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## OJEE Syllabus

### Physics

- **Physics and measurement**
- **Rotational motion**
- **Thermodynamics**
- **Kinematics**
- **Work, energy and power**
- **Properties of solids and liquids**
- **Gravitation**
- **Laws of motion**
- **Oscillations and waves**
- **Electronic devices**
- **Kinetic theory of gases**
- **Current electricity**
- **Communication systems**
- **Electromagnetic induction and alternating currents**
- **Magnetic effects of current and magnetism**
- **Optics**
- **Electromagnetic waves**
- **Atoms and nuclei**
- **Electrostatics**
- **Dual nature of matter and radiation**

### Chemistry

- **Some basic concepts in chemistry**
- **States of matter**
- **Atomic structure**
- **Chemical bonding and molecular structure**
- **Chemical thermodynamics**
- **Solutions**
- **Equilibrium**
- **Redox reactions and electrochemistry**
- **Chemical kinetics**

- **Surface chemistry**

## Syllabus for Organic Chemistry

- **Purification and characterisation of organic compounds**
- **Hydrocarbons**
- **Chemistry in everyday life**
- **Principles related to practical chemistry**
- **Organic compounds containing halogens**
- **Organic compounds containing oxygen**
- **Organic compounds containing nitrogen**
- **Polymers**
- **Some basic principles of organic chemistry**
- **Biomolecules**

## Mathematics

- **Complex numbers and quadratic equations**
- **Matrices and determinants**
- **Sets, relations and functions**
- **Mathematical induction**
- **Permutations and combinations**
- **Mathematical reasoning**
- **Limit, continuity and differentiability**
- **Integral calculus**
- **Three-dimensional geometry**
- **Differential equations**
- **Binomial theorem and its simple applications**
- **Sequence and Series**
- **Vector algebra**
- **Statistics and probability**
- **Trigonometry**
- **Co-ordinate geometry**