



JEE (Main & Advanced) Syllabus

Physics

- Physics and Measurement
- Kinematics
- Laws of Motion
- Work, Energy and Power
- Rotational Motion
- Gravitation
- Thermodynamics
- Oscillations and Waves
- Electrostatics
- Current Electricity
- Magnetic Effects of Current and Magnetism
- Electromagnetic Induction and Alternating Currents
- Optics
- Dual Nature of Matter and Radiation
- Atoms and Nuclei
- Electronic Devices

Chemistry

- Some Basic Concepts in Chemistry
- Atomic Structure
- Chemical Bonding and Molecular Structure
- States of Matter
- Thermodynamics
- Equilibrium
- Redox Reactions
- Solutions
- Electrochemistry
- Chemical Kinetics
- Surface Chemistry
- General Organic Chemistry
- Hydrocarbons
- Haloalkanes and Haloarenes
- Alcohols, Phenols and Ethers
- Aldehydes, Ketones and Carboxylic Acids
- Biomolecules
- Coordination Compounds
- Environmental Chemistry

Mathematics

- Sets, Relations and Functions
- Complex Numbers and Quadratic Equations
- Matrices and Determinants
- Permutations and Combinations
- Binomial Theorem and Mathematical Induction
- Sequences and Series
- Limits, Continuity and Differentiability
- Integral Calculus
- Differential Equations
- Coordinate Geometry
- Three Dimensional Geometry
- Vector Algebra
- Statistics and Probability

- Trigonometry

Acharya Institute – The Science of Success