SYLLABUS UPDATES FOR NEET-UG 2024

PHYSICS - CLASS-11th & 12th

CLASS-11th		
Unit	**Chapters**	**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-12th		
Unit	**Chapters**	**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			
Unit	**Class-11 NCERT Chapter**	**Deleted 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			
Unit	**Class-12 NCERT Chapter**	**Deleted 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	-

Units 20: Experimental Skills	**NEWLY ADDED:** Familiarity with the basic approach and observations of the experiments and activities: **CLASS 11th** 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. **CLASS 12th** 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.