BIHAR BOARD CLASS 12 SYLLABUS 2027

PHYSICS | Academic Session 2026–27

Subject-wise topics and chapter outline

This PDF is a topic-wise study guide prepared from publicly available 2026–27 BSEB syllabus summaries and standard subject outlines. It is not represented as an official BSEB-issued syllabus PDF. Confirm the final chapter list, deleted portions, practical work and prescribed textbook with the latest BSEB subject document before relying on it for examination preparation.

UNIT / CHAPTER	KEY TOPICS
Electrostatics	Electric charges and fields; Coulomb's law; electric dipole; electric flux; Gauss's law; potential and capacitance.
Current Electricity	Current, drift velocity, Ohm's law, resistance, cells, Kirchhoff's rules, Wheatstone bridge and electrical power.
Magnetic Effects of Current and Magnetism	Biot–Savart law, Ampere's law, force on a moving charge/current-carrying conductor, magnetic materials.
Electromagnetic Induction and Alternating Current	Faraday's and Lenz's laws, inductance, AC circuits, reactance, impedance and transformer.
Electromagnetic Waves	Displacement current, properties and electromagnetic spectrum.
Optics	Reflection and refraction, mirrors and lenses, optical instruments, wavefronts, interference and diffraction.
Dual Nature of Radiation and Matter	Photoelectric effect, matter waves and de Broglie relation.
Atoms and Nuclei	Bohr model, atomic spectra, nuclear composition, radioactivity, mass defect and binding energy.
Electronic Devices	Semiconductors, p-n junction, diode characteristics, rectifiers and basic electronic components.
Communication Systems	Basic communication system, signal transmission, modulation and propagation (confirm inclusion in the board's final subject PDF).

Official verification

Bihar School Examination Board: https://biharboardonline.com/ and Senior Secondary portal: https://seniorsecondary.biharboardonline.com/. Look for the Class XI–XII / Intermediate syllabus for session 2026–27.

Prepared for student reference. Subject combinations and optional subjects vary by school and registration.