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**Time Saver Course
for JEE Main & Advanced
XII Appearing & Droppers
Lecture Schedule**

JEE | NEET | CBSE | Foundation (www.etoosindia.com)

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Time Saver Course for JEE Main Lecture Schedule

Date	Subject	Chapter Name	Lecture No.	Lecture Name
13-Sep-21	Organic Chemistry	Classification and Nomenclature of Organic Compounds	1	Classification of Organic Compounds, Functional groups, Hybridisation Of Carbon and Bond Line Notation
	Physical Chemistry	Mole concept	1	Basic Mole and Calculation, Average Atomic and Molecular Mass, Percentage Composition
	Maths	Basic Maths & Logarithm	1	Number System, Prime numbers, Divisibility Rule, Polynomial, Exponential Function and Logarithmic Functions
	Physics	Unit and Dimension	1	Unit and Dimension
14-Sep-21	Organic Chemistry	Classification and Nomenclature of Organic Compounds	2	Classification of Carbon and Hydrogen, Classification and Identification of Compounds on the basis of Functional Group
	Physical Chemistry	Mole concept	2	Empirical and Molecular Formula, laws of Chemical Combination, Stoichiometry and Limiting Reagent
	Maths	Basic Maths & Logarithm	2	Rational Inequalities and Illustration, Based on Logarithm
	Physics	Vector	1	Concept of Vectors
15-Sep-21	Organic Chemistry	Classification and Nomenclature of Organic Compounds	3	Degree of Unsaturation (DU or IHD), Nomenclature of Alkanes
	Physical Chemistry	Mole concept	3	Percent Yield, POAC, Series Reactions, Concentration Terms
	Maths	Quadratic Equation	1	Trigonometric Identities and Introduction of Quadratic Equation and Identity, Factor Theorem and Remainder Theorem
	Physics	Vector	2	Miscellaneous Problems on Vectors
16-Sep-21	Inorganic Chemistry	Periodic Table and Basic	1	Electronic Configuration, Basic Nomenclature, Shielding Effect and Effective Nuclear Charge, Atomic Radius
	Maths	Quadratic Equation	2	Symmetric Functions of Roots and Nature of Roots with Illustration
	Maths	Quadratic Equation	3	Graph of Quadratic and Range of Quadratic with Illustration
	Physics	Kinematics	1	General Equations of Motion
17-Sep-21	Inorganic Chemistry	Periodic Table and Basic	2	"Ionisation Energy, Electron Affinity, Electronegativity, Hydration Energy"
	Maths	Quadratic Equation	4	Illustration Based upon Graph and Theory of Common roots Theory of Equations
	Maths	Quadratic Equation	5	Illustration Based on Common Roots and Range
	Physics	Kinematics	2	Up To Uniformly Accelerated Motion Along Straight Line

18-Sep-21	Inorganic Chemistry	Chemical bonding	1	"Introduction,Lewis Octet Rule,Lewis dot Structures, Lewis Acid Base Theory,Concept of Overlapping"
	Maths	Quadratic Equation	6	Illustration Based upon Theory of Equations and Range and Theory of Location of Roots
	Physics	Kinematics	3	Motion Under Gravity Along Straight Line
	Physics	Kinematics	4	Motion Graphs
20-Sep-21	Organic Chemistry	Classification and Nomenclature of Organic Compounds	4	Nomenclature Of Cyclo, Bicyclo, Spiro, alkenes and alkynes
	Physical Chemistry	Mole concept	4	"Volume Strength of H ₂ O ₂ Molarity of Mixing and Dilution, Methods of Atomic and Molecular Mass Determination"
	Maths	Quadratic Equation	7	Location of Roots
	Physics	Kinematics	5	Projectile Motion in 2D,Equation of Trajectory of Projectile
21-Sep-21	Physical Chemistry	Solid State	1	Introduction,Basic definition,Unit cell / Bravais lattices
	Organic Chemistry	Classification and Nomenclature of Organic Compounds	5	Nomenclature Of compounds containing Functional Groups (carboxylic acid, cyanide, aldehyde, amide, acid halide, esters anhydrides etc.)
	Maths	Trigonometric Ratios & Identities And Trigonometric Equations	1	Complete Theory and Some Illustrations
	Physics	Kinematics	6	Projectile Motion Completed
22-Sep-21	Physical Chemistry	Solid State	2	Analysis of unit cells and packing in crystals
	Organic Chemistry	Classification and Nomenclature of Organic Compounds	6	Nomenclature of Compounds Containing multiple functional Groups, Nomenclature of Epoxides, Aromatic Compounds
	Maths	Trigonometric Ratios & Identities And Trigonometric Equations	2	Illustration
	Physics	Kinematics	7	Circular Motion kinematics
23-Sep-21	Inorganic Chemistry	Chemical bonding	2	Involvement of d-orbitals in Overlapping,Hybridization and VSEPR,Practice Session -2
	Maths	Trigonometric Ratios & Identities And Trigonometric Equations	3	Series, Conditional Identity and Range
	Maths	Trigonometric Ratios & Identities And Trigonometric Equations	4	Theory of Trigonometry-II and basic illustration
	Physics	Kinematics	8	Relative Motion

24-Sep-21	Inorganic Chemistry	Chemical bonding	3	Calculation of $p\pi - d\pi$ Bonds, Bond Order, Bond Length and Bent Rule, Bond Order and Drago's Rule, Hybridisation in Solid State
	Maths	Trigonometric Ratios & Identities And Trigonometric Equations	5	Illustration of Trigonometric Equations
	Maths	Sequence & Series	1	Arithmetic Progression
	Physics	Kinematics	9	Discussion
25-Sep-21	Inorganic Chemistry	Chemical bonding	4	Structures by Bent Rule, Dipole Moment and Applications, Back Bonding and its Application, Practice Session
	Maths	Sequence & Series	2	Arithmetic Mean And Illustration based upon AP
	Physics	NLM And Friction	1	Newton's Laws of Motion
	Physics	NLM And Friction	2	Up To Spring Force
27-Sep-21	Physical Chemistry	Solid State	3	Radius ratio, structure of ionic crystals
	Organic Chemistry	GOC	1	Inductive effect & its applications
	Maths	Sequence & Series	3	Geometric Progression
	Physics	NLM And Friction	3	Constraints and Its Application
28-Sep-21	Physical Chemistry	Solid State	4	defects in solids and magnetic properties
	Organic Chemistry	GOC	2	Resonance, Condition for resonance and writing R.S
	Maths	Sequence & Series	4	G.M and H.P
	Physics	NLM And Friction	4	Friction-1
29-Sep-21	Physical Chemistry	Solid State	5	Discussion of Practice Session -1
	Organic Chemistry	GOC	3	Aromaticity
	Maths	Sequence & Series	5	AGP and Relation between AM, GM and HM
	Physics	NLM And Friction	5	Friction-2
30-Sep-21	Inorganic Chemistry	Chemical bonding	5	Bridge Bond, MOT and its Application
	Maths	Sequence & Series	6	Illustrations Based upon AM, GM and HM and Theory of Special Sequences & Illustrations Based Upon Special Sequences
	Maths	Determinant	1	Theory of Determinant
	Physics	NLM And Friction	6	Circular Dynamics
1-Oct-21	Inorganic Chemistry	Chemical bonding	6	Intermolecular Forces and their Types, Hydrogen Bonding and its Types
	Maths	Determinant	2	Practice Session-1
	Maths	Determinant	3	Practice Session-2 and Theory of Solution of System of Equations
	Physics	NLM And Friction	7	Discussion

4-Oct-21	Physical Chemistry	Liquid Solution	1	Vapour Pressure and Boiling Point, Raoult's Law, Vapour Pressure of Liquid Mixture
	Organic Chemistry	GOC	4	Mesomeric effect
	Maths	Function	1	Modulus Function
	Physics	Work Energy and Power	1	Work Done by a Force
5-Oct-21	Physical Chemistry	Liquid Solution	2	Ideal and non ideal solutions, Azeotropes, Colligative properties, relative lowering in vapour pressure , practice session-2
	Organic Chemistry	GOC	5	Comparison of resonance energy,
	Maths	Function	2	Greatest Integer, Fractional Part and Signum Function
	Physics	Work Energy and Power	2	Power
6-Oct-21	Physical Chemistry	Liquid Solution	3	Elevation in boiling point , Van't hoff factor , depression in freezing point and Osmotic pressure
	Organic Chemistry	GOC	6	Bond length bond energy & rotation energy barrier.
	Maths	Function	3	Definition of Function, Domain, Range and Theory of Identical Functions
	Physics	Work Energy and Power	3	Potential Energy Mechanical Energy
7-Oct-21	Inorganic Chemistry	Chemical bonding	7	"Ionic Bond,Polarisation and Fajan's Rule, Applications of Polarisation,Solubility and Solubility Order"
	Maths	Function	4	Illustration Based on Domain and Range
	Maths	Function	5	Illustration Based upon Range and Identical Functions and Even/Odd Functions
	Physics	Work Energy and Power	4	Discussion
8-Oct-21	Inorganic Chemistry	p-Block	1	Introduction,13th group Family, Boron and its Compounds
	Maths	Function	6	Periodic Function
	Maths	Function	7	Theory & Illustration based on Composite Functions
	Physics	COM	1	Location of CM
9-Oct-21	Inorganic Chemistry	p-Block	2	Carbon Family, Carbon and its Compounds, Allenes and Carbides
	Maths	Function	8	Theory with Illustrations of Classification of Function & Inverse of a Function and Illustration Based upon Function Rules
	Physics	COM	2	Motion of CM, COLM
	Physics	COM	3	CM Frame and Impulse Concepts
11-Oct-21	Physical Chemistry	Liquid Solution	4	Osmotic Pressure, Solution of Gases in Liquids and Henry's Law
	Organic Chemistry	GOC	7	Stability of intermediate
	Maths	Inverse Trigonometric Functions	1	Definition Domain ,Range and Graph of ITF With Illustrations
	Physics	COM	4	Collision, Variable Mass System

12-Oct-21	Physical Chemistry	Redox Reaction	1	"Oxidation Number and it's Calculation, Balancing of Redox Reactions,n-factor and its Calculation"
	Organic Chemistry	GOC	8	Hyperconjugation, Applications of hyperconjugation, HOH,HOC
	Maths	Inverse Trigonometric Functions	2	Properties of ITF
	Physics	COM	5	Discussion
13-Oct-21	Organic Chemistry	GOC	9	acid and base strength, Base strength, S.I.P., S.I.R. effect, ortho effect
	Physical Chemistry	Redox Reaction	2	"Equivalent Concept and Law of Equivalence, Acid-Base Titrations,Redox Titrations,Practice Session-2 "
	Maths	Inverse Trigonometric Functions	3	Illusion Based upon Properties of ITF
	Physics	Rotation Dynamics	1	Moment of Inertia
14-Oct-21	Inorganic Chemistry	p-Block	3	Compound if Silicon, Silicates and Silicones
	Maths	LIMIT	1	Theory of Concept of Limits L.H.L and R.V.L Existence of Limits
	Maths	LIMIT	2	Indeterminate Forms and Evaluation of Limits (0/0 Form)
	Physics	Rotation Dynamics	2	Torque And Fixed Axis Rotation part-1
15-Oct-21	Inorganic Chemistry	p-Block	4	Nitrogen family , chemical properties , Nitrogen, Ammonia, Nitrous Acid , Nitric Acid
	Maths	LIMIT	3	Limit at infinity
	Maths	LIMIT	4	Limits at Infinity and Theory of Trigonometric Limits
	Physics	Rotation Dynamics	3	Torque And Fixed Axis Rotation part-2
16-Oct-21	Inorganic Chemistry	p-Block	5	Oxides of nitrogen, Phosphorus & its allotropes, Phosphine, Oxyacids of Phosphorus
	Maths	LIMIT	5	Illustration Based Upon Trigonometric Limits
	Physics	Rotation Dynamics	4	Angular Momentum and Its Conservation
	Physics	Rotation Dynamics	5	Rolling Motion
18-Oct-21	Physical Chemistry	Chemical Equilibrium	1	"Equilibrium,Equilibrium Constant and writing Equilibrium Constant, Characteristics of Equilibrium Constant,Calculation of Equilibrium Constant"
	Organic Chemistry	Structural isomerism	1	Structural isomerism
	Maths	LIMIT	6	Exponential, Logarithmic Limits and Limits of the form 1 Infinity & Illustrations Based upon Existence of Limits
	Physics	Rotation Dynamics	6	Angular Impulse and Rigid Body Collision
19-Oct-21	Physical Chemistry	Chemical Equilibrium	2	Calculations in Equilibrium,Significance of Equilibrium Constant,Practice Session 2, Simultaneous Equilibrium,Reaction Quotient and Direction of Equilibrium
	Organic Chemistry	Structural isomerism	2	Tautomerism
	Maths	Continuity & Derivability	1	Theory of Continuity
	Physics	Rotation Dynamics	7	Discussion

20-Oct-21	Physical Chemistry	Chemical Equilibrium	3	Le-chatelier's Principle,Physical Equilibrium
	Organic Chemistry	Geometrical isomerism, Conformational Isomerism	1	Geometrical isomerism
	Maths	Continuity & Derivability	2	Theory of Differentiability
	Physics	SHM	1	Kinematics of SHM and Phasor Circle
21-Oct-21	Inorganic Chemistry	p-Block	6	16th Group Elements and Their Compounds , Halogen Family and General Properties
	Maths	Continuity & Derivability	3	Illustration Based upon Continuity and Differentiability
	Maths	Continuity & Derivability	4	Practice Session - 2
	Physics	SHM	2	Linear SHM in Spring Block Systems
22-Oct-21	Inorganic Chemistry	p-Block	7	Chlorine and its properties , Interhalogen compounds and pseudo halogens , Noble gases and their compounds
	Maths	Continuity & Derivability	5	Illustration Based on Graph, Determination of Function using Functional Rules and Practice Session-3
	Maths	Method of Differentiation (MOD)	1	Theory of mod with Basic illustrations
	Physics	SHM	3	Angular SHM and Combination of SHM
23-Oct-21	Inorganic Chemistry	Coordination Compunds	1	Types of Salt (Double and Complex),Classification of Complex Salt (perfect and Imperfect,Homoleptic and heteroleptic, on the Basis of Charge) General Terminologies used in Complex Salt,Classification of Ligands
	Maths	Method of Differentiation (MOD)	2	Practice Session - 1
	Physics	SHM	4	Discussion
	Physics	Elasticity, Thermometry, Calorimetry, & Thermal Expansion	1	Elasticity-1
25-Oct-21	Physical Chemistry	Ionic Equilibrium	1	"Classification of Substance,Arrhenius Theory of Electrolytic Dissociation, Strong and Weak Electrolyte,Ostwald's Dilution Law, Properties of Water,Acid Base Theories"
	Organic Chemistry	Geometrical isomerism, Conformational Isomerism	2	Conformation of Ethane,propane
	Maths	Method of Differentiation (MOD)	3	Differentiation of Implicit Functions and Differential Using Logarithmic
	Physics	Elasticity, Thermometry, Calorimetry, & Thermal Expansion	2	Elasticity-2

26-Oct-21	Organic Chemistry	Geometrical isomerism, Conformational Isomerism	3	Butane (about C ₁ - C ₂ , C ₂ - C ₃)
	Physical Chemistry	Ionic Equilibrium	2	Discussion of Practice Session 1, pH Determination of SA/SB, WA/WB, Mix of SA/SB
	Maths	Method of Differentiation (MOD)	4	Logarithmic Differentiation, Parametric Differentiation and Derivative of a Function w.r.t Other Function
	Physics	Elasticity, Thermometry, Calorimetry, & Thermal Expansion	3	Thermometry and Calorimetry
27-Oct-21	Organic Chemistry	Geometrical isomerism, Conformational Isomerism	4	Conformation of Cyclohexane including G.I.
	Physical Chemistry	Ionic Equilibrium	3	pH Determination of Mix of WA/WB, Mix of SA+WA/SB+WB, Polyprotic Acid/Polyacidic Base
	Maths	Method of Differentiation (MOD)	5	Derivative of Inverse of a Function and Higher Order Derivatives & L'Hopital Rule and 0 [∞] , ∞ [∞] form
	Physics	Elasticity, Thermometry, Calorimetry, & Thermal Expansion	4	Thermal Expansion-1
28-Oct-21	Inorganic Chemistry	Coordination Compounds	2	Chelating Ligand, Ambidentate Ligand, Flexidentate Ligand, 3. On Bonding Pattern (i) Classical Ligand-lp Donor (ii) Non-classical Ligand (lp donor and Acceptor), Synergic Bonding in Metal Carbonyls, Oxidation Number and Effective Atomic Number
	Maths	Indefinite Integration	1	Basics of Indefinite Integration and Some Basic Illustration
	Maths	Indefinite Integration	2	Illustration based upon Integral of Standard Function and Theory of Integration by Substitution
	Physics	Elasticity, Thermometry, Calorimetry, & Thermal Expansion	5	Thermal Expansion-2
29-Oct-21	Inorganic Chemistry	Coordination Compounds	3	"Effective Atomic Number (EAN) Continued, IUPAC Nomenclature of Coordination Compounds"
	Maths	Indefinite Integration	3	Illustration based upon Substitution
	Maths	Indefinite Integration	4	Various Trigonometric integrations
	Physics	Elasticity, Thermometry, Calorimetry, & Thermal Expansion	6	Discussion
30-Oct-21	Inorganic Chemistry	Coordination Compounds	4	Discussion of practise session 1, Werner's coordination theory
	Maths	Indefinite Integration	5	Integration by-Parts
	Physics	KTG and Thermodynamics	1	KTG-1
	Physics	KTG and Thermodynamics	2	1st Law of Thermodynamics-1

8-Nov-21	Physical Chemistry	Ionic Equilibrium	4	Discussion of Practise Session 2, pH Determination of Strong Acid and Strong Base
	Organic Chemistry	Optical Isomerism	1	Symmetry elements (POS, COS, AOS, AAOS), chiral centre, stereo centre (i) Optical activity, PPL, angle of rotation (ii) d & l, numerical on specific angle of rotation
	Maths	Indefinite Integration	6	Classic Integrals and Integration using Partial Fractions
	Physics	KTG and Thermodynamics	3	1st Law of Thermodynamics-2
9-Nov-21	Organic Chemistry	Optical Isomerism	2	Chirality, optically active compounds, single chiral and multiple chiral atom molecules
	Physical Chemistry	Ionic Equilibrium	5	Salt Hydrolysis and Buffer Solution
	Maths	Indefinite Integration	7	Integration using Partial Fraction and Ir-Rational Integrals & Manipulating Integrals
	Physics	KTG and Thermodynamics	4	2nd Law of Thermodynamics
10-Nov-21	Organic Chemistry	Optical Isomerism	3	Enantiomer & their properties, Racemization, Resolution optical purity, % composition, Fischer projection, R.S. configuration (not more than 2 chiral carbon containing acyclic compounds)
	Physical Chemistry	Ionic Equilibrium	6	"Discussion of Practise Session-3, Buffer Action, Buffer Capacity, Titration (1.SA v/s SB, 2.WA v/s SB, 3.WB v/s SA, 4.WA v/s WB)"
	Maths	Definite Integration	1	Basics of Definite Integration
	Physics	KTG and Thermodynamics	5	Discussion
11-Nov-21	Inorganic Chemistry	Coordination Compounds	5	Valence Bond Theory (VBT)
	Maths	Definite Integration	2	Properties of Definite Integration P1 to P5
	Maths	Definite Integration	3	P-6,7,8 (King and Queen)
	Physics	Electrostatics	1	Coulomb's Law
12-Nov-21	Inorganic Chemistry	Coordination Compounds	6	Crystal field theory (CFT)
	Maths	Definite Integration	4	Illustration Based Upon King and Queen Property
	Maths	Definite Integration	5	Jack Property and Newton Leibnitz Theorem
	Physics	Electrostatics	2	Electric Field
13-Nov-21	Inorganic Chemistry	Metallurgy	1	Introduction, Crushing and Grinding, Concentration of Ore(All Methods)
	Maths	Definite Integration	6	Summation of Series (Integration as a Limit of a Sum), Estimation and Reduction Formula
	Physics	Electrostatics	3	Electric Field Problems
	Physics	Electrostatics	4	Electrostatic P.E and Potential

15-Nov-21	Physical Chemistry	Ionic Equilibrium	7	"Theory of Indicators, Solubility-1.In Water 2. In Presence of Common Ion 3. Simultaneous Solubility 4.Ionic Product and Condition of ppt"
	Organic Chemistry	Optical Isomerism	4	D & L -Configuration, Diastereomers & their properties including separation. Examples of 1-chiral, 2-chiral , 3-chiral carbon only. Calculating number of stereoisomers.Interconversion of all projection
	Maths	Tangent & Normal (AOD)	1	Theory of Tangent Normal
	Physics	Electrostatics	5	Electric Potential
16-Nov-21	Organic Chemistry	Optical Isomerism	5	Calculating number of stereoisomers.Interconversion of all projection
	Physical Chemistry	Ionic Equilibrium	8	"Discussion of Practice Session-4, Solubility of Salt when 1.Complex Formation Occurs 2.Hydrolysis Occurs (Through Questions of Session Discussed)"
	Maths	Tangent & Normal (AOD)	2	Practice Section -1
	Physics	Electrostatics	6	Electric Dipole
17-Nov-21	Organic Chemistry	Halogen Derivatives	1	Leaving group E^+ , Nu^- . solvents, Idea of EAS (benzene)
	Physical Chemistry	Thermodynamics	1	"Introduction, System, Surroundings and Types of System, Extensive and Intensive Properties, State and Path Functions, Degrees of Freedom and Heat Capacity, Internal Energy, Heat and Work"
	Maths	Tangent & Normal (AOD)	3	Practice Section -2
	Physics	Electrostatics	7	Gauss Law
18-Nov-21	Inorganic Chemistry	Metallurgy	2	Conversion of ore into oxide(calcination ,Roasting) smelting, ellingham diagram , reduction method
	Maths	Monotonocity (AOD)	1	Theory of Monotonicity
	Maths	Maxima & Minima(AOD)	1	Theory of Maxima and Minima
	Physics	Electrostatics	8	Gauss Law and Conductors
19-Nov-21	Inorganic Chemistry	Metallurgy	3	Purification Method
	Maths	Maxima & Minima(AOD)	2	Practice Session-1
	Maths	Maxima & Minima(AOD)	3	Practice Session-02
	Physics	Electrostatics	9	Discussion
20-Nov-21	Inorganic Chemistry	Metallurgy	4	Individual Metallurgy of all metals
	Maths	Maxima & Minima(AOD)	4	Nature of Roots of Cubic Equation and Minimum Maximum Distance of a Point from a Curve
	Physics	Gravitation	1	Lecture-1
	Physics	Gravitation	2	Lecture-2, Discussion

22-Nov-21	Physical Chemistry	Thermodynamics	2	"Zeroth and First Law of Thermodynamics, Enthalpy Function, Relation between DH and DU, Calorimetry, Practice Session 2"
	Organic Chemistry	Halogen Derivatives	2	G.M.P. of carbocation, Rearrangement
	Maths	Maxima & Minima(AOD)	5	Practice Session - 3
	Physics	Current Electricity	1	Introduction and Ohm's Law
23-Nov-21	Organic Chemistry	Halogen Derivatives	3	Acid catalysed & other dehydration of R-OH, pinacolone formation
	Physical Chemistry	Thermodynamics	3	"Thermodynamic Processes, Reversible and Irreversible Process, Analysis of Isochoric, Isobaric and Isothermal Process"
	Maths	Maxima & Minima(AOD)	6	Mean Value Theorems (RMVT and LMVT) & Practice Session Based upon Mean Value Theorem
	Physics	Current Electricity	2	DC Electrical Circuits-1
24-Nov-21	Organic Chemistry	Halogen Derivatives	4	Pinacole, Pinacolane rearrangement
	Physical Chemistry	Thermodynamics	4	"Adiabatic Process and Analysis, Isothermal and Adiabatic Comparison, Cyclic and Polytropic Process, Practice Session-4"
	Maths	Differential Equation	1	Practice Session -3(Area) and Theory of Difference Equation
	Physics	Current Electricity	3	DC Electrical Circuits-2
25-Nov-21	Inorganic Chemistry	Metallurgy	5	Practice Session -1
	Maths	Differential Equation	2	Practice Session-1
	Maths	Differential Equation	3	Practice Session-2
	Physics	Current Electricity	4	Equivalent Resistance
26-Nov-21	Inorganic Chemistry	Metallurgy	6	Practice Session -2
	Maths	Differential Equation	4	Practice Session-3
	Maths	Area Under Curve (AUC)	1	Theory and Practise Session - 1
	Physics	Current Electricity	5	Electrical Power and Instruments
27-Nov-21	Inorganic Chemistry	d-Block & f-Block Elements	1	Introduction and General Properties
	Maths	Area Under Curve (AUC)	2	Practise Session - 2
	Physics	Current Electricity	6	Discussion
	Physics	Capacitor	1	Capacitance and Types of Capacitors
29-Nov-21	Physical Chemistry	Thermodynamics	5	"Spontaneous and Non-Spontaneous Process, Entropy, Mathematical Definition, Statements of Second Law, Calculation of Entropy Change for Ideal Gas"
	Organic Chemistry	Halogen Derivatives	5	E+ Addition (HX, HOX, NOX, interhalogen X ₂ , X ₂ + water) M - rule, Nonclassical Carbo cation, HBO, OMDM, Kucherov Reaction
	Maths	Straigh Line	1	Theory Of Points and Practice Session-3 of Determinants
	Physics	Capacitor	2	Capacitors in Electrical Circuits

30-Nov-21	Physical Chemistry	Thermodynamics	6	Entropy calculation for different systems, third law of Thermodynamics, Gibbs function and Gibbs energy , Condition for spontaneity, significance of change in Gibbs Free Energy
	Organic Chemistry	Halogen Derivatives	6	S_N^1 , S_N^2 kinetics, mechanism; stereochemistry, substrate effect Application of S_N
	Maths	Straigh Line	2	Practice Session-1
	Physics	Capacitor	3	RC Circuits
1-Dec-21	Physical Chemistry	Thermochemistry	1	Enthalpy of Formation, Hess's Law, Enthalpy of Combustion, Lattice Enthalpy
	Organic Chemistry	Halogen Derivatives	7	(a) G.M.P. alkyl halide, by HCL, HCL, + $ZnCl_2$ + ; Nacl + H_2SO_4 PCL $SOCl_2$, PCl_3 on alcohol, Finkelstein, swarts
	Maths	Straigh Line	3	Practice Session-2 and Varieus forms of equation of line
	Physics	Capacitor	4	Capacitors with Dielectrics
2-Dec-21	Inorganic Chemistry	d-Block & f-Block Elements	2	General Properties
	Maths	Straigh Line	4	Practice Session-3
	Maths	Straigh Line	5	Position of a Point W.R.T. Line, Parametric form of Line, Distance Between Parallel Lines and Area of Parallelogram
	Physics	Magnetic Effect of Current	1	Biot Savart's Law
3-Dec-21	Inorganic Chemistry	d-Block & f-Block Elements	3	Compounds of D-Block Part-1
	Maths	Straigh Line	6	Image of a Point and Line About a Line Mirror and Concept of Family of Lines
	Maths	Straigh Line	7	Family of Lines and Angle Bisectors and Practices Session
	Physics	Magnetic Effect of Current	2	Ampere's Circuital Law
4-Dec-21	Inorganic Chemistry	d-Block & f-Block Elements	4	Compounds of D-Block Part-2
	Maths	Straigh Line	8	Angle Bisector and Shifting of Origin and Practice Session & Pair of Straight lines
	Physics	Magnetic Effect of Current	3	Magnetic Force On Moving Charges
	Physics	Magnetic Effect of Current	4	Magnetic Force and Hall's Effect
6-Dec-21	Physical Chemistry	Thermochemistry	2	Enthalpy of Neutrilisation, Fusion, Vaporiation, Sublimation, Hydration, Atomization
	Organic Chemistry	Halogen Derivatives	8	(b) G.M.P. of alcohol, (c) G.M.P. of ether (williamson)
	Maths	Circle	1	Basic Theory of Circle
	Physics	Magnetic Effect of Current	5	Magnetic Dipole Moment and MCG

7-Dec-21	Physical Chemistry	Thermochemistry	3	Bond Energy and Bond Dissociation Energy, Resonance Energy , Practice session-3
	Organic Chemistry	Halogen Derivatives	9	Introduction of elimination reaction E ₁ , E ₂ , E ₁ cb Application of elimination
	Maths	Circle	2	Practice Session-1
	Physics	Magnetic Effect of Current	6	Discussion
8-Dec-21	Organic Chemistry	Halogen Derivatives	10	(b) Elimination of esters (c) Hoffman's exhaustive elimination Photohalogenation of alkanes number of monohalogen derivatives Wurtz family reaction & Kolbe electrolysis Pinacoal formation
	Physical Chemistry	Electrochemistry	1	Construction of galvanic cell, Relationship between ΔG and E
	Maths	Circle	3	Tangents from an External point, Chord of Contact, Pair of Tangents, Length of Tangent and Angle Between Tangents
	Physics	Magnetism	1	Magnets and Magnetic Materials
9-Dec-21	Inorganic Chemistry	d-Block & f-Block Elements	5	ZnSO ₄ , CuSO ₄ , FeSO ₄ , f Block (Lanthanide and Actinide)
	Maths	Circle	4	Practice Session-3
	Maths	Circle	5	Family of Circles and Relative Position of Circles Practice Session 03
	Physics	Magnetism	2	Earth's Magnetism
10-Dec-21	Inorganic Chemistry	d-Block & f-Block Elements	6	Discussion of Practice Session-1
	Maths	Circle	6	Radical Axis of Two Circles and Radical centre and Radical Circle and Practice Session-4
	Maths	Parabola	1	Basics of Parabola
	Physics	EMI and AC	1	EMI: Faraday's and Lenz's Law
11-Dec-21	Inorganic Chemistry	s-block(PS sir)	1	Physical and chemical properties of Alkali and Alkaline earth Metals , Solution in liquid ammonia
	Maths	Parabola	2	Practice Session-1 and Parametric Equation of Parabola and Tangent in Various Form
	Physics	EMI and AC	2	Self and Mutual Induction
	Physics	EMI and AC	3	Motional EMF
13-Dec-21	Physical Chemistry	Electrochemistry	2	Electrochemical Series and Application, Half Cells their Reaction and Representation, Different Types of Half Cell
	Organic Chemistry	Alcohols & Ethers	1	GMP of RCHO & R ₂ CO by dry distillation, soda lime, decarboxylation
	Maths	Parabola	3	Tangents and Practise Session-2
	Physics	EMI and AC	4	Motional EMF and Induced Electric Field

14-Dec-21	Physical Chemistry	Electrochemistry	3	Practice Session 1, Application of NERNST Equation, Concentration Cell(Electrolyte and Electrode
	Organic Chemistry	Alcohols & Ethers	2	Complete heating effect
	Maths	Parabola	4	Normals and Practise Session-3
	Physics	EMI and AC	5	LC Oscillation AC Introduction
15-Dec-21	Physical Chemistry	Electrochemistry	4	Practice Session 2, Thermodynamics of Galvanic Cell(w, ΔG , ΔH , ΔS , Equilibrium Constant) Electrolytic Cell,. Faraday's Law of Electrolysis
	Organic Chemistry	Alcohols & Ethers	3	G.M.P. by RMgX
	Maths	Ellipse & Hyperbola	1	Parabola Practice Session -04 end Standard Ellipse and Hyperbola
	Physics	EMI and AC	6	AC Circuits
16-Dec-21	Inorganic Chemistry	s-block(PS sir)	2	Important compounds of Alkali & Alkaline Earth metals , Uses of Alkali metals and Alkaline Earth metals
	Maths	Ellipse & Hyperbola	2	Auxiliary Circle and Parametric Equation and Tangent in Different forms and Practice Session -1
	Maths	Ellipse & Hyperbola	3	Normals and Director Circle of Ellipse and Practice Session -2
	Physics	EMI and AC	7	Power in AC Circuits TransFormers
17-Dec-21	Inorganic Chemistry	Hydrogen & its compounds	1	Properties of Hydrogen, Hydrides, Water and hydrogen Periods
	Maths	Ellipse & Hyperbola	4	Practice Session -02 and Basic of Hyperbola
	Maths	Ellipse & Hyperbola	5	Practice Session -02 and Rectangular Hyperbola
	Physics	EMI and AC	8	Damped Oscillation
18-Dec-21	Inorganic Chemistry	Hydrogen & its compounds	2	Properties of H ₂ O ₂ , Hardness of Water and its Removal
	Maths	Ellipse & Hyperbola	6	Complete Theory of Hyperbola Except Rectangular Hyperbola & Practice Session-2
	Physics	EMI and AC	9	Discussion
	Physics	Modern Physics	1	EM Radiation & Photoelectric Effect
20-Dec-21	Physical Chemistry	Electrochemistry	5	practise session 3, qualitative aspects of electrolysis, electrolysis of molten and aqueous salt
	Organic Chemistry	Alcohols & Ethers	4	G.M.P. by reduction by H ⁻ , LAH,SBH, DIBAL-H,BH ₃ , MPV hydrogenation (lindlars catalyst & others)
	Maths	Vetor and 3D	1	Basics of Vectors and Addition and Dot Product
	Physics	Modern Physics	2	Physics of Atom-1
21-Dec-21	Physical Chemistry	Electrochemistry	6	practice session 4, special cases of electrolysis
	Organic Chemistry	Carbonyl Compounds	1	GMP of RCHO & R ₂ CO by RCN , Acid & derivatives by reduction, Nucleophilic addition HCN, NaHSO ₃ , NH ₂ -Z, 2, 4 DNP, H ₂ O, Wolf kishner & Clemenson reduction.
	Maths	Vetor and 3D	2	Vector Product of Two Vectors and Practice Session-1
	Physics	Modern Physics	3	Physics of Atom-2

22-Dec-21	Physical Chemistry	Electrochemistry	7	Conductance of Solution-1
	Organic Chemistry	Carbonyl Compounds	2	Nucleophilic addition of ROH (Protection of carbonyl), GMP of RCHO & R ₂ CO from alkene using ozonolysis
	Maths	Vetor and 3D	3	Vector Product of Two Vectors and Practice Session-1
	Physics	Modern Physics	4	X-Rays
23-Dec-21	Physical Chemistry	Electrochemistry	8	Conductance of Solution-2
	Maths	Vetor and 3D	4	Practice Session 03
	Maths	Vetor and 3D	5	Basics of 3D and dc'''s and dr'''s and Equation of Line
	Physics	Modern Physics	5	Nuclear Physics-1
24-Dec-21	Organic Chemistry	Carbonyl Compounds	3	Complete oxidation of alkene (hydroxilatton, prileschev, followed by diol cleavage
	Maths	Vetor and 3D	6	Practice Session 04
	Maths	Vetor and 3D	7	Theory of Plane and Practice Session-5 & 6
	Physics	Modern Physics	6	Nuclear Physics-2
27-Dec-21	Physical Chemistry	Electrochemistry	9	Conductometric Solution, Cells(Dry, Mercury, Lead Storage, Fuel Cell) Corrosion
	Organic Chemistry	Carbonyl Compounds	4	GMP of RCHO & R ₂ CO by oxidation of alcohol. (by KMnO ₄ , K ₂ Cr ₂ O ₇ , Cu /300°C , PCC , PDC, NBS, MnO ₂
	Maths	Matrix	1	Theory of Matrices Till Special Matrices
	Physics	Modern Physics	7	Discussion
28-Dec-21	Physical Chemistry	Electrochemistry	10	Practice Session 5
	Organic Chemistry	Carbonyl Compounds	5	Oxidation of carbonyl compound Haloform reaction, Bayer v. oxidation, tollens, fehling , benedict, schiff, HgCl ₂ , SeO ₂ . Perkin, acid. Reformatsky, knoevngal reactions
	Maths	Matrix	2	Theory and Properties of Transpose and Adjoint and Inverse of a Matrix and Practice Session-1
	Physics	Ray Optics	1	Plane Mirror Reflection
29-Dec-21	Physical Chemistry	Chemical Kinetics	1	"Introduction,Rate of Reaction/Disappearance/Appearance,Unit of Rate,Types of Rate (Average and Instantaneous), Factors Affecting Rate,Rate Law,Order and Molecularity,Types of Reaction - Simple and Elementary"
	Organic Chemistry	Carbonyl Compounds	6	Name reaction - Aldol, claisen, Cannizaro's reaction, benzil -benzilic acid rearrangement.
	Maths	Matrix	3	Practice Session 02
	Physics	Ray Optics	2	Plane Mirrors
30-Dec-21	Organic Chemistry	Hydrocarbons	1	Alkanes (GMP and Properties)
	Maths	Binomial Theorem	1	Basic Concepts of Binomial Theorem General Term, Middle Term etc. with Practice Session
	Maths	Binomial Theorem	2	Sum of Coefferent & Numerically Greatest Term, Practice Session

	Physics	Ray Optics	3	Reflection From Spherical Mirrors
31-Dec-21	Physical Chemistry	Chemical Kinetics	2	"Discussion of Practice Session-1,Zero,First,Second and nth Order Reaction, Various Shortcut and JH Tricks for First Order (imp. for JEE)"
	Maths	Binomial Theorem	3	Application of Binomial Theorem and Practice Session
	Maths	Binomial Theorem	4	Summation of Series with Practice Sessions
	Physics	Ray Optics	4	Spherical Mirror Problems Refraction
3-Jan-22	Physical Chemistry	Chemical Kinetics	3	" Discussion of Practice Session 2,Experimental Methods to Determine Order of Reaction, Determination of Rate Constant of First Order Reaction Using Different Parameters"
	Organic Chemistry	Hydrocarbons	2	Alkenes (GMP and Properties)
	Maths	Permutation and Combination	1	Fundamental Principle of Counting and Permutation with Practice Session
	Physics	Ray Optics	5	Critical Angle TIR Plane Surface Refraction
4-Jan-22	Physical Chemistry	Chemical Kinetics	4	"Discussion of Practice Session 3,Special Cases of First Order Reaction (1.Side or Parallel 2.Series or Sequential), Effect of Temperature- Temperature Coefficient, Arrhenius Equation , Variation of Rate Constant With Temperature"
	Organic Chemistry	Hydrocarbons	3	Alkynes (GMP and Properties)
	Maths	Permutation and Combination	2	Cyclic Permutation and Practice Session
	Physics	Ray Optics	6	Refraction Through Plane Surfaces
5-Jan-22	Physical Chemistry	Chemical Kinetics	5	"Effect of Temperature on Equilibrium Constant, Effect of Catalyst, Effective Collision Theory,Mechanism of Complex Reaction, Solved Numerical Class illustration"
	Organic Chemistry	Carboxylic Acids and Amines	1	Carboxylic acids methods of preparation and properties
	Maths	Permutation and Combination	3	Combination and Practice Session
	Physics	Ray Optics	7	Refraction Through Prisms, Spherical Surfaces
6-Jan-22	Physical Chemistry	Gaseous State	1	Gas Law's, Manometer and Barometer, Dalton's Law, Effusion and Diffusion
	Maths	Permutation and Combination	4	Arrangement and Selection of Identical Objects and Practice Session
	Maths	Permutation and Combination	5	Grouping and Practice Session
	Physics	Ray Optics	8	Refraction due to Lens
	Organic Chemistry	Carboxylic Acids and Amines	2	GMP of amines , Schmidt , Lossen , Curtius reaction Hoffmann bromamide degradation, Gabriel phthalimide reaction

7-Jan-22	Maths	Permutation and Combination	6	Distribution Identical Objects and Derrangement Theorem with Practice Session
	Maths	Probability	1	Basics of Probability and Classical Defination Probability with Practice Session
	Physics	Ray Optics	9	Lens, Dispersion of Light
8-Jan-22	Physical Chemistry	Gaseous State	2	Kinetic Theory of Gases,Types of Molecular Speeds,Maxwell's Distribution Curve and Mean Free Path
	Maths	Probability	2	Practice Session
	Physics	Ray Optics	10	Dispersion, Optical Instruments
	Physics	Ray Optics	11	Discussion
10-Jan-22	Physical Chemistry	Gaseous State	3	Real Gases,Deviation From Ideal Behaviour,Vander Waals Equation,Compressibility Factor
	Organic Chemistry	Carboxylic Acids and Amines	3	Beckmann rearrangement, Carbylamine test , Hinsbergs test Musturd oil reaction, Diazotisation Sheet Discussion carboxylic acids & Amines
	Maths	Probability	3	Venn Digram and Conditional Probability
	Physics	Heat Transfer	1	Thermal Conduction
11-Jan-22	Physical Chemistry	Gaseous State	4	Compressibility Factor in Different Conditions Liquefaction and Critical Constants Boyle's Temperature
	Organic Chemistry	Aromatic Compounds	1	Electrophillic aromatic substitution reaction , Nitration ,sulphonation halogenation
	Maths	Probability	4	Conditional Probability and Practice Session
	Physics	Heat Transfer	2	Thermal Radiation,Discussion
12-Jan-22	Physical Chemistry	Atomic Structure	1	Planck's quantum theory , Photo electric effect, Rutherford's model
	Organic Chemistry	Aromatic Compounds	2	F.C. alkylation , acylation, formylation,
	Maths	Probability	5	Multiplication Theorem, Total Probability Theorem bayes Theorem and Extended Bayes Theorem with Practice Session
	Physics	String Waves & Sound Wave	1	Travelling Transverse Wave In String
13-Jan-22	Organic Chemistry	Aromatic Compounds	3	Gattermann Koch, Gattermann Aldehyde reaction, Directive Influence and Activating Deactivation ,Preparation of phenol (ArSn, Cumen hydroperoxide, Dows etc)
	Maths	Complex Number	1	Basics of Complex Numbers and Practice Session
	Maths	Complex Number	2	Theory and Practices Session Based Upon Concept of Locus
	Physics	String Waves & Sound Wave	2	Superposition of Transverse Waves

14-Jan-22	Physical Chemistry	Atomic Structure	2	Bohr's model & Hydrogen spectrum
	Maths	Complex Number	3	Properties of Conjugate and Amplitude and Modulus with Practice Session
	Maths	Complex Number	4	Rotational Theorem with Practice Session and same Part of Theory of nth Roots of Unity
	Physics	String Waves & Sound Wave	3	Standing Waves (Transverse)
15-Jan-22	Organic Chemistry	Aromatic Compounds	4	Diazo Coupling (C-N, N-N) , other reaction of PhN_2Cl , Reaction of phenol (Reimer -Tieman reaction, Kolbe reaction) Preparation of DDT, Phenophthalein, TNT, Picric acid , Oxidation & reduction of aromatic compound
	Maths	Complex Number	5	nth Roots of Unity and Cube Roots of Unity With Practice Session
	Physics	String Waves & Sound Wave	4	Travelling Longitudinal Waves and Doppler's Effect
	Physics	String Waves & Sound Wave	5	Till Standing Longitudinal Waves
17-Jan-22	Physical Chemistry	Atomic Structure	3	Quantum mechanical model &
	Organic Chemistry	Biomolecules	1	Introduction of amino acid, Types of amino acid (Classification) Preparation of amino acid Electrophoreses, Isoelectric point & calculation of isoelectric point.
	Maths	JEE Main Topic (Mathematical Reasoning)	1	Complete Theory with Illustrations
	Physics	String Waves & Sound Wave	6	Resonance Column Interference Beats
18-Jan-22	Physical Chemistry	Atomic Structure	4	Schrodinger's wave equation
	Organic Chemistry	Biomolecules	2	Structure of amino acid at different pH, Separation of mixture of amino acid Reaction of amino acid Peptide , hydrolysis of peptide, Proteins & all structure , Test for protein
	Maths	JEE Main Topic (PMI, Height and Distance & Sets & Relations)	1	Complete Theory with Illustrations
	Physics	Wave Optics	1	Huygens Principle and Interference of Light

19-Jan-22	Physical Chemistry	Atomic Structure	5	Practice Session -1
	Organic Chemistry	Biomolecules	3	Introduction , definition & classification , Naming of monosaccharide Epimer & anomer Hawarth projection & chair conformation representation of monosaccharide(glucose, fructose, mannose, galactose,) Study of Disaccharide and polysaccharide & their hydrolysis,Test for carbohydrate DNA & RNA
	Maths	JEE Main Topic (Statistics)	1	Complete Theory with Illustrations
	Physics	Wave Optics	2	YDSE
20-Jan-22	Physical Chemistry	Surface Chemistry	1	Adsorption & Absorption
	Physics	Wave Optics	3	Cases Similar to YDSE, Thin Film Interference
	Organic Chemistry	Polymers & POC	1	Introduction , classification , Based on source / shape / reaction they are formed Classification based on molecular forces (Elastomer, fibre, thermoplastic, thermosetting), Types of polymerisation reaction, Zeigler natta catalyst. Details study of natural rubber, Gutta purcha , nylon-6, nylon-66 , phenol- formaldehyde resin, malamine formaldehyde resin, neoprin, buna-s, buna-n etc.,Commercial use of polymer
21-Jan-22	Physics	Wave Optics	4	Diffraction Polarisation and EM Waves
	Physical Chemistry	Surface Chemistry	2	catlysis & their types
22-Jan-22	Physics	Wave Optics	5	Discussion
	Physics	Fluid Mechanics	1	Fluid Statics
	Physical Chemistry	Surface Chemistry	3	colloids and their classification , preparation of colloids
24-Jan-22	Organic Chemistry	Polymers & POC	2	Test of alcohols, phenolic OH, terminal alkyne, aldehydes , Ketone, unsaturation, amines, carboxylic acid, aromatic compounds. Lassign test (elemental analysis) , binary mixture separation , solubility test
	Physics	Fluid Mechanics	2	Fluid Statics Problems ,Fluid Dynamics
25-Jan-22	Physical Chemistry	Surface Chemistry	4	properties of colloids, Coagulation and protecton of cooloids, purification and Emulsions
	Organic Chemistry	Chemistry in everyday life	1	Drugs and Medicines & its classification , Drug target intraction; Theropeutic action of drug (tranquilizers, analgesics, antibiotics,antiseptic, disinfectants, antifertillity drugs,) Chemical & foods (artificial sweeting agent, Food preservatives) Soaps, Saponification, degergents
	Physics	Fluid Mechanics	3	Fluid Dynamic ,Surface Tension

27-Jan-22	Physical Chemistry	Surface Chemistry	5	Discussion Practice Session-1
	Physics	Fluid Mechanics	4	Surface Tension and Viscosity
	Physics	Error and Measurement	1	Significant Digits and Errors
28-Jan-22	Physics	Error and Measurement	2	Vernier Callipers And Screw Gauge
	Physics	Semi Conductors and Communication	1	Semi Conductor- Types, P-N Junction
29-Jan-22	Physics	Semi Conductors and Communication	2	P-N Diodes , Rectifier, Types of Diodes
	Physics	Semi Conductors and Communication	3	Transistor
31-Jan-22	Physics	Semi Conductors and Communication	4	Logic Gates and Problems
	Physics	Semi Conductors and Communication	5	Communication System

Time Saver Course for JEE Advanced Lecture Plan - Physics		
S.No.	Chapter Name	No. of Lectures
1	Electrostatics	4
2	Current Electricity	3
3	Capacitance	2
4	Magnetic Effect of Current	3
5	EMI	3
6	AC	2
7	Modern Physics	5
8	Ray Optics	5
9	KTG and Thermodynamics	2
10	Elasticity, Calorimetry, Thermal Expansion and Heat Transfer	4
11	SHM	2
12	Wave	4
13	Wave Optics	3
14	Fluid Mechanism	3
15	Mechanics	5
16	Semiconductor	1
Total		51

**Time Saver Course for JEE Advanced
Lecture Plan - Chemistry**

S.No.	Chapter Name	No. of Lectures
1	Solid State	2
2	Liquid Solution	2
3	Chemical Kinetics & Radioactivity	3
4	Thermodynamics	3
5	Chemical & Ionic Equilibrium	4
6	Redox Reaction & Electrochemistry	3
7	Atomic structure	1
8	Gaseous state	1
9	Surface Chemistry	1
10	p-block	3
11	d-block	1
12	Periodic table & Chemical bonding	3
13	Environmental Chemistry	1
14	Coordination Compounds	3
15	s-block & Hydrogen	1
16	Metallurgy	1
17	Salt Analysis	2
18	Carbonyl Compounds	2
19	GOC	2
20	Hydrocarbons	2
21	Halogen derivatives	2
22	Carboxylic acid, oxidation and reduction	2
23	Aromatic Compounds	3
24	Amines	1
25	Free radical, alcohol and grignard reagent	2
26	Isomerism	2
27	Biomolecules, Polymers and Chemistry in Everyday Life	3
Total		56

**Time Saver Course for JEE Advanced
Lecture Plan - Mathematics**

S.No.	Chapter Name	No. of Lectures
1	Solution of triangle	3
2	Vector & 3D	4
3	Quadratic Equation & Basics	3
4	Sequence & Series	2
5	Trigonometry	2
6	Function & ITF	3
7	Limit, Continuity & Differentiability	3
8	Method of differentiation	2
9	Indefinite Integration	1
10	Definite Integration	2
11	Area Under Curve	1
12	Differential Equation	1
13	Application of derivatives	4
14	Point & Straight Line & Circle	3
15	Conic Section	4
16	Matrix & Determinant	2
17	Complex Number	3
18	Permutation & Combination	3
19	Probability	3
20	Binomial Theorem	2
Total		51