

**PHYSICS LECTURE PLAN (PART A) – JEE**

Part A			Week
Chapter-13A: Electrostatics	Class-1	Charge and its properties, Methods of charging, Coulomb's Law, Force due to multiple charges	2 April – 7 April
	Class-2	Problems on Coulomb's Law, SHM problems involving charged particles, Electric field introduction	
	Class-3	Motion of charged particle in external electric field, Electric dipole, Torque and potential energy of dipole in external field	
	Class-4	Electric field due to point charge, system of charges, dipole, Field due to straight and circular line charge, Properties of electric field lines	9 April – 14 April
	Class-5	Electric flux, Gauss law, Use of gauss law to find field due to point charge, infinite line charge, infinite sheet, spherical shell, uniform solid sphere	
	Class-6	Electric potential introduction, Potential due to point charge, system of charges, dipole, Field-potential relation, Equipotential surface, Potential due to straight & circular line charge, Infinite sheet	
	Class-7	Potential due to Spherical shell and Solid sphere, Electrostatic potential energy, Problems on conservation of energy	16 April – 21 April
	Class-8	Conductors: Properties under electrostatic condition, Earthing of conductor, Connecting two isolated conducting spheres, Charge distribution on concentric conducting shells and system of parallel plates	
	Class-9	Problem solving/doubts from module & workbook	
Chapter-14A: DC Circuits	Class-1	Current basics, Ohm's law, Drift velocity, Mobility, Limitation of Ohm' Law	23 April – 28 April
	Class-2	Temperature dependence of resistivity & resistance, Combination of Resistors	30 April – 5 May
	Class-3	Electric power consumed by resistor & bulb, EMF, internal resistance & power of cell, Grouping of cells	
	Class-4	Kirchhoff's current & voltage laws	
	Class-5	Wheatstone bridge, Meter bridge, Ammeter, Voltmeter, Galvanometer, Conversion of Galvanometer to Ammeter and Voltmeter	
	Class-6	Problem solving/doubts from module & workbook	
Chapter-15A: Capacitors	Class-1	Capacitor basics, Energy stored in capacitor, Parallel plate capacitor, Combination of capacitors	7 May – 12 May
	Class-2	Connection of two capacitors, Dielectrics & polarisation, Capacitor with dielectric	14 May – 19 May
	Class-3	Application of Kirchhoff's laws in capacitors, Charging & discharging of capacitors	
	Class-4	Problem solving/doubts from module & workbook	

## Vidyamandir Classes

<b>Chapter-16A: Magnetism</b>	<b>Class-1</b>	Biot-Savart's law, field due to straight wire, field due to circular loop, field due to combined straight and circular wires	21 May – 26 May
	<b>Class-2</b>	Ampere's circuital law and its application to find magnetic field due to long straight wire, current carrying solid and hollow cylinder, solenoid	
	<b>Class-3</b>	Magnetic force on moving charge, Lorentz force, Circular motion of a charged particle in uniform magnetic field	
	<b>Class-4</b>	Helical motion of a charged particle in uniform magnetic field, Magnetic force on current element, straight current-carrying wire, force between two current carrying wires	28 May– 2 June
	<b>Class-5</b>	Current loop as a magnetic dipole, dipole in a uniform magnetic field, Moving coil galvanometer	
	<b>Class-6</b>	Bar magnet, Gauss' law in magnetism, magnetic properties of matter	4 June – 9 June
	<b>Class-7</b>	Problem Solving/doubts from module & workbook	
<b>Chapter-17A: Electromagnetic Induction</b>	<b>Class-1</b>	Magnetic Flux, Faraday's Law, Lenz's Law, Calculation of induced current/charge flow: Varying B, Varying angle, Varying area	4 June – 9 June
	<b>Class-2</b>	Motional EMF, Problems on motional EMF, EMF due to rotation	11 June – 16 June
	<b>Class-3</b>	Mutual inductance, Self inductance, Potential drop across an inductor, Energy stored in an Inductor	
	<b>Class-4</b>	RL circuit: growth & decay of current with time, Inductor in series and parallel	
	<b>Class-5</b>	LC oscillations, AC Generator	18 June-23 June
<b>Chapter-18A: AC Circuits &amp; EM Waves</b>	<b>Class-1</b>	Basics of AC, Average & rms value, Purely resistive, purely capacitive & purely inductive circuit: phase difference and reactance	18 June-23 June
	<b>Class-2</b>	Series combination of RC, RL, and LCR circuits using Phasor Diagrams: impedance, phase factor & power factor	25 June-30 June
	<b>Class-3</b>	Resonance in series LCR Circuit, Transformers	
	<b>Class-4</b>	Displacement current, Ampere Maxwell Law, Induced electric field, Maxwell's equations, Introduction to EM wave and its equation	2 July-7 July
	<b>Class-5</b>	Energy and Intensity of EM waves, Momentum and radiation pressure, EM Waves spectrum: Production, Detection & Application	

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<b>Chapter-19A: Ray Optics</b>	<b>Class-1</b>	Laws of reflection, Image formation by plane mirror, Field of view	9 July-14 July
	<b>Class-2</b>	Image formation by spherical mirror	
	<b>Class-3</b>	Laws of refraction, Refraction by glass slab, Total internal reflection	16 July-21 July
	<b>Class-4</b>	Refraction by prism, Minimum & maximum angle of deviation, TIR in prism	
	<b>Class-5</b>	Image formation by refraction at plane surface (apparent depth), glass slab (shift produced), Image formation by refraction at spherical surface	
	<b>Class-6</b>	Lens makers formula, types of Lens, Image formation by Lens, combination of lens	
	<b>Class-7</b>	Simple & compound microscope	23 July-28 July
	<b>Class-8</b>	Astronomical telescope, Problem Solving/doubts from module & workbook	
<b>Chapter-20A: Wave Optics</b>	<b>Class-1</b>	Wavefront, Huygen's Principle, Laws of reflection and refraction using Huygen's principle, Introduction to Interference: coherent & incoherent source, phase difference & path difference, resultant amplitude & intensity, constructive & destructive interference	30 July-4 August
	<b>Class-2</b>	Young's Double Slit Experiment (YDSE): setup, fringe width, Intensity variation on screen	
	<b>Class-3</b>	Thin glass slab covering slit (shift in fringe pattern), no. of maxims and minims, Young's Double Hole Exp.	6 August - 11 August
	<b>Class-4</b>	Diffraction due to a single slit, width of central maxima & secondary maxima, Polarisation, Brewster's law	
<b>Chapter-21A: Modern Physics</b>	<b>Class-1</b>	Photoelectric effect: basics, graphs, Einstein's equation	13 August - 18 August
	<b>Class-2</b>	Problems on photoelectric effect, Radiation pressure, Matter Wave	
	<b>Class-3</b>	Alpha scattering experiment, Rutherford model, Bohr Model, Atomic Line Spectrum	
	<b>Class-4</b>	Nucleus: radius, density, Mass defect, Nuclear stability, Binding energy, Nuclear forces, Nuclear reactions: conservation of nucleons, mass defect, Q-value	20 August - 25 August
	<b>Class-5</b>	Nuclear fission & fusion, Radioactive decay: alpha, beta, gamma decay, electron capture	
<b>Chapter-22A: Errors &amp; Experiments</b>	<b>Class-1</b>	Error analysis, Combination of errors, Vernier Calliper	27 Aug. – 1 Sept.
	<b>Class-2</b>	Screw Gauge, Determination of g using simple pendulum	
	<b>Class-3</b>	Young's modulus by Searle's method, Specific heat of a liquid using calorimeter, focal length of a concave mirror and a convex lens using u-v method, Speed of sound using resonance column, Verification of Ohm's law using voltmeter and ammeter, specific resistance of the material of a wire using meter bridge and post office box	3 Sep. – 8 Sept.

## Vidyamandir Classes

<b>Chapter-23A: Semiconductors</b>	<b>Class-1</b>	Introduction, Band Theory of Conduction, Types of Semiconductors	
	<b>Class-2</b>	P-N Junction diode, I-V Characteristics in Forward and Reverse bias, Diode as a rectifier	
	<b>Class-3</b>	I-V Characteristics of LED, Photo diode, Solar Cell and Zener Diode, Zener Diode as a voltage regulator	10 Sept. - 16 Sept.
	<b>Class-4</b>	Logic Gates (OR, AND, NOT, NAND and NOR)	

**CHEMISTRY LECTURE PLAN (PART - A) - JEE**

**Module - 4A | Liquid Solutions**

<b>Class 1</b>	Types of solutions and examples, expressing concentrations of solutions, Solubility of solid, liquid and gas in liquid, Henry's law, values of Henry's law constant for gases, Application of Henry's law, Effect of temperature on solubility	2 to 8 April
<b>Class 2</b>	Vapour pressure of pure liquids, factors affecting vapour pressure (nature of liquid, effect of intermolecular forces, temperature), Boiling point of liquid (normal and standard boiling point), Trouton's rule	
<b>Class 3</b>	Vapour pressure of solution- Raoult's law- liquid in liquid, solid in liquid, Vapour pressure composition diagram, composition of liquid phase and vapour phase, Raoult's law as a special case of Henry's law, Ideal and Non ideal solutions,	
<b>Class 4</b>	Azeotropes, Colligative properties, and determination of molecular mass, Vant Hoff factor and Abnormal molar masses of solute	9 to 15 April
<b>Class 5</b>	Problem solving and doubts	

**Module - 4A | Chemical Kinetics**

<b>Class 1</b>	Feasibility of reaction, Extent of reaction, Speed of reaction, Rate of a chemical reaction, Types of rates of reactions, Units of rate of reactions, Rate of consumption of reactants, Rate of production of products, Rate laws, Dependence of rate on concentration, Order of reaction, Rate constant, unit of rate constant	9 to 15 April
<b>Class 2</b>	Initial rate of reaction and order of reaction, Elementary reaction and complex reactions, Rate determining step, order of elementary and complex reactions	16 to 22 April
<b>Class 3</b>	Integrated rate Equations for Zero order reactions -Integrated rate law, conc. vs time graph, half-life, relation between half-life and concentration, methods for order determination for zero order reaction, examples of zero order reactions	
<b>Class 4</b>	Integrated rate Equation for First order reactions-Integrated rate law, effect of stoichiometric coefficient on integrated rate expression, conc. vs time graph, half-life, relation between half-life and time taken for 75%, 99.9% etc. completion of reaction, relation between half-life and initial concentration of reactants, degree of dissociation of first order reaction, Examples of first order reactions	
<b>Class 5</b>	Study of kinetics of typical first order gas phase reaction, Natural and artificial radioactive decay, pseudo first order reaction- hydrolysis of ester and inversion of cane sugar, Study the effect of conc. and temperature variation on the rate of reaction between sodium thiosulphate and HCl, study of effect of conc. on rate of reaction of iodide ions with H <sub>2</sub> O <sub>2</sub> at room temperature, study of rate of reaction between KIO <sub>3</sub> and Na <sub>2</sub> SO <sub>3</sub> .	23 to 29 April
<b>Class 6</b>	Temperature dependence of the rate of reaction- temperature coefficient, Arrhenius equation, frequency factor, activated complex, activation energy, method for determination of activation energy, relation between activation energy and enthalpy of reaction, energy, and path of reaction diagram	
<b>Class 7</b>	Effect of catalyst, types of catalysis, effect of catalyst on Gibb's energy, Equilibrium state and equilibrium constant, Collision theory of chemical reactions-Collision frequency, steric factor, drawbacks of collision theory	1 to 7 May

**Module - 4A | Electrochemistry**

<b>Class 1</b>	Electrochemical Cell(introduction), Half-cell, Types of half-cell, Daniel Cell (LHE/RHE/Salt Bridge/Cell representation), Galvanic cell, measuring electrode potential using SHE, EMF of cell	1 to 7 May
<b>Class 2</b>	Electrochemical Cell and Gibb's energy of cell reaction, Nernst Equation	
<b>Class 3</b>	Equilibrium Constant of cell reaction, Concentration cell, pH and half-cell potential of hydrogen electrodes	9 to 15 May
<b>Class 4</b>	Conductance of electrolytic solution (Conductance, Conductivity, cell constant, resistance), Measurement of conductivity of ionic solutions-Molar and equivalent conductivity	
<b>Class 5</b>	Variation of conductivity and molar conductivity with concentration, for strong and weak electrolyte, limiting molar conductivity, Kohlrausch law	
<b>Class 6</b>	Application of Kohlrausch law- Molarconductivity of weak electrolyte, degree of dissociation of weak electrolyte, dissociation constant of weak electrolyte, solubility	16 to 22 May
<b>Class 7</b>	Electrolytic cell, Electrolysis, Faraday's law of electrolysis, product of electrolysis, of Molten NaCl, aq. NaCl, Conc. NaCl(overpotential), dil. H <sub>2</sub> SO <sub>4</sub> , Conc. H <sub>2</sub> SO <sub>4</sub>	
<b>Class 8</b>	Product of electrolysis of CuSO <sub>4</sub> , Na <sub>2</sub> SO <sub>4</sub> , CuSO <sub>4</sub> (using copper electrode), AgNO <sub>3</sub> , AgNO <sub>3</sub> (using silver electrode), NiSO <sub>4</sub> , Batteries-Primary and secondary batteries-Lead storage battery, Fuel cell, Corrosion	23 to 29 May

**Module - 5A | Organic Concepts I**

<b>Class 1</b>	Fundamental concepts in organic reaction mechanism, substrate, reagent (Electrophile & Nucleophile), Intermediate, product and by product, Fission of a covalent bond, Electron movement in organic reactions, Electron displacement effect in covalent bond, Resonance structure and resonance effect	23 to 29 May
<b>Class 2</b>	Electrophilic Addition Reactions, Free Radical Addition Reactions,	
<b>Class 3</b>	Free Radical Substitution Reactions-Halogenation of Alkane, cycloalkane, allylic Halogenation, and Benzylic halogenation	31 May to 6 June
<b>Class 4</b>	Electrophilic Substitution Reactions	
<b>Class 5</b>	Dehydration of alcohols (E1 Mechanism)	
<b>Class 6</b>	Dehydrohalogenation of alkyl halides (E2 or 1, 2-Elimination)-Mechanism, Kinetics, Reactivity order, Stereochemistry, Regiochemistry, Saytzeff and Non- Saytzeff product	8 June to 14 June

**Module - 5A | Halogen Containing Organic Compound**

<b>Class 1</b>	Introduction, classification of organic halides, Nomenclature, Nature of C-X bonds, Dipole Moments, Methods of preparation of alkyl halides (refer module and NCERT)	8 June to 14 June
<b>Class 2</b>	Physical properties of organic Halides, Chemical Properties of haloalkane, Nucleophilic substitution reactions (refer module and NCERT)	
<b>Class 3</b>	Dehydrohalogenation, Preparation of aryl halide (refer module and NCERT), physical properties of aryl halides, Chemical properties of aryl halides (refer module)	15 June to 21 June

Class 4	Nucleophilic substitution reactions of aryl halides-Reaction conditions, Reactivity order, Mechanism, Effect of substituent	
Class 5	Reaction with metals-Li, Na, Mg, Preparation of Grignard reagent, Reaction of Grignard reagent (refer module)	22 June to 28 June
Class 6	Polyhalogen compounds-uses in industry and in agriculture (refer module and NCERT)	
<b>Module - 5A   Organic Concepts II</b>		
Class 1	Aliphatic Nucleophilic substitution reactions (refer module)	30 June to 6 July
Class 2	Aliphatic Nucleophilic substitution reactions (refer module)	
Class 3	Elimination reactions-Dehydrohalogenation of halides and acid catalysed dehydration of Alcohols, Comparison of conditions of substitution and elimination reactions	
Class 4	Aromatic Nucleophilic substitution reactions	8 July to 14 July
Class 5	Nucleophilic addition reaction, Nucleophilic addition-elimination reaction (Using Grignard Reagent)	
<b>Module - 5A   Oxygen Containing Organic Compound I</b>		
Class 1	Classification, Nomenclature, Structure of functional group, Methods of preparation of alcohol	8 July to 14 July
Class 2	Physical properties of alcohols, Functional group test of alcohols, acidity of alcohols, chemical properties of alcohols (refer module)	15 July to 21 July
Class 3	Preparation of phenols, physical properties of phenol, functional group test of phenol, acidity of phenol	
Class 4	Chemical properties of phenols, commercially important alcohols	22 July to 28 July
Class 5	Preparation of ethers, physical properties of ethers, chemical properties of ethers-cleavage reaction, electrophilic substitution reaction of aromatic ethers	
<b>Module - 5A   Oxygen Containing Organic Compound II</b>		
Class 1	Introduction of carbonyl compounds, Nomenclature- Common and IUPAC, structure of carbonyl group, keto enol isomerism,	22 July to 28 July
Class 2	Preparation of aldehyde and ketone-By oxidation of alcohol, By dehydrogenation of alcohols, from hydrocarbons (alkene and alkyne), from dihalides, from Grignard reagent	30 July to 5 August
Class 3	Preparation of aldehyde and ketone-from Rosenmund reaction, from Stephen reduction, from reduction of ester, from methyl benzene, from Gatterman-koch reaction, from F. C. reaction	
Class 4	Physical properties of aldehyde and ketone, Chemical reactivity of aldehyde and ketone for nucleophilic addition reaction, mechanism, and stereochemistry of nucleophilic addition reaction	
Class 5	Nucleophilic addition reactions-Addition of HCN, water, Grignard reagent, NaHSO <sub>3</sub> , alcohols, diols, NH <sub>3</sub> and ammonia derivatives	7 August to 13 August
Class 6	Acidity of alpha H atom, H of active methylene group, Aldol reaction and aldol condensation (intermolecular, intramolecular, and cross aldol condensation), Cannizzaro reaction	
Class 7	Reduction reaction of aldehyde and ketones, Oxidation of aldehydes and ketones	14 August to 22 August
Class 8	Perkin reaction, Benzoin condensation, Beckmann rearrangement, Electrophilic Substitution reactions of aromatic aldehyde and aromatic ketone, Uses of aldehydes and ketones, Problems solving and doubts	
<b>Module - 5A   Oxygen Containing Organic Compound III</b>		
Class 1	Introduction, Nomenclature (Common and IUPAC), structure of carboxyl group, Methods of preparation of carboxylic acids-from alkene, alkyne, alkyl halide, alcohol, aldehyde	14 August to 22 August
Class 2	Preparation of carboxylic acid- from alkyl benzene, nitrile, amides, Grignard reagent, acid halide, anhydride, ester, Physical properties, Functional group test	23 August to 29 August
Class 3	Acidity of carboxylic acids, Chemical properties of Carboxylic acids, - formation of anhydride, esterification, reaction with PCl <sub>3</sub> , PCl <sub>5</sub> and SOCl <sub>2</sub> , reaction with ammonia	
Class 4	Reduction of carboxylic acid, Decarboxylation, HVZ reaction, Electrophilic substitution reaction of aromatic acid, uses of carboxylic acid	
Class 5	Carboxylic acid derivatives- type, structure, naming. Preparation, Nucleophilic acyl substitution reaction of acid derivatives, Hydrolysis of ester, Claisen ester condensation, Hoffman bromamide reaction	31 August to 6 September

**MATHEMATICS LECTURE PLAN (PART – A) – JEE**  
**MODULE – 4A**

Part A			Week
Chapter-14: Functions	Class-1	Cartesian product of two sets, Types of Relations	2 April – 7 April
	Class-2	Domain of Functions	
	Class-3	Standard Functions, Log, [ ], { }, sgn(.) properties	
	Class-4	Even-Odd Function, Periodic Functions	9 April – 14 April
	Class-5	Transformation – 1, $x \rightarrow x \pm a, y \rightarrow y \pm a,$ $x \rightarrow -x, y \rightarrow -y, x \rightarrow  x , y \rightarrow  y , f(x) \rightarrow  f(x) $	
	Class-6	Transformation – 2, $f(x) \rightarrow [f(x)], f(x) \rightarrow \{f(x)\}$	
	Class-7	Range of Function	16 April – 21 April
	Class-8	Mixed Problems	
Chapter-15: Inverse Trigonometric Functions	Class-1	Basic ITF + Graphs + Basic Properties of Graphs	23 April – 28 April
	Class-2	$f(f^{-1}(x))$ and $f^{-1}(f(x))$	
	Class-3	$\tan^{-1} x \pm \tan^{-1} y$ and ITF Series	
	Class-4	Problem Solving	
Chapter-16: Differential Calculus - I	Class-1	Introduction of Limits, LHL, RHL, Indeterminate forms	30 April – 5 May
	Class-2	Standard Templates of Limits : Algebraic, Trigonometry, Inverse Trigonometry	
	Class-3	Logarithmic Limit, Exponential Limit and $(1)^\infty$ form	7 May – 12 May
	Class-4	Continuity of Functions, Types of Discontinuities	
Chapter-16: Differential Calculus - I	Class-5	Differentiability definition, LHD, RHD	14 May – 19 May
	Class-6	Differentiation First Principle, Rules (Products, Quotient, Chain)	
	Class-7	Logarithmic, Parametric Differentiation, Implicit	
	Class-8	LH Rule, Series Expansion and Finding an Unknown Variable	21 May – 26 May
	Class-9	Problem Solving	
Chapter-17: Differential Calculus - II	Class-1	Approximation and Rate Measurement and Slope of Tangent and Normal	28 May – 2 June
	Class-2	Equation of Tangent of Normal	
	Class-3	LMVT and Rolle's Theorem	
Chapter-17: Differential Calculus - II	Class-4	Increasing and Decreasing Functions	4 June – 9 June
	Class-5	Local Maxima and Minima	
	Class-6	Word Problems based on Local Maxima and Minima	
	Class-7	Types of Function + Problem Solving	11 June – 16 June

## Vidyamandir Classes

### MODULE - 5A

<b>Chapter-18: Integral Calculus - 1</b>	<b>Class-1</b>	Antiderivative Formula based	11 June – 16 June
	<b>Class-2</b>	Methods of Substitution	
	<b>Class-3</b>	Problem Solving	18 June-23 June
	<b>Class-4</b>	Integral of the form $\sqrt{Q}, L\sqrt{Q}, \frac{1}{Q}, \frac{L}{Q}, \frac{L}{\sqrt{Q}}, \frac{L}{p(x)}$	

<b>Chapter-18: Integral Calculus - 1</b>	<b>Class-5</b>	Integration of the form $\frac{1}{a \sin^2 x + b \cos^2 x + c \sin x \cos x + d}$ , $\frac{1}{a \sin x + b \cos x + c}$	25 June-30 June
	<b>Class-6</b>	Integration by parts, Integration of the form $\int e^x (f(x) + f'(x)) dx$	
	<b>Class-7</b>	Integration of irrational functions, Partial fractions	
	<b>Class-8</b>	Reduction Method, Problem Solving	2 July-7 July
<b>Chapter-19: Integral Calculus - 2</b>	<b>Class-1</b>	Basic Properties of definite integral	
	<b>Class-2</b>	Basic Properties of definite integral-2	
<b>Class-3</b>	Problem Solving	9 July-14 July	
<b>Class-4</b>	Periodic Properties, Leibnitz Rule		

<b>Chapter-19: Integral Calculus - 2</b>	<b>Class-5</b>	Integral as Limit of Sum and vice versa	16 July-21 July
	<b>Class-6</b>	Area under the Curve	
	<b>Class-7</b>	Estimation of Integral and Inequalities	
	<b>Class-8</b>	Problem Solving	23 July-28 July
<b>Chapter-20: Differential Equation</b>	<b>Class-1</b>	Order, Degree and formation of Differential Equation	
	<b>Class-2</b>	Variable Separable, Homogeneous & their Reducible form	
<b>Class-3</b>	Linear Differential Equation and its Reducible form	30 July-4 August	
<b>Class-4</b>	Application of DE, Word Problem, Orthogonal trajectory		

<b>Chapter-20: Differential Equation</b>	<b>Class-5</b>	Exact DE, Problem Solving	6 August - 11 August
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### MODULE - 6A

<b>Chapter-21: Vectors</b>	<b>Class-1</b>	Basics of Vectors, Definition, Addition, Collinearity, Co-planarity	6 August - 11 August
	<b>Class-2</b>	Dot Product, Cross Product	
	<b>Class-3</b>	STP (Volume of Tetrahedron), VTP	13 August - 18 August
	<b>Class-4</b>	Problem Solving	
	<b>Class-5</b>	Reciprocal system, Vector Equations	
	<b>Class-6</b>	Problem Solving	20 August - 25 August
<b>Chapter-22: 3-D Geometry</b>	<b>Class-1</b>	Basic formula, Direction cosines, Direction Ratios	



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<b>Chapter-22: 3-D Geometry</b>	<b>Class-2</b>	Lines (Different forms), Shortest Distance between skew lines	27 Aug. – 1 Sept.
	<b>Class-3</b>	Planes and their forms	
	<b>Class-4</b>	Planes and Lines	
	<b>Class-5</b>	Problem Solving	3 Sep. – 8 Sept.
	<b>Class-6</b>	Problem Solving	
<b>Chapter-23: Probability</b>	<b>Class-1</b>	Definition of Probability, Mutually exclusive and Exhaustive events	10 Sept. - 15 Sept.
	<b>Class-2</b>	Problem Solving on P & C based	
	<b>Class-3</b>	Simple Events, Compounds Events, Set Theory based problems	
<b>Chapter-23: Probability</b>	<b>Class-4</b>	Conditional probability, Definition of Independent Events	17 Sept. - 22 Sept.
	<b>Class-5</b>	Problem Solving	
	<b>Class-6</b>	Law of total Probability, Bayes Theorem	
	<b>Class-7</b>	Problem Solving	24 Sept. - 29 Sept.
	<b>Class-8</b>	Binomial Distribution, Mean, Variance	
<b>Chapter-24: Matrices and Determinants</b>	<b>Class-1</b>	Definition and types of Matrices	1 Oct. - 6 Oct.
	<b>Class-2</b>	Addition and Multiplication of Matrices, their properties	
	<b>Class-3</b>	Adjoint and its properties, Inverse of a Matrix and Its Properties	
<b>Chapter-24: Matrices and Determinants</b>	<b>Class-4</b>	Solving of Simultaneous Equations	8 Oct. - 13 Oct.
	<b>Class-5</b>	Problem Solving	
	<b>Class-6</b>	Properties of Determinant	15 Oct. - 20 Oct.
	<b>Class-7</b>	Problem Solving	