

## JMI EEE Syllabus

### Physics:

- Electromagnetic Induction and Alternating Currents.
- Electromagnetic waves.
- current Electricity
- Magnetism
- Work, Energy, and Power
- Surface Tension
- Viscosity
- Elasticity
- Gravitation
- Pressure
- Optics.
- Dual Nature of Matter and Radiation.
- Atoms & Nuclei.
- Electrostatics.
- Current Electricity.
- Magnetic Effects of Current and Magnetism.

### Chemistry

- Solid State
- Chemical Kinetics
- Biomolecules
- Electrochemistry
- Coordination Compounds
- Aldehydes, Ketones and Carboxylic Acids
- Solutions

### Mathematics:

- HCF and LCM, Rational numbers.
- Multiples and factors.
- Place value, use of symbols.
- Prime factorization.
- Simple and compound interest.

- Conversions of units of length & mass.
- Basic algebra, linear equation.

**Aptitude Test:**

- Problems on Trains
- Ratio and Proportion
- Simple Interest
- Volumes
- Profit and Loss
- Problems on Numbers
- Pipes and Cisterns
- L.C.M and H.C.F
- Compound Interest
- Averages
- Simple Equations
- Races and Games
- Quadratic Equations
- Percentages
- Mixtures and Allegations
- Mensuration
- Indices and Surds
- Data Interpretation
- Simplification and Approximation