

JEE Main 2027 Complete Syllabus

Physics, Chemistry & Mathematics — Unit-wise Breakdown

Physics — Key Units

- Units, Dimensions & Measurement; Kinematics; Laws of Motion
- Work, Energy & Power; Rotational Motion; Gravitation
- Properties of Solids & Liquids; Thermodynamics; Kinetic Theory of Gases
- Oscillations & Waves; Electrostatics; Current Electricity
- Magnetic Effects of Current & Magnetism; Electromagnetic Induction & AC
- Electromagnetic Waves; Optics (Ray & Wave); Dual Nature of Matter & Radiation
- Atoms & Nuclei; Electronic Devices; Experimental Skills

Chemistry — Key Units

- Physical Chemistry: Basic Concepts, Atomic Structure, Chemical Bonding, States of Matter
- Physical Chemistry: Thermodynamics, Equilibrium, Redox & Electrochemistry, Chemical Kinetics
- Inorganic Chemistry: Periodic Table, Hydrogen, s-Block, p-Block Elements
- Inorganic Chemistry: d & f Block Elements, Coordination Compounds, Environmental Chemistry
- Organic Chemistry: Basic Principles, Hydrocarbons, Purification & Characterisation
- Organic Chemistry: Halogens, Alcohols/Phenols/Ethers, Aldehydes/Ketones/Acids, Amines, Biomolecules, Polymers, Chemistry in Everyday Life

Mathematics — Key Units

- Sets, Relations & Functions; Complex Numbers & Quadratic Equations
- Matrices & Determinants; Permutations & Combinations; Binomial Theorem
- Sequences & Series; Limits, Continuity & Differentiability; Integral Calculus
- Differential Equations; Coordinate Geometry (Straight Lines, Circles, Conic Sections)
- 3D Geometry; Vector Algebra; Statistics & Probability; Trigonometry
- Mathematical Reasoning

How to Use This List

Treat this as a checklist, not a study order. Group chapters by weightage (see our separate Chapter-wise Weightage Guide) and revise high-yield units first. The official NTA syllabus PDF, once released, should always be your final reference for exact topic wording.

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