnetic properties. 6.Electromagnetic induction; Faraday's	
August	22	6.Electromagnetic Induction 7.Alternating Current	laws, induced EMF and current; Lenz's Law, Self and mutual induction. 7.Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit (phasors only),	Activity(4)To assemble the components of a given electrical circuit
		7.Alternating Current	7. Resonance, power in AC circuits, power factor, wattless current. AC generator, Transformer. Basic idsa of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary	Expt(6) To find the frequency of the AC mains with a Sonometer
September	11	Ray Optics and optical instruments 0. Wave optics	facts about their uses Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, enses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism. Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers. Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using	Activity(6)To study effect of intensity of light on an LDR. Activity(6)To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab
October	14	10.Wave Optics	wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double sitt experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single sitt, width of central maxima (qualitative treatment only).	Expt.(7)To find the focal length of a convex mirror, using a convex lens Expt.(7)To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation
		11.Dual Nature of Radiation And Matter	Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation- particle nature of light. Experimental study of photoelectric effect Matter waves-wave nature of particles, de- Broglie relation	Expt.(8)To determine refractive index of a glass slab using a travelling microscope.

November	15	12.Atoms	12. Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom, Expression for radius of nth possible orbit, velocity and energy of electron in his orbit, of hydrogen line spectra (qualitative treatment only).			
		13.Nuclei	Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.			
December	25	14.Semiconductor Devices	Energy bands in conductors, semiconductors and insulators (qualitative ideas only) intrinsic and extrensic semiconductors; pand n type, p-n junction Semiconductor diode -I-V characteristics in forward and reverse bias, diode as a rectifier.	Expt(9)To draw the I-V characteristic curve for a p-n junction diode in forward bias and reverse bias.		
January		Pre Board Examination	Pre Board Examination			

April 2	No.of working days 22	Chemistry Chapter 1- Solutions	Content/Sub Topic Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raouff's law, colligative properties - relative lowering of vapour pressure,	Activity Volumteric Analysis
May 2	222	Chapter 1- Solutions	solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapour pressure,	Volumteric Analysis
		Chapter 6- Haloalkanes and Haloarenes	elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor. Haloalkanes: Nomenclature, nature of C–X bond,	Volumteric Analysis
			physical and chemical properties, optical rotation mechanism of substitution reactions. Haloarenes: Nature of C-X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only).	
June 1	2	Chapter 6- Haloalkanes and Haloarenes(conti)	Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.	Volumteric Analysis
	18	Chapter 2- Electro Chemistry	Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.	Volumteric Analysis
July 2	20	Chapter 3- Chemical Kinetics	Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.	Salt Analysis
August 2	222	Chapter 7- Alcohol, phenol and ether	Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and thanol. Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilie substitution reactions, uses of phenols	Salt Analysis
September 1	11	Chapter 4- d-and f-Block Elements	General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first-row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of \$ZC/2O7\$ and KMnO4.Lanthanoids—Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids—Electronic configuration, oxidation states and comparison with lanthanoids.	
October 1	14	Chapter 5- Coordination Compounds	Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT; structure and stereoisomerism, the importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).	Salt Analysis
		Chapter 8 Aldehyde, Ketones and Carboxylic Aci	Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses.	Organic Compound Analysis
November 1	15	Chapter 8 Aldehyde, Ketones and Carboxylic Acid (conti)	Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.	Organic Compound Analysis
		Chapter 9 Amines	Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.	Organic Compound Analysis
December 2	25	Chapter 10- Biomolecules	Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates. Proteins - Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes. Hormones - Elementary idea excluding structure. Vitamins - Classification and functions. Nucleic Acids: DNA and RNA.	Organic Compound Analysis
January 1	13	Revision Pre Board Examination	Revision Pre Board Examination	

			GRADE 12 Sci-SPLIT UP SYLLABUS-BIOLOGY(2025-20:	26)
Month	No. Of Teaching Days	Chapter No./ Chapter's Name	Topics	Lab Experiments/Activities
		Chapter-1: Sexual Reproduction in Flowering Plants	breeding devices; pollen-pistil interaction; double	To observe pollen germination on stigma through a permanent slide or scanning electron micrograph. To prepare a temporary mount to observe pollen germination. Flowers adapted to pollination by different agencies (wind, insects, birds).
April	22	Chapter-2: Human Reproduction	Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis -spermatogenesis and oogenesis; menstrual cycle; fertilisation, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation; parturition; lactation	I. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice). To study Meiosis in onion bud cell or grasshopper testis through permanent slides. T.S. of blastula through permanent slides (Mammalian). To Prepare a temporary mount of onion root tip to study mitosis.
		Chapter-3: Reproductive Health	Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT.	
May	2		Subject enrichment activities	
		Chapter-4: Principles of Inheritance and Variation	Heredity and variation: Mendelian inheritance; deviations from Mendelism – incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; Sex determination - in humans, birds and honey bee; linkage and crossing over; sex linked inheritance - haemophilia, colour blindness; Mendelian disorders in humans - thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.	1. To study Mendelian inheritance using seeds of different colour/sizes of any plant. 2. To prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colourblindness.
June	18	Chapter-5: Molecular Basis of Inheritance	Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene 8 expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting.	
		Chapter-6: Evolution	Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution, mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution.	To study homologous and analogous organs in plants and animals through models/flash cards.
July	20	Chapter-7: Human Health and Diseases	Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse.	To observe common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any funguscausing ringworm through permanent slides, models or virtual images. Comment onsymptoms of diseases that they cause.
		Chapter-8: Microbes in Human Welfare	Microbes in food processing, industrial production, sewage treatment, energy generation andmicrobes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use	
		Chapter-9: Biotechnology - Principles and Processes	Genetic Engineering (Recombinant DNA Technology).	To Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.
August	22	Chapter-10: Biotechnology and its Applications	Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms	
September	11	Chapter-10: Biotechnology and its Applications (contd)	Application of biotechnology - Transgenic animals; biosafety issues, biopiracy and patents.	
October	14	Chapter-11: Organisms and Populations	Organisms and environment: Habitat and niche, population and ecological adaptations; population interactions - mutualism, competition, predation, parasitism; population attributes - growth, birth rate and death rate, age distribution.	To study the plant population density by quadrat method. To study the plant population frequency by quadrat method
November	15	Chapter-12: Ecosystem	Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy	

December		Chapter-13: Biodiversity and its	Biodiversity - Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites.	To study symbiotic association in root nodules of leguminous plants, cuscuta on host and lichens.		
			Pre-Board Exams			
			Tic-board Exams			
January	13	DOUBT CLARIFICATION SESSION FOR BOARD EXAMS				

GRADE 12 -SPLIT UP SYLLABUS-(2025-2026)

			Mathematics	
Month	No. Of Teaching Days	Chapter's Name	Торіс	Writing Skills/ Activity/ Practical
April		Ch-3 Matrices	Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).	Mind map
	22	Ch- 4 Determinants	Determinant of a square matrix (up to 3 x 3 matrices), minors, co- factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples.	Quiz
May	2	Ch- 4 Determinants (Continued)	solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.	-
June		Ch-1 Relations and Functions		Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by $R = \{I, m\}$: I is parallel to m } is an equivalence relation.
	18	Ch-2 Inverse Trigonometric Functions	Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions	Activity 2:To draw the graph of sin-1 x , using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x)
July	20	Ch- 5 Continuity and Differentiability	Continuity and differentiability, chain rule, derivative of inverse trigonometric functions, <i>like</i> sin-1 x, cos-1 x and tan-1 x, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives	Activity 3:To verify Rolle's Theorem.
August	20	Ch- 6 Applications of Derivatives	Applications of derivatives: rate of change of quantities, increasing/decreasing functions, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as reallife situations).	Activity 4:To understand the concepts of decreasing and increasing functions Activity 5: To verify that amongst all the rectangles of the same perimeter , the square has the maximum area.
August	22	Ch- 7 Integrals	Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them. Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.	Activity 6:To evaluate the definite integral from a to b of given function as the limit of a sum and verify it by actual integration.
		Ch-8 Applications of the Integrals	Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only)	-
September	11	Ch- 12 Linear Programming	Introduction, related terminology such as constraints, objective function, optimization, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).	Group assessment
October		Ch- 10 Vectors	Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors.	Activity 7:To verify that angle in a semicircle is a right angle, using vector method.
	14	Ch- 11 Three - dimensional Geometry	Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, skew lines, shortest distance between two lines. Angle between two lines	Activity 8 : To sketch the graphs of a rise to x and $\log x$, $a > 0$, a is not equal to 1 and to examine that they are mirror images of each other. Activity 9 : To measure the shortest distance between two skew lines and verify it analytically.
November	15	Ch- 13 Probability	Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean of random variable.	Activity10:To explain the computation of conditional probability of a given event A when event B has already occured, through an example of throwing a pair of dice.
December	25	Ch- 9 Differential Equations	Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type: $dy/dx + py = q$, where p and q are functions of x or constants. $dx/dy + px = q$, where p and q are functions of y or constants	Mind Map
January	13	-	-	-
February	22			

		SIADE II	-SPLIT UP SYLLABUS-(2025-2026) Applied Mathematics	
Month	No. Of Teaching Days	Chapter's Name	Topic	Writing Skills/ Activity/ Practical
April		Ch-2 Matrices	Inverse of A Matrix Solving system of simultaneous equations using matrix method Cramer's Rule Algebra of Matrices Matrices and types of Matrices Determinants Equality of Matrices Transpose of a Matrix Symmetric and Skew Symmetric Matrix	Using spresdsheet find the inverse of a matrices.
	22	Ch- 2 Determinants	Determinant of a square matrix (up to 3 x 3 matrices), minors, co- factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples.	Draw Mid map
May	2	Ch- 2 Determinants (Continued)	solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.	Solve application base Case Study
June		Ch-1Numbers, Quantification and Numerical Applications	Congruence Modulo Modulo Arithmetic Numerical Inequalities Alligation And Mixture Numerical Problems Boats and Streams (Upstream And Downstream) Races and Games Pipes and Gisterns	To understand the concepts of Congruence Modulo and Equivalence Class by findingcongruence modulo 6 and of first 50 natural numbers. Segregate the above results on the basis of their remainders for mod 6.
	18	chapter -1 Relations and Functions	Components of Time Series Methods of Measuring Trend Time Series Secular Trend Time Series Analysis for Univariate Data	Collect data from newspapers on traffic, sports activities and market trends and use excel to study future trends
		Ch-3A- Differentiation and its Applications		Find Area between curves.
July	20		Marginal Cost and Marginal Revenue using Derivatives Maxima and Minima Application of Derivatives Higher-Order Derivatives Increasing / Decreasing Functions	
August	22	Ch- 3B- Integration	Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them.Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals	Activity: To evaluate the definite integral from a to b of given function as the limit of a sum and verify it by actual integration.
		Ch-8 Applications of the Integrals	Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only)	
September	11	Ch-5 Inferential Statistics	Population and Sample T-Test and Two Independent Groups T-Test) Parameter and Statistics and Statistical Interferences	Project Work: Analysis of population migration data – positive and negative influence on urbanization
October		Ch-7 Financial Mathematics	Calculation of Emi Linear Method of Depreciation Perpetuity Sinking Funds Compound Annual Growth Rate Calculation of Returns Nominal Rate of Return	Stock Market data sheet on excel.Real life examples of sinking fund, Advantages of Sinking Fund, Sinking Fund vs. Savings account
25.3501	14	Ch-8 Linear Programming Problem	Feasible and Infeasible Solutions Optimal Feasible Solution Introduction and Related Terminology Feasible and Infeasible Regions Mathematical Formulation of linear programming problem Graphical method of solution for problems in two variables	Assignment of a company by choosing a certain number of employees to complete the assignment within the required deadline, given that a single person works on only one job within the assignment. In this type of problem, the number of employees, the work-hours of each employee etc. are
November	15	Ch-4Probability Distributions	Variance Mathematical Expectation Normal Distribution Probability Distribution Poisson Distribution Binomial Distribution	work nours at each employee etc. are Find conditional probability of an event.
December	25	Ch-3C-Differential Equations and Modeling	Application of Differential Equations Differential Equations Formulating and Solving Differential Equations	Data Analysis through Excel

GRADE 12 -SPLIT UP SYLLABUS-(2025-2026)

Business Studies

Month	No. of Teaching Days	Chapter's Name	Торіс	Writing Skills/ Activity/ Practical						
April	22	Nature and Significance of Management	Management - concept, objectives, and importance Management as science, art and profession Levels of Management Management Functions - planning, organizing, staffing, directing and controlling Coordination - concept and importance	Chart for levels of manegement						
		2. Principles of Management	Principles of Management - concept and significance Fayol's principles of management Taylor's scientific management- principles and techniques	A detailed case study for scientific principles of management						
May	2	Test	Test							
June	18	3. Business Environment	Business Environment - concept and importance Dimensions of Business Environment - Economic, Social, Technological, Political and Legal Demonetization - concept and features	Study of business evironment from current industrial situations						
July	20	11. Marketing	Marketing – concept, functions and philosophies Marketing Mix – concept and elements Product – branding, labeling and packaging – concept Price - Concept, Factors determining price Physical Distribution – concept, components and channels of distribution Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations	Prepare a project for a new product marketing mix						
	22	22				4. Planning	Planning: concept, importance and limitation Planning process Single use and Standing Plans. Objectives, Strategy, Policy, Procedure, Method, Rule, Budget and Programme	Chart and a mind map for types of plans		
August			5. Organizing	Organising: Concept and importance Organising Process Structure of organisation- functional and divisional concept. Formal and informal organization - concept Delegation: concept, elements and importance Decentralization: concept and importance	Group discussion on formal and informal concept of organisation					
		6. Staffing	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 - vestibule training, apprenticeship training and internship training	Case study for recruitment and selection						
September	11	7. Directing	Directing: Concept and importance Elements of Directing 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?	Stories of Suscessful business leadres						
October	14	8. Controlling	Controlling - Concept and importance Relationship between planning and controlling Steps in process of control	Chart for steps in the process of controlling						
November	15	15	15					9. Financial Management	Financial Management: Concept, role and objectives Financial decisions: investment, financing and dividend - Meaning and factors affecting Financial Planning - concept and importance Capital Structure - concept and factors affecting capital structure Fixed and Working Capital - Concept and factors affecting their requirements	Discussion on Financial planning of Current firm
November				10. Financial Markets	Financial Markets: Concept Money Market: Concept Capital market and its types (primary and secondary) Stock Exchange - Functions and trading procedure Securities and Exchange Board of India (SEBI) - objectives and functions	Study of Role of SEBI				
December	25	12. Consumer Protection	Consumer Protection: Concept and importance The Consumer Protection Act, 2019: Meaning of consumer, Rights and responsibilities of consumers Who can file a complaint?, Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs)	Case study based on Consumer Protection Act and rights and responsibilities of a consumer						
January	13	Revision and doubt solving								
February	22									
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			GRADE 12 -SPLIT UP SYLLABUS-(2025-2026)		
			Accountancy		
Month	No. Of Teaching Days	Chapter's Name	Торіс	Writing Skills/ Activity/ Practical	
	,-	PART -2	Topio	Wining Skinsy Heavily/ Fraction	
		Chapter 1 Accounting for share capital	Introduction of Share and share capital: nature and types, Issue of Shares, Accounting tratment for forefieture and reisuue of shares	Study abount Joint Stock Compnies Act	
April	22				
		TEST	Accounting for Share Capital		
May	2				
		2. Accounting For Debentures	Jornal entries for Issue of Debentures, Journal entries with the terms of Redemption, Issue of Debentures as Colletaral Security, Issue of Debentures other than Cash	Format of Journal	
		3. Financial Statements of the Company	Major head- Sub Heads	Format of Comany's Profit and Loss Statement and Balance	e Sheet
June	18	Comprative-Commomsize Statements	Comparative Balance Sheet and Profit and Loss Statement, Commonsize Balance Sheet and Profit and Loss Statement		
		5. Accounting Ratios	Calculation of different Ratios and Intrepretation		
Jully	20	Cash flow statement	Preparation of Cash flow statement		
		Cash flow statement	Preparation of Cash flow statement		
		PART-I			
August	22	Accounting for Partnership Firms - Basic Concepts	Partnership: features, Partnership Deed. Provisions of the Indian Partnership Act 1932 Fixed v/s fluctuating capital accounts. Preparation of Profit and Loss Appropriation Account, Division of profit among partners, guarantee of profits to a paertner, Past Adjustments	Format of Partners' Capital Accounts	
		2. Admission of new partner	New profit sahring ratio, Sacrificing Ratio, Goodwill, Revaluation Account and Partnes Capital account, Adjustment of Capitals	Format of Revaluation Account	
		Revision			
September	11				
		2. Admission of new partner	Change in Profit Sharing ratio among the Existing Partners		
October	14	3. Retirement/Death of a Partner	Ascertaining the Amount due to Rertiring/Deceased Partner, New Profit Sharing Ratio, faining ratio, Treatment of goodwill (as per AS 26), Adjustments for revaluation of assets and reassessment of liabilities, Revalution account, Partners Capital Account	Format of Retiring/Deceased Partner's Capital Account	
November	15	3. Retirement/Death of a Partner	Executor's Loan Account	Format of Executor's Loan Account	
		Dissolution of Partnership Firms	Dissolution of Partnership, Dissolution of Partnership Firms, Settlement of Accounts, Accounting Treatment	Format of Realisation Account	
		Revision			
December	25				
		Pre-Board Exam			
January	13				

			GRADE 12 SPLIT UP SY		
	Month	No. Of Teaching Days	Chapter's Name	Торіс	Writing Skills/ Activity/ Practical
			Indian Economic Development : Chapter 1 Indian Economy on the Eve of Independence	become familiar with the state of the Indian economy in 1947, the year of India's Independence. understand the factors that led to the underdevelopment and stagnation of the Indian economy.	Prepare a list of goods and services that were available to people in pre-independence India in rural and urban areas. Compare it with the consumption pattern of such goods and services by the people today. Highlight the perceptible difference in the people's standard of living.
			Indian Economic Development : Chapter 2 Indian Economy 1950-1990	The goals of Five Year Plans Agriculture Industry and trade Trade policy : Important subsitution	Prepare pie chart on the occupational structure of the Indian economy.
	April	22	Introductory Macroeconomics : Chapter 1 Introduction	Introductory Macroeconomics : Chapter 1 Introduction	Differenciate between: Microeconomics & Macroeconomics
			Introductory Macroeconomics : Chapter 2 National Income AccountingContinue	Circular flow of Income National income and related aggregates : Some basic concepts Measurement of national inco,me : Methods of calculating national income	Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method
	Мау	2		Circular flow of Income National income and related aggregates : Some basic concepts Measurement of national inco,me : Methods of calculating national income	Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method
	June	18	Introductory Macroeconomics : Chapter 2 National Income AccountingContinue	Circular flow of Income National income and related aggregates : Some basic concepts Measurement of national inco,me : Methods of calculating national income	Numerical Problems on different methods of calculation of National Income a- Product Method b- Income Method c- Expenditure Method
	July	20	Indian Economic Development : Chapter 3 Librelisation, Globalisation and Privatisation	Background Librelisation Globalisation Privatisation Indian economy during reforms	Was it necessary for India to introduce economic reforms at the behest of World Bank and International Monetary Fund? Was there no alternative for the government to solve the balance of payments crisis? Discuss in the classroom.
			Chapter 3 Money and Banking	Functions of money Demand and supply of money Money creation by banking system Policy tools to control money supply	Numerical problems on : Money supply Money creation
	August	st 22		Human capital and human development State of human capital formation in India Education sector in India Future prospects	Identify how Human Development Index is calculated. What is the position of India in the World Human Development Index?
			Introductory Macroeconomics : Chapter 4 Determination of Income and Employment	Aggregate demand & aggregate supply Income determination and multiplyer Excess demand and deficient demand	Curves related to various functions of economy Numerical problems on : APC, APS, MPC, MPS Investment Multiplyer 'K'
	September	11	Indian Economic Development : Chapter 5 Rural Development	What is rural development? Credit marketing in rural areas Agriculture market system Diversification in product activities Sustanable development and organic farming	Enlist some problems faced by farmers during the initial years of organic farming.
	- Cop. Co			Budget : Meaning, Features Objectives Budget : Structure and Components Meaning of Budget receipts and expenditure Budget deficit and its types	Numericals problems on : Revenue deficit Fiscal deficit Primary deficit
	October	14	Indian Economic Development : Chapter 6 Employment : Growth, Informalisation and Other Issues	Workers and employment Participation of people in employment Self-employed and hired workers Employment in firms, factories and offices Growth and changing structure of employment Informalisation of Indian workforce Government and employment generation	In recent years, you may have noticed that many voluntary organisations also take initiatives to generate employment in hilly and dry land regions. If you find such initiatives in your locality, visit and prepare a report
				Budget : Meaning, Features Objectives Budget : Structure and Components Meaning of Budget receipts and expenditure Budget deficit and its types	Numericals problems on : Revenue deficit Fiscal deficit Primary deficit
	November	15	Indian Economic Development : Chapter 7 Environment and sustainable development	Environment : defination and functions State of India's environment Sustainable development Strategies for sustainable development	Prepare a chart on the causes and remedies of soil erosion in India.
			Budget and the EconomyContinue	Budget : Meaning, Features Objectives Budget : Structure and Components Meaning of Budget receipts and expenditure Budget deficit and its types	Numericals problems on : Revenue deficit Fiscal deficit Primary deficit
	December	25	Indian Economic Development : Chapter 8 Comparative Development Experiences of India and Neighbous	Developmental path - A snapshot Demographic indicators GDP and sectors Indicators of human development Development strategies - An appraisal	A class debate on the issue of free trade between India and China and India and Pakistan.
			Introductory Macroeconomics : Chapter 6 Open Economy Macroeconomics	The balance of payments Foreign exchange rate	Numerical problems on : Current account balance Capital account balance
	January February	13 22	AISSCE - Practical / Viva 2025-26 AISSCE - Theory 2025-26		

			GRADE 12 -SPLIT UP SYLLABUS-(2025-2026)	
			Entrepreneurship	
Month	No. Of Teaching Days	Chapter's Name	Торіс	Writing Skills/ Activity/ Practical
April	22	Chpter 1 Entrepreneurial Opportunity		
			Sensing Entrepreneurial Opportunities Environment Scanning and Problem Identification Spotting Trends Creativity and Innovation • Selecting the Right Opportunity	practical project for probelem identification and turn it in an opportunity
May	2			
June	18	Chpter 2: Entrepreneurial Planning	Forms of business organization- Soleproprietorship, Partnership, Company Business Plan: concept, format "Components: Organisational plan; Operational plan; Production plan; Financial plan; Human Resource planning"	Project for business planning
July	20	Unit 3: Enterprise Marketing	Marketing and Sales Strategy Branding, Logo, Tagline Promotion Strategy	Product Marketing
August	22	Unit 3: Enterprise Marketing (Continue)	Negotiations - Importance and Methods Customer Relationship Management Vendor Management	Project preparation
		Chpater 4: Enterprise Growth Strategies	Franchising: Concept, types, advantages, limitations. Mergers and Acquisition: Concept, reasons, types.	
September	11	Chpater 4: Enterprise Growth Strategies	Reasons for failure of Mergers and Acquisitions	Chart preparation for Types of franchising
September	11	Revision	Reasons for famule of Mergers and Acquisitions	Chart preparation for Types of Hanchising
October	14	Chapter 5: Business Arithmetic	Unit of Sale, Unit Cost for multiple products or services "Break even Analysis for multiple products or services	Numerical solution
November	15	Unit 6: Resource Mobilization	"Capital Market- Primary and Secondary Stock Exchange- Concept, features, functions and importance" Securities and Exchange Board of IndiaHistory, establishment, powers	Group discussion on financial resources
December	25	Unit 6: Resource Mobilization (Continue)	Angel Investor: Features	Study Of Share market
			Revision	1
January	13			
			PRE-BOARDS	

		GRADE 12	-SPLIT UP SYLLABUS-(2025-2026)		
	No. Of	1	Political Science	T	
Month	Teaching Days	Chapter's Name	Торіс	Writing Skills/ Activity/ Practical	
April		Part-1 Chapter 1- The End of Bipolarity	Topics to be focused: a) The Soviet System b) Gorbachev and the disintegration c) Causes and Consequences of disintegration of Soviet Union d) Shock Therapy and its Consequences e) New entities in world politics Russia Balkan States Central Asian States f) India's relations with Russia and other post-communist countries	Group Discussion: Causes and consequences of disintegration of USSR Documentaries-Past & present situations in USSR/Post Soviet Republics Analysis of relevant newspaper articles	
	21	Part-1 Chapter 2Contemporary Centres of Power	Topics to be focused: a) European Union b) Association of Southeast Asian Nations	Discussion: Importance on regional organisations Comparative study:	
June		Part-1 Chapter 2Contemporary Centres of Power (conti)	c) Rise of China as an economic power d) Japan and South Korea as emerging powers	Economic growth of China, Japan and South Korea. Use of timeline Inquiry based learning Map activity Interpretation of cartoons/ Pictures/ Newspaper clippings	
June	22	Part-2 Chapter:1Challenges of Nation- Building	Topics to be focused: a) Challenges for the new Nation. □ Three Challenges. b) Partition: Displacement and Rehabilitation. □ Consequences of Partition.	Documentaries Discussion: Causes and consequences of Partition Live Experiences-Meeting People who lived through this period.	
		Part-2 Chapter:1Challenges of Nation- Building	c) Integration of Princely States. The problem Government's approach Hyderabad Manipur d) Reorganisation of States	Cartoon Interpretation Map Activity	
July	6+12	Part-2 Chapter:3Politics of Planned Development	Politics of Planned Development Topics to be focussed: a) Political contestation. Ideas of Development. Planning Planning Commission b) The Early Initiatives The First Five Year Plan. Rapid Industrialisation	Politics of Planned Development Topics to be focussed: a) Political contestation. Ideas of Development. Planning Planning Commission b) The Early Initiatives The First Five Year Plan. Rapid Industrialisation	
		Part-2 Chapter: 2 Era of One-Party	Era of One-Party Dominance Topics to be focussed: a) Challenge of building democracy b) Congress dominance in the first three general		
August		Dominance	clect ions. Nature of Congress dominance Congress as social and ideological coalition. Tolerance and management of Factions c) Emergence of opposition parties	Maps/Cartoons Question strategy Quiz	
	23	Part-2 Chapter:4 India's External Relation	a) International Context b) The Policy of NonAlignment. □ Nehru's role □ Distance from two camps. □ Afro Asian Unity c) Peace and conflict with China □ The Chinese Invasion1962 □ War and Peace with Pakistan □ Bangladesh War 1971 d) India's Nuclear Policy.	Presentation: NAM founders, objectives, principles and its relevance in contemporary world politics Group discussion: India's relations with China and Pakistan (past, present and future) Debate: India's stand on shifting alliances Research and Report Writing	
September	5+6	Part-1 Chapter:3Contemporary South Asia	Topics to be focused: a) Military and Democracy in Pakistan and Bangladesh b) Monarchy and Democracy in Nepal c) Ethnic Conflict and Democracy in Sri Lanka d) India-Pakistan Conflicts e) India and its Neighbours f) Peace and Cooperation	Map activity Comparative Analysis: Political systems of South Asian countries Use of Historical data Interpretation of cartoons/Pictures /Newspaper clippings Discussion: Current economic crisis in Sri Lanka and Pakistan	
		Part-1 Chapter:4 International Organizatio	a) Meaning and importance of International Organisations b) Evolution of the UN c) Structure and function of International Organisations d) Principal Organs of UN e) Reform of the UN after Cold War f) Reform of Structures, Processes and Jurisdiction of the UN g) India and the UN Reforms h) Key Agencies: IMF, World Bank, WTO, ILO, IAEA. i) NGO: Amnesty International, Human Rights Watch. j) Implications and Future of		
October			Topics to be focused: a) Challenge of Political Succession □ From Nehru to Shastri □ From Shastri to Indira Gandhi b) Fourth General Election 1967 □ Context of the Election. □ Non Congressism □ Electoral Verdict □ Coalitions □ Defections □ Split in the Congress □ Indira vs the Syndicate	Use of timeline Comparative analysis: Political Succession	
		Part-2 Chapter:5Challenges to and Restoration of the Congress System	□ Presidential Election 1969 d) The 1971 Election and Restoration of Congress □ The outcome and after □ Restoration?	Group discussion: Changing electoral performance of the congress Interpretation of cartoons Map Activity	

	22	Part-2 Chapter:6The Crisis of Democratic Order	: a) Background to Emergency. □ Economic Context. □ Gujarat and Bihar Movements □ Conflict with Judiciary b) Declaration of Emergency □ Crisis and response □ Consequences Group discussion: Based on Newspaper articles and other media information with respect to emergency, c) Lessons of the Emergency.	Group discussion: Based on Newspaper articles and other media information with respect to emergency Quiz Cartoon Interpretation Map Activity	
November	22	Part-1 Chapter:5 Security in the Contemporary World	Topics to be focused: a) Meaning and Type of Security. b) Traditional concept of security c) Non-tradition notions of Security. d) New Sources of Threats e) Cooperative Security f) India's Security strategy	Discussions and debates: New sources of threat Comparative analysis: Security concerns of different countries Interpretation of cartoons/Pictures Collaborative concept mapping: India's initiatives and policies towards security.	
		Part-2 Chapter: 7 Regional Aspirations	Topics to be focused: a) Region and the Nation □ Indian Approach □ Areas of Tension □ Jammu and Kashmir □ Roots of the Problem □ External and Internal disputes □ Politics since 1948 □ Insurgency and After □ 2022 and Beyond b) Punjab □ Political Context □ Cycle of Violence □ Road to Peace c) The Northeast □ Demand for autonomy □ Secessionist Movements □ Movements against outsiders □ Assam and Nationa	Topics to be focused: a) Region and the Nation □ Indian Approach □ Areas of Tension □ Jammu and Kashmir □ Roots of the Problem □ External and Internal disputes □ Politics since 1948 □ Insurgency and After □ 2022 and Beyond b) Punjab □ Political Context □ Cycle of Violence □ Road to Peace c) The Northeast □ Demand for autonomy □ Secessionist Movements □ Movements against outsiders □ Assam and Nationa	
	14	Part-2 Chapter:8 Recent Developments in	Topics to be focused a) Context of 1990s b) Era of Coalition Alliance Politics c) Political rise if the Backward Classes Mandal Implemented Political Fallouts d) Communalism, Secularism and Democracy. Ayodhya Dispute Demolition and after e) Emergence of New Consensus f) Lok Sabha Elections 2004 g) Growing Consensus	Comparative analysis: Different developments taking place in present scenario with that of twentieth century. Timeline Interpretation of Cartoons/Caricatures Quiz Reflective Enquiry	
		Part-1 Chapter:6 Environment and Natural Resources	Topics to be focused: a) Environmental Concerns b) Global Commons c) Common but differentiated Responsibilities d) India's Stand on Environment Issues c) Environmental Movements f) Resource Geopolitics g) Rights of Indigenous peoples	Presentation: Environmental issues Recapitulation Debate and discussion: Indigenous communities of the world and their concerns Newspaper activity to inculcate concern, awareness and environmental morality	
	23	Part-1 Chapter : 7 Globalisation	a) Concept of globalisation b) Causes and Consequences of globalisation c) India and globalization d) Resistance to globalization e) India and resistance to globalisation	Group discussion: Positive and negative impact of globalization. Interpretation of Cartoons Question strategy	
January	16				
February	21	Pre- Boards & Board Exan	nination		

April June	No. Of eaching Days	Chapter's Name Chapter 1: variations in psychological attributes	Psychology Topic Assessment of Psychological Attributes Intelligence Theories of Intelligence Individual Differences in Intelligence Culture and Intelligence Individual Differences in Human Functioning Special Abilities: Aptitude: Nature and Measurement 1. Introduction 2. Self and Personality 3. Concept of Self 24 Periods 4. Cognitive and Behavioural Aspects of Self 5. Culture and Self 6. Concept of Personality	Writing Skills/ Activity/ Practical Activity 1-Find out the IQ of a 14-year-old child with a mental age of 16. -Find out the mental age of a 12-year-old child with an IQ of 90. Activity 2. Discovering the Attributes of Intelligent Persons. Activities: 1. Understanding the Self questionnaire 2. Observe and note your behaviour characteristics and those of your friends that have been imbibed from popular youth icons
April June	eaching Days		Assessment of Psychological Attributes Intelligence Theories of Intelligence Individual Differences in Intelligence Culture and Intelligence Individual Differences in Human Functioning Special Abilities: Aptitude: Nature and Measurement 1. Introduction 2. Self and Personality 3. Concept of Self 24 Periods 4. Cognitive and Behavioural Aspects of Self 5. Culture and Self 6. Concept of Personality	Activity 1-Find out the IQ of a 14-year-old child with a mental age of 16. -Find out the mental age of a 12-year-old child with an IQ of 90. Activity 2. Discovering the Attributes of Intelligent Persons. Activities: 1. Understanding the Self questionnaire 2. Observe and note your behaviour characteristics and those of your friends that have been imbibed from
June	·		Intelligence Theories of Intelligence Individual Differences in Intelligence Culture and Intelligence Individual Differences in Human Functioning Special Abilities: Aptitude: Nature and Measurement 1. Introduction 2. Self and Personality 3. Concept of Self 24 Periods 4. Cognitive and Behavioural Aspects of Self 5. Culture and Self 6. Concept of Personality	Activity 1-Find out the IQ of a 14-year-old child with a mental age of 16. -Find out the mental age of a 12-year-old child with an IQ of 90. Activity 2. Discovering the Attributes of Intelligent Persons. Activities: 1. Understanding the Self questionnaire 2. Observe and note your behaviour characteristics and those of your friends that have been imbibed from
June	21		Theories of Intelligence Individual Differences in Intelligence Culture and Intelligence Individual Differences in Human Functioning Special Abilities: Aptitude: Nature and Measurement 1. Introduction 2. Self and Personality 3. Concept of Self 24 Periods 4. Cognitive and Behavioural Aspects of Self 5. Culture and Self 6. Concept of Personality	Activity 2. Discovering the Attributes of Intelligent Persons. Activities: 1. Understanding the Self questionnaire 2. Observe and note your behaviour characteristics and those of your friends that have been imbibed from
June	21		Individual Differences in Intelligence Culture and Intelligence Individual Differences in Human Functioning Special Abilities: Aptitude: Nature and Measurement 1. Introduction 2. Self and Personality 3. Concept of Self 24 Periods 4. Cognitive and Behavioural Aspects of Self 5. Culture and Self 6. Concept of Personality	Activities: 1. Understanding the Self questionnaire 2. Observe and note your behaviour characteristics and those of your friends that have been imbibed from
June	21		Individual Differences in Human Functioning Special Abilities: Aptitude: Nature and Measurement 1. Introduction 2. Self and Personality 3. Concept of Self 24 Periods 4. Cognitive and Behavioural Aspects of Self 5. Culture and Self 6. Concept of Personality	Understanding the Self questionnaire Observe and note your behaviour characteristics and those of your friends that have been imbibed from
June	21		Measurement 1. Introduction 2. Self and Personality 3. Concept of Self 24 Periods 4. Cognitive and Behavioural Aspects of Self 5. Culture and Self 6. Concept of Personality	Understanding the Self questionnaire Observe and note your behaviour characteristics and those of your friends that have been imbibed from
June			Self and Personality Concept of Self Periods Cognitive and Behavioural Aspects of Self Culture and Self Concept of Personality	Understanding the Self questionnaire Observe and note your behaviour characteristics and those of your friends that have been imbibed from
	22	Chapter 2 : self and personality	7. Major Approaches to the Study of Personality Type Approach Trait Approach Psychodynamic Approach Behavioural Approach Cultural Approach Humanistic Approach 8. Assessment of Personality Self-report Measures Projective Techniques	3. Personality assessment Test
	6+12	Chapter 3 : meeting life challenges	Introduction Nature, Types and Sources of Stress Effects of Stress on Psychological Functioning and Health	Identify the stressful events, which you and two your classmates have experienced in the past one year. List the streeful events and rank them from 1 to 5 that have had negative impact in your day-to-day functioning, then select those that are common to all three of you. Find out howmuch ability, skill and family support your friends and you have in order to deal with each of these stresses. Discuss these with your teacher.
August			Introduction Concepts of Abnormality and Psychological Disorders Historical Background Classification of Psychological Disorders Periods A Factors Underlying Abnormal Behaviour Major Psychological Disorders Anxiety Disorders Obsessive-Compulsive and Related Disorders Trauma-and Stressor-Related Disorders Somatic Symptom and Related Disorders Dissociative Disorder Bipolar and Related Disorders Schizophrenia Spectrum and Other Psychotic Disorders Neurodevelopmental Disorders Disruptive, Impulse-Control and Conduct Disorders Disorders Disruptive, Impulse-Control and Conduct Disorders Feeding and Eating Disorders	Certain behaviours like eating sand would be considered abnormal. But not if it was done aftr being stranded on a beach in a plain crash. Listed below are abnormal behaviours followd by situations where the behaviours might be considere normal (i) talking to yourelf - you are praying (ii) standing in the middle of the street waving your hands wildly - you are a traffic policeman. Think about this and list out similar examples.
	23	Chapter 4: psychological disorders	Substance Related and Addictive Disorders Nature and Process of Psychotherapy	Case Study
September		Chapter 5 : therapeutic approaches	☐ Therapeutic relationship 2. Types of Therapies ☐ Psychodynamic Therapy ☐ Behaviour Therapy ☐ Cognitive Therapy ☐ Humanistic-Existential Therapy ☐ Alternative Therapies 3. Rehabilitation of the Mentally III	

October	22		1. Introduction 2. Explaining Social Behaviour 3. Nature and Components of Attitudes 4. Attitude Formation and Change Attitude Formation 20 Periods Attitude Change Attitude-Behaviour Relationship 5. Prejudice and Discrimination 6. Strategies for Handling Prejudice 7. Social Cognition 8. Schemas and Stereotypes 9. Impression Formation and Explaining Behaviour of Others through Attributions Impression Formation Attribution of Causality 10. Behaviour in the Presence of Others 11. Pro-social Behaviour	A Survey: Attitudes Towards and Awareness of Waste Management
November			□ Factors Affecting Pro-social Behaviour 1. Introduction 2. Nature and Formation of Groups 3. Type of Groups 4. Influence of Group on Individual Behaviour □ Social Loafing □ Group Polarisation 5. Conformity, Compliance and Obedience 6. Cooperation and Competition □ Determinants of Cooperation and Competition 7. Social Identity 8. Intergroup Conflict: Nature and Causes 9. Conflict Resolution Strategies	Activity: Identifying Stages of Group Formation
December		Project	Students are required to administer and interpret three psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, selfconcept, adjustment, anxiety, interest etc. The focus should be on helping the student develop an understanding of human behavior through the administration of the tests, interpretation of the scores and its application in	In term 1 the student is introduced to administration, scoring, interpretation, & report writing of any 2 psychological tests.
January		Provided Overdenting	various situations/conditions	In Practical examination of term 2, the student will be required to administer and interpret one psychological test.
		Practical Conduction		
	16	Practical Conduction		
February	16	Practical Conduction		
February		Practical Conduction		
February	16	Practical Conduction		
February	16	Practical Conduction		
February	16	Practical Conduction		
February	16	Practical Conduction		
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February	16	Practical Conduction		
February	16	Practical Conduction		
February	16	Practical Conduction		

GRADE 12 -SPLIT UP SYLLABUS-(2025-2026)

Sociology

		_	Sociology	
Month	No. Of Teaching Days	chapter name	Topic	Writing Skills/ Activity/ Practical
April		The Demographic Structure of Indian Society	The Demographic Structure of the Indian Society □ Theories and concepts in demography □ Rural-Urban Linkages and Divisions □ Population Policy in India	Introduction, Statement of Purpose/Need and objectives of the study, Hypothesis/Research Question, Review of Literature, Presentation of Evidence, Methodology, Questionnaire, Data Collection.
	21			
June	22	3. Social Institutions: Continuity and Change	Social Institutions: Continuity and Change □ Caste and the Caste System □ Tribal Communities □ Family and Kinship	
July	6+12	Patterns of Social Inequality and Exclusion	Patterns of Social Inequality and Exclusion ☐ Social Inequality and Social Exclusion ☐ Systems justifying and perpetuating Inequality - Caste, Tribe, the Other Backward Classes ☐ Adivasi Struggles ☐ The Struggle for Women's Equality and Rights ☐ The struggles of the Differently Abled	Significance and relevance of the topic; challenges encountered while conducting the research.
August	23	The Challenges of Cultural Diversity	The Challenges of Cultural Diversity □ Cultural communities and the nation state □ Regionalism in the Indian context □ The Nation state and religion related issues and identities □ Communalism, secularism and the nation state □ State and Civil Society	
September	5+6	8. Structural Change	Cultural Change Social Reform Movements Different Kinds of Social Change: Sanskritisation Westernization, Modernization, Secularization	Content analysis and its relevance in the current scenario. Conclusion, Limitations, Bibliography, Annexures and Overall Presentation.
October	22	9. Cultural Change	Change and Development in Rural Society Agrarian Structure: Caste & class in Rural India Land Reforms, Green Revolution and Emerging Agrarian society Green revolution and its social consequences Transformation in Rural Society Circulation of labour Globalization, Liberalization and Rural Society	vExternal/ Internal Viva based on the project
November	14			
December	23	11.Change and Development in Rural Society	Change and Development in Industrial Society From Planned Industrialization to Liberalization How people find Jobs Work Processes: How work is carried out, working conditions, home based work, Strikes and Unions	case study
January	16	Project and Practical Exam		
	10			
February	21			

			GRADE 12 -SPLIT UP SYLLABUS-(2025-2026)									_			
	No. Of Teaching Days	1	Physical Education												
Month	Teaching Days	Chapter's Name Chapt.1. Planning in sports	Topics Methods of drawing fixtures, knockout tournaments, . league tournament, Round Robin Tournaments, Intramural, extramural	Writing Skills/ Activity/ Practical Practical planning of league system on Board and on ground practical of different tournament pattern											
			Changing Trends & Career in Physical Education - Meaning & definition of Physical Education - Mine & Objectives of Physical Education - Career Options in Physical Education - Kleels-India Program - Career Options in Physical Education - Kleels-India Program - teacing, special seeding, American membed of finding winners benefits of basedout ain lenger matches Nartition, Micros Natirests, Marco Narierists, Minerals, BMI, Eating disorders, America, Bullmin, Prittalis in deling, 1905 Supplimental - Treating Micros Cod Supplimental - Career - Cod Supplimental - Career - Career - Cod Supplimental - Career - Career - Ca												l
April	22	Chapt .1. Planning in sports (Continued)	Khelo-India Program seeding, special seeding, American method of finding winners.	Drawing fixtures for the different types of tournaments Practical planning of league system on Board and on ground practical of different tournament pattern											
May	2	Chapt .2 Sports and nutrition	benefits of knockout ans league matches Nutrition, Micro Nutrients, Macro Nutrients, Minerals, BMI, Entine disorders, Apprexia, Bulimia	ground practical of different tournament pattern Sports Nutrition Quiz and showing video.											
June	18	Chapt. 3. Yoga and life style	Pitfalls in dicting, Food Suppliments Thysical Fitness, Welfaces & Lifestyle - Components of physical Fitness, Welfaces & Lifestyle - Components of physical fitness and Welfaces - Components of Health related	Different agana reactives and Surva Namaskar											
July	20			Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh Matsyendrasana											
		Chapt.4. Sports for CWSN	Causes of Disorders, Autism , OCD, ADHD, SPD, Diabaliitit Eliquette and causes and treatment for different disorders	Making Charts on different postures. Showing Common Postural DeSomities video. Types of Disability, its causes & nature (cognitive disability, intellectual disability, physical disability)											
	22	Chapt. 5. Children and sports, Women and	Casuses of Disorders, Osteoporosis, Balimia,	disability, intellectual disability, physical disability) Making Charts on different postures.											
August		Sports Chapt. 6. Test, Measurement and Evaluation	Motor Fitness test General Motor Fitness – Barrow three item general motor	ulsatimus, meteocular disatimus, proyecta disatimus) Making Christ on different postures. Showing Common Postural Deformities video. Practical of Moore Fitness Test *Making Charts on different postures. Showing Common Postural Deformities video."	-										
			General Motor Fitness – Barrow three item general motor shifting measurement of Cardio Vascular Fitness – Harward Step TextRockfort Text and Jones - Senior Citizen Fitness Text Rikl and Jones - Senior Citizen Fitness Text Rikl and Jones - Senior Citizen Fitness Text Rikl and Jones - Senior Citizen Fitness Text Richard Cardio Card	Showing Common Postural Deformities video."											i
			Rikli and Jones - Senior Citizen Fitness Test Chair Stand test for lower body strength Arm Curl test for upper body strength												i
September	11														
		Chapt. 7. Sports and medicine	Sports medicine also known as Sport and Exercise Medicine (SEM) is a branch of medicine that specialises in the treatment and prevention of injuries related to participation in sports and/or exercise?	Classification (Soft Tissue)											
October	14	Chapt. 8. Biomechanics and sports	exercise'. Meaning And Importance of Biomechanics in sports	Injuries (Abrasion, Contusion, Laceration, Incision, Sprain & Strain) Bone & Joint											<u> </u>
			Meaning And Importance of Biomechanics in sports Newton law of motion & its application in sports Types of movements (flexion, Extension, Adhaetion, Addaetion)	Endurana Definition trace & methods to devalue											ĺ
November	15		Friction & Sports	Endurance - Definition, types & methods to develop Endurance - Continuous Training, Interval Training & Fartlek Training											
		Chapt. 9. Psychology and Sports	Understanding Stress & coping Strategies Personality, its definition & types, - Trait & Types & big five theory Motivation, its types & techniques Exercise Adherence; Reasons to Exercise, Benefits of Exercise.												ĺ
			Motivation, its types & techniques Exercise Adherence; Reasons to Exercise, Benefits of Exercise												ĺ
December	25		Strategies for Enhancing Adherence to Exercise Meaning, concept & types of Aggressions in Sports	Preparation of final draft of Project File											ĺ
JACCHIDET .	-23	Chapt. 10. Training in sports	Strength-definition, types &method Endurance-definition, types &method												
			Strength-definition, types &method Endurance-definition, types &method Speed-definition, types &method Speed-definition, types &method Flexibility-definition, types &method Coordinative Abillities-definition and types Circuit Training – intro & importance												i
Januare	13		Circuit Training – intro & importance	Preparation of final draft of Project File											
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GRADE 12 -SPLIT UP SYLLABUS-(2025-2026)

			Computer Science	
Month	No. Of Teaching Days	Chapter's Name	Торіс	Writing Skills/ Activity/ Practical
April	22	Revision Tour Of Python Unit 1: Computational Thinking and Programming – 2	Revision of Python topics covered in Class XI. • Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)	To reinforce concepts from all key units of Python and associated topics through hands-on activities and critical thinking.
June	18	Unit -2 Functions And Exception handling	Exception Handling: Introduction, handling exceptions using try-except-finally blocks Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using reading readines(), seek and tell methods, manipulation of data in a text file Binary file: basic operations on a binary file: open using file open mod	Write a Python program to simulate a basic inventory management system using lists and dictionaries. Include operations like add, update, delete, search. Display the flow using a flowchart or pseudocode. Practical Task: Create a menu-driven Python application that: Allows users to add product name, quantity, and price. Calculates the total value of inventory. Uses loops and conditional statements.
July	20	Binary File Handling	Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file	Use functions for input, processing, and display. Implement exception handling for invalid data types or missing values. Practical Task:Demonstrate try, except, else, and finally blocks. Create a user-defined function for division and handle divide-by-zero errors.
August	22	CSV File and Data Structure	CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader() - Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.	Read a CSV file containing employee records. Display highest-paid employee using dictionaries. Practical Task: Use csv.reader() and csv.writer(). Create a report of employees whose salary is above a threshold
September	11	Computer Network & Concept	Unit 2: Computer Networks • Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFINET, INTERNET) • Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching) • Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves) Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WiFl card) • Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) • Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP	Write a short note on the difference between IP address and MAC address. Explain client-server and peer-to-peer network models with examples. Practical Task (Theoretical): Identify and explain different types of network topologies using diagrams. Explain DNS, HTTP, FTP in 2-3 sentences each.
October	14	Unit :3 Data base managment Database managment II	Unit 3: Database Management Database concepts: introduction to database concepts and its need Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key) Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (charfn), varcharfn), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries	Using MySQL or any SQL environment: Execute queries for JOIN, GROUP BY, and aggregate functions. Import CSV data into SQL and perform search queries. Normalization and its types. Difference between primary key and foreign key with examples. Design a relational database for a Library Management System: Create tables for books, members, and transactions.
				Use keys to define relationships.
December	25	Revision of all practical and theory portion	Practicals and baord practicals practice and builting program	
January			Pre-Board Exams	

GRADE 12 -SPLIT UP SYLLABUS-(2025-202	26)
History	

		History		
Month	No. Of Teaching Days	Chapter's Name	Торіс	Writing Skills/ Activity/ Practical
		Bricks, Beads and Bones The Harappa Civilisation	☐ Familiarize the learner with the early urban centers as economic and social institutions. ☐ Introduce the ways in which new data can lead to a revision of existing notions of history. ☐ Find the difference between an archeologist and historian who Investigate and interpret historical and contemporary sources	□ To investigate, explore and interpret the early urban centres and social institutions. □ State and deduce the multilateral aspects of Harappan civilization to understand the first civilization of the world. □ Investigate and interpret historical and contemporary sources and viewpoints of ASI and historians on Harappa.
April	21	Kings, Farmers and Towns Early States and Economies (c.600 BCE600 CE)	☐ To Familiarize the learner with major trends in the political and economic history of the subcontinent.	☐ To critically evaluate and interpret major trends in the political and economic history of the subcontinent. ☐ Analyse inscriptional evidences and the ways in which these have shaped the understanding of political and economic processes.
		Kingship, Caste and class Early Societies (c. 600 BCE600 CE)	☐ To Familiarize the learners with issues in social history. ☐ Introduce the strategies of textual analysis and	☐ To examine, analyse the issues of social history. ☐ Analyse social norms in order to understand
June	22		their use in reconstructing social history. To appraise the condition of women during Mahabharata age.	the perspectives of society given in the scriptures of ancient India. Examine the varied dimensions explored by historians in order to understand dynamic approach of Mahabharata
		Thinkers, Beliefs and Buildings Cultural Developments (c. 600 BCE600 CE)	☐ Discuss the major religious developments in early India.	☐ To infer and compare the major religious developments in early India. ☐ Elucidate the rich religious sculpture and infer the stories
July	18(6+12)		☐ Introduce strategies of visual analysis and their use in reconstructing the theories of religion.	hidden in it.
August	23	Through the eyes of Travellers Perceptions of Society (c. tenth to seventeenth centuries)	□ Familiarize the learner with the salient features of social histories described by the travellers. □ Discuss how traveller's accounts can be used as sources of social history. □ Familiarise with the accounts of foreign travellers in order to understand the social political and economic life in the medieval period.	☐ To understand salient features of social histories described by the travellers and apply the learning in real life. ☐ Elucidating the accounts of foreign travellers in order to understand the social political and economic life during the tenure of different rulers in the medieval period.
		Bhakti-Sufi Traditions Changes in Religious Beliefs and Devotional Texts	□ Familiarize the learner with the religious developments. □ Discuss ways of analysing devotional literature	 □ Understand the religious developments. □ Summarize the philosophies of different Bhakti and Sufisaints to understand the religious developments during medieval period.
September	11(5+6)	An Imperial Capital – Vijayanagar	□ Acquaint the learner with the buildings monuments that were built during the time. □ To examine the 'excerpts or the sources more closely and discuss the ways in which architecture can be analysed to reconstruct history. □ Analyse city planning, water management system, administration of the rulers with the help of literary accounts of foreign traveller's and architectural evidence.	Students will be able to Classify the distinctive architectural contributions of the Vijayanagar empire to comprehend the richness of mingled cultures of deccan India. Analyse accounts of foreign traveller's on Vijayanagar in order to interpret political, social and cultural life of the city.
October	22	Peasants, zamindars and the States Agrarian Society and the Mughal Empire	☐ Engage the students to discuss the developments in agrarian relations. ☐ Discuss how to supplement official documents with other sources. ☐ Elaborate the agrarian changes occurred during sixteenth and seventeenth centuries. ☐ Explain the changes and differences in the agrarian sectors	Comprehend the facets of agrarian developments in order to understand the relationship between the state and the agriculture during Mughal period. Compare and contrast the agrarian changes occurred during sixteenth and seventeenth centuries
		Colonialism and The Countryside Exploring Official Archives	□ Discuss how colonialism affected zamindars, peasants and artisans. □ Explain the revenue systems introduced by the British to Comprehend the problems and limits of using official sources for understanding the lives of the people. □ Discuss about the types of records and reports.	□ Evaluate the revenue systems introduced by the British to understand the economic aspects of colonization in India. □ Analyse the colonial official records& reports to understand the divergent interest of British and Indians.
November	14	Rebels and Raj 1857 Revolt and its Representations	□ Discuss how the events of 1857 are being interpreted. □ Discuss how visual material can be used by historians to narrate events. □ Understand the planning and execution of the plan. □ Highlight the united contribution made by the Indian soldiers.	☐ To examine the events of 1857. ☐ Correlate the Planning and coordination of the rebels of 1857 to infer its domains and nature. ☐ Examine the momentum of the revolt to understand its spread.
		Mahatma Gandhi and the National Movement Civil Disobedience and Beyond	□ Discuss how Gandhi was perceived by different groups. □ Examine how historians need to read and interpret newspapers diaries and letters as a historical source. □ Throw light on nationalism and patriotism.	□ Understand the nationalist movement in chronological order. □ Explore the ways of interpreting historical source such as newspapers, biographies and autobiographies diaries and letters
	22	Framing of the Constitution The Beginning of a New Era	☐ Discuss how the founding ideals of the new nation state were debated and formulated. ☐ Understand how such debates and discussions can be read by historians. ☐ Discuss the other countries constitution and compare.	☐ Highlight the role of Constituent Assembly to understand functionaries in framing the constitution of India. ☐ Analyse how debates and discussions around important issues in the Constituent Assembly shaped our Constitution
December	23	Including Map work of the related Themes	Mature Harappan sites: Harappa, Banawali, Kalibangan, Balakot, Rakhigarhi, Dholavira, Nageshwar, Lothal, Mohenjodaro, Chanhudaro, KotDiji. Territories/cities under British Control in1857: Punjab, Sindh, Bombay, Madras Berar, Bengal,	
_			Bihar, Orissa, Surat, Calcutta, Patna, Allahabad	
January February	16 21	Pre- Boards 8	& Board Examination	

		GRADE 12 -SPLIT	T UP SYLLABUS-(2025-2026)	
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Month	No. Of Teaching Days	Chapter's Name	Topic	Activities/ practical
April	22	Chapter - 1 = The Rajasthan school of painting	Introduction: rajasthan, melwa, marwad, mewad, bundi, kota, bikaner,kishangad, jodhpur	Lining Work, Sketching work
		The Rajasthani School of Miniature Painting	General introduction about Bhagavat puran, Shiv puran and mythological myth. Paintings: Maru Ragini, Chaugan Player,	
			Krishna swings and Radha in sad mood, Bani Thani, Rama meets members of his famiy at chitratuk (16th Century A.D. to 19th Century	
			A.D.) A brief introduction to Indian Miniature Schools: Western- Indian, Pala,	
			Rajasthani and Pahari, Mughal and Deccan, Central India	
May	2			vacation homework ; Tint and Shade
June	18	Pahari School of Miniature Painting	Title Painter	Live ; Sketching work
			Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor	
July	20	_		Folk art, Madhubani art
August	22	The Mughal School of Miniature Painting	Falcon on a Bird-Rest Ustad Mansoor	Still Life, Object Drawing
			Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni	
September	11	The Deccan School:		Nature, Landscapes
October	14	The Bengal School of Painting and the Modern trends in Indian Art	(About the beginning to mid of the 20th Century), contribution of Indian artists	Body part,
		itulus iii iiulan Att	towards freedom movement, Revival of Indian Art, Indian National Flag Appreciation of art works from your syllabus based on their: 1. Origin and Development 2. Main features 3. Characteristics	
			4. Aesthetic parameters 5. Symbolic representation in artworks. 6. Competency based identification of style & technique 7. Understanding of emotions and moral values 8. Respect for life.	
November	15	A National Flag of India :B The Bengal School of		
		Painting	significance of its forms and the colours. Contribution of Indian artists in the struggle for National Freedom Movement. B The Bengal School of Painting Title Painter Journey's End Abanindranath Tagore Shiv and Sati Nandlal Bose Radhika M.A.R. Chughtai Meghdoot Ram Gopal Vijaivargiya	
December	25	The Modern Trends in Indian Art	C The Modern Trends in Indian Art Appreciation of the following contemporary	

			(Modern) Indian Art i. i. Paintings: Rama Vanquishing the Pride of the Ocean Raja Ravi Varma Title Painter Krishna Lifting Mount Govardhan Miskin Falcon on a Bird-Rest Ustad Mansoor Kabir and Raidas Ustad Faquirullah Khan Marriage Procession of Dara Shukoh Haji Madni 14 Mother and child Jamini Roy Haldi Grinders Amrita Sher Gill Mother Teresa M.F. Hussain ii. ii. Graphic - prints: Children Sonnath Hore Devi Jyoti Bhatt Of Walls Anupam Sud	
January	13	Pre- Boards & Board Examination		