

JEE-Advanced Syllabus				
Units	Physics	Chemistry	Mathematics	Class
1	Essential Mathematics, Units & Dimensions, Vectors	Atomic Structure	Logarithm and Modulus Function	11
2	Motion in One Dimension, Motion in Two Dimension, Projectile Motion, Relative Motion	Periodic Table	Quadratic Equation	11
3	Circular Motion, Newton's Law of Motion, Friction	Chemical Bonding	Trigonometric Ratios	11
4	Work, Power & Energy	Basic Concepts of Chemistry, Redox and Volumetric Analysis	Trigonometric Equations	11
5	Momentum, Center of Mass, Conservation of Energy & Momentum	Gaseous State	Progressions	11
6	Rigid Body Dynamics, Rotational Motion	Chemical equilibrium	Permutation and Combination	11
7	Simple Harmonic Motion (SHM), Gravitation	Acid Base, Ionic equilibrium	Binomial Theorem	11
8	Properties of Matter, Elasticity, Surface Tension, Viscosity, Hydrostatics, Fluid Dynamics	Chemical Energetics	Point and Straight Line	11
9	Calorimetry, Thermal Expansion	Classification & Nomenclature, Isomerism (Except Optical Isomerism and Tautomerism)	Circle	11
10	Kinetic Theory of Gases, Law of Thermodynamics	GOC-1 (Brief Idea of Electronic Displacement Effects) Hydrocarbons (Preparation Methods, Physical and Chemical Properties without Optical Isomerism Application)	Parabola	11
11	Heat Transfer	s-block Elements	Ellipse and Hyperbola	11
12	Transverse Waves, Longitudinal Waves, Doppler's Effect in Mechanical Waves	p-block elements [Part-1(Boron and Carbon Family)], Hydrogen and its Compounds	Properties of Triangle and Radii of Circle	11
13	Electrostatics, Gauss Law	Chemical Kinetics, Nuclear Chemistry and Surface Chemistry	Function & Inverse Trigonometric Functions	12
14	Capacitance & Capacitor	Electrochemistry	Limit and Continuity of Function	12
15	Current Electricity, Heating Effect of Current	Solid State, Solution and colligative properties	Differentiability and Differentiation	12
16	Magnetic effect of Current	General Organic Chemistry, Optical Isomerism and Tautomerism	Application of Differentiation #1 [Tangent & Normal, Mean Value Theorems and Rate Measurement]	12
17	Electromagnetic Induction	Hydrocarbons	Application of Differentiation #2 [Monotonicity, Maxima and Minima]	12
18	Alternating Current	Halogen Derivatives	Indefinite Integration	12
19	Reflection Plane & Spherical Surface	Aromatic Chemistry, Alcohol, Ether and Phenol	Definite Integration	12
20	Refraction on Plane Surface, Prism	Carbonyl Compounds, Carboxylic Acid and its Derivatives, Nitrogen Compounds and Amines	Area under the Curves and Differential Equation	12
21	Refraction on Curved Surface, Lens, Optical Instrument	Carbohydrates, Amino Acid, Protein and Polymers, Practical Organic Chemistry	Probability	12
22	Light Waves, Interference of Light,	Coordination Compound, Metallurgy	Complex Number	12
23	Atomic Structure in Modern Physics, Matter Waves & De-Broglie	p-block elements [Part-2(Nitrogen, Oxygen, Halogen Family and Noble Gas)]	Matrices and Determinants	12
24	X-Ray, Photo-Electric Effect, Radioactivity, Nuclear Physics, Vernier Callipers, Screw Gauge	Salt/Qualitative Analysis, Transitional Elements	Vector and Three Dimensional Geometry	12