

SYLLABUS

for

12th Appearing / 12th Pass Students

IIT-JEE

1 Year Program for 12th PASS Students

PHYSICS

- Electrostatics
- DC Circuits
- Capacitance
- Magnetic Effects of Current
- EMI
- Physics of Atom and Nucleus
- Geometrical Optics
- Solids & Semiconductor
- Principle of Communication

CHEMISTRY

- Electrochemistry
- Complete Organic Chemistry (XI-XII)
- Atomic Structure
- Periodic Table
- Chemical Bonding
- Chemical Kinetics
- Energetics
- Solutions
- Gas Laws
- Gravimetric and Volumetric Analysis

MATHEMATICS

- Limits
- Continuity
- Differentiability
- Differentiation and its Applications
- Indefinite and Definite Integration
- Area under Curves
- Vectors
- 3D Co-ordinate Geometry
- Differential Equations
- Probability

MEDICAL

1 Year Program for 12th PASS Students

PHYSICS

- Electrostatics
- DC Circuits
- Capacitance
- Magnetic Effects of Current
- EMI
- Physics of Atom and Nucleus
- Geometrical Optics
- Solids & Semiconductor
- Principle of Communication

CHEMISTRY

- Solutions
- Electrochemistry
- Chemical Kinetics
- General Principles & Processes of Isolation of Elements
- *p*-Block Elements
- *d* and *f* Block Elements
- Coordination Compounds
- Haloalkanes and Haloarenes
- Alcohols, Phenols and Ethers
- Aldehydes, Ketones and Carboxylic Acids
- Organic Compounds Containing Nitrogen
- Biomolecules

BIOLOGY

- Reproduction
- Genetics and Evolution
- Biology and Human Welfare
- Biotechnology and Its Applications
- Ecology and environment