



SYLLABUS UPDATES FOR NEET(UG) 2024
PHYSICS_CLASS-11th & 12th

| CLASS-11 th | | |
|------------------------|--|-------------|
| Unit Number | Units | Status |
| Unit 1 | Physics and Measurement | Change |
| Unit 2 | Kinematics | Change |
| Unit 3 | Laws of Motion | Change |
| Unit 4 | Work, Energy, and Power | No Change |
| Unit 5 | Rotational Motion | Change |
| Unit 6 | Gravitation | Change |
| Unit 7 | Properties of Solids and Liquids | Change |
| Unit 8 | Thermodynamics | Change |
| Unit 9 | Kinetic Theory of Gases | Change |
| Unit 10 | Oscillations and Waves | Change |
| CLASS-12 th | | |
| Unit Number | Units | Status |
| Unit 11 | Electrostatics | Change |
| Unit 12 | Current Electricity | Change |
| Unit 13 | Magnetic Effects of Current and Magnetism | Change |
| Unit 14 | Electromagnetic Induction and Alternating Currents | Change |
| Unit 15 | Electromagnetic Waves | No Change |
| Unit 16 | Optics | Change |
| Unit 17 | Dual Nature of Matter and Radiation | Change |
| Unit 18 | Atoms and Nuclei | Change |
| Unit 19 | Electronic Devices | Change |
| Unit 20 | Experimental Skills | Newly Added |



CLASS-11th

| Units | Class-11 NCERT Chapter | Dropped Physics Topics/Chapters | Added Physics Topics/Chapters |
|--|--|---|--|
| Units 1: Physics and Measurement | Chapter 1: Physical World | Full Chapter Deleted | - |
| | Chapter 2: Units & Measurement | Length, Mass, and Time Measurements, Accuracy and Precision of Measuring Instruments. | Least Count |
| Units 2: Kinematics | Chapter 3: Motion in Straight Line | Graphical Treatment of Uniformly Accelerated Motion Elementary Concepts of Differentiation and Integration for Describing Motion | - |
| | Chapter 4: Motion in Plane | Position and Displacement Vectors, General Vectors, General Vectors and Notation, Equality of Vectors, Multiplication of Vectors by a Real Number | - |
| Units 3: Laws of Motion | Chapter 5: Laws of Motion | Lubrication | - |
| Units 4: Work, Energy, and Power | Chapter 6: Work Energy and Power | - | - |
| Units 5: Rotational motion | Chapter 7: System of Particle and Rotational Motion | Momentum Conservation, and Centre of Mass Motion, Centre of Mass of Uniform Rod. | Basic Concept of Rotational Motion |
| Units 6: Gravitation | Chapter 8: Gravitation | Geostationary Satellites. | Motion of a Satellite, Time Period and Energy of a Satellite |
| Units 7: Properties of solids and liquids | Chapter 9: Mechanical Properties of Solids | Poisson's Ratio, Elastic Energy | - |
| | Chapter 10: Mechanical Properties of Fluids | Reynold's Number | Pressure Due to Fluid Column, Pascals Law and Its Application. Effect of Gravity on Fluid Pressure |
| | Chapter 11: Thermal Properties of Matter | Anomalous Expansion, Thermal conductivity, Green House Effect. Newton's Law of Cooling and Stefan's Law | - |
| Units 8: Thermodynamics | Chapter 12: Thermodynamics | Heat Engines and Refrigerators | - |
| Units 9: Kinetic theory of gases | Chapter 13: Kinetic Theory of Gases | - | RMS Speed of Gas Molecules, Avogadro's Number |
| Units 10: Oscillations and waves | Chapter 14: Oscillations | Free, Forced and Damped Oscillations (Qualitative Ideas Only), Resonance | - |
| | Chapter 15: Waves | Doppler Effect. | - |



CLASS-12th

| Units | Class-12 NCERT Chapter | Dropped Physics Topics/Chapters | Added Physics Topics/Chapters |
|--|--|---|-------------------------------|
| Units 11: Electrostatics | Chapter 01: Electric Charges and Fields | - | - |
| | Chapter 02: Electrostatic Potential and Capacitance | Free charges and bound charges inside a conductor, Van de Graaff generator. | - |
| Units 12: Current Electricity | Chapter 03: Current Electricity | Carbon resistors, colour code for carbon resistors Potentiometer-principle and applications to measure potential difference and for comparing emf of two cells measurement of internal resistance of a cell. | - |
| Units 13: Magnetic Effects of Current and Magnetism | Chapter 04: Moving charges and Magnetism | Concept of magnetic field, Oersted's experiment, toroidal, Cyclotron. | |
| | Chapter 05: Magnetism and Matter | Magnetic dipole moment of a revolving electron Earth's magnetic field and its elements Electromagnetic and factors affecting their strengths Permanent magnets. | - |
| Units 14: Electromagnetic Induction and Alternating Current | Chapter 06: Electromagnetic Induction | - | - |
| | Chapter 07: Alternating Current | LC oscillations (qualitative treatment only) | - |
| Units 15: Electromagnetic Waves | Chapter 08: Electromagnetic Waves | - | - |
| Units 16: Optics | Chapter 09: Ray Optics and Optical Instruments | Scattering of light- blue colour of the sky and reddish appearance of the sun at sunrise and sunset, Human eye, image formation and accommodation, correction of eye defects (myopia and hypermetropia) using lenses. | - |
| | Chapter 10: Wave Optics | Proof of laws of reflection and refraction using Huygens' principle., Resolving power of microscopes and astronomical telescopes. | - |
| Units 17: Dual Nature of Matter and Radiation | Chapter 11: Dual nature of radiation and Matter | Davisson-Germer experiment (experimental details should be omitted; only conclusion should be explained). | - |
| Units 18: Atoms and Nuclei | Chapter 12: Atoms | - | - |
| | Chapter 13: Nuclei | Isotopes, isobars; isotones, Radioactivity - alpha, beta and gamma particles, rays, and their properties decay law | - |
| Units 19: Electronic Devices | Chapter 14: Semiconductor Electronics | Energy bands, Junction transistor, transistor action, characteristics of a transistor, transistor as an amplifier (common emitter configuration) and oscillator. transistor as a switch | - |



| | LIST OF NEWLY ADDED EXPERIMENTS |
|----------------------------------|--|
| Units 20: Experimental Skills | <p data-bbox="375 394 1474 426">Familiarity with the basic approach and observations of the experiments and activities:</p> <p data-bbox="873 457 1019 485">CLASS 11th</p> <ol data-bbox="423 489 1484 852" style="list-style-type: none">1. Vernier callipers - its use to measure the internal and external diameter and depth of a vessel.2. Screw gauge - its use to determine thickness/diameter of thin sheet/wire.3. Simple pendulum - dissipation of energy by plotting a graph between the square of amplitude and time.4. Metre Scale - the mass of a given object by the principle of moments.5. Young's modulus of elasticity of the material of a metallic wire.6. Surface tension of water by capillary rise and effect of detergents.7. Co-efficient of Viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.8. Speed of sound in air at room temperature using a resonance tube.9. Specific heat capacity of a given (i) solid and (ii) liquid by method of mixtures. <p data-bbox="922 884 1068 911">CLASS 12th</p> <ol data-bbox="423 915 1370 1157" style="list-style-type: none">10. The resistivity of the material of a given wire using a metre bridge.11. The resistance of a given wire using Ohm's law.12. Resistance and figure of merit of a galvanometer by half deflection method.13. The focal length of; (i) Convex mirror (ii) Concave mirror, and (iii) Convex lens, using the parallax method.14. The plot of the angle of deviation vs angle of incidence for a triangular prism. |