

# WBJEE Syllabus

WBJEE Physics Syllabus
Atomic Physics
Bulk properties of matter
Current Electricity
Electromagnetic induction & alternating current
Electromagnetic waves
Electrostatics
Gravitation
Kinematics
Kinetic theory of gases
Laws of motion
Magnetic effect of current
Magnetics
Nuclear Physics
Optics I (Ray optics)
Optics II (Wave Optics)
Oscillations & Waves
Particle nature of light & wave-particle dualism
Physical World, Measurements, Units & dimensions
Solid-state Electronics
The motion of the centre of mass, connected systems, Friction
Thermodynamics
Viscosity

WBJEE Chemistry Syllabus
Alcohol
Application Oriented chemistry

Aromatic Compounds
Atomic Structure
Atoms, Molecules and Chemical Arithmetic
Chemical Bonding and Molecular Structure
Chemical Energetics and Chemical Dynamics
Chemistry in Industry
Chemistry of Carbon Compounds
Chemistry of Metals
Chemistry of Non-Metallic Elements and their Compounds
Compounds
Coordination Compounds
Environmental Chemistry
Gaseous State
Haloalkanes and Haloarenes
Hydrogen
Introduction to Biomolecules
Ionic and Redox Equilibria
Liquid State
Physical Chemistry of Solutions
Polymers
Principles of Qualitative Analysis
Radioactivity and Nuclear Chemistry
Solid State
Surface Chemistry
The Periodic Table and Chemical Families

<ul style="list-style-type: none"> <li>• Algebra</li> <li>• Sets, Relations and Mappings</li> <li>• Logarithms</li> <li>• Arithmetic Progression G.P., H.P</li> <li>• Complex Numbers</li> <li>• Permutation and combination</li> <li>• Polynomial equation</li> <li>• Principle of mathematical induction</li> <li>• Matrices</li> <li>• Binomial theorem (positive integral index)</li> <li>• Statistics and Probability</li> </ul>
Coordinate geometry of three dimensions
Coordinate geometry of two dimensions
<ul style="list-style-type: none"> <li>• Differential calculus</li> <li>• Calculus</li> <li>• Integral calculus</li> <li>• Application of Calculus</li> <li>• Differential Equations</li> <li>• Vectors</li> </ul>
Trigonometry

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