

CLASS XII
PHYSICS-042
SPLIT-UP SYLLABUS 2025-2026

EXAM	TOPIC/CHAPTER	Experiments/Activity/Project	WEIGHTAGE
PT-I APRIL To JUNE	Ch-1: Electric fields and Charges Ch-2: Electrostatic Potential Ch-3: Current Electricity Ch-9: Ray Optics and Optical Instruments Ch-10: Wave Optics	1. Experiments: To determine resistivity of two wires by plotting graphs. 2. Visual Representation Activity: Use a laser pointer and glass block to demonstrate refraction and total internal reflection.	25
HALF – YEARLY JULY To SEPTEMBER	Ch-4: Moving Charges and Magnetism Ch-5: Magnetism and Matter Ch-11: Dual Nature of Radiation and Matter Ch-12: Atoms and Nuclei	3. Experiments: To find resistance of wires by using meter bridge. To verify the law of combination of resistors series using meter bridge. 4. Visual Representation Activity: Use a spectrum tube and diffraction grating to observe hydrogen emission lines.	27
PT-II OCTOBER To DECEMBER	Ch-6: Electromagnetic Induction Ch-7: Alternating Current Ch-8: Electromagnetic Waves Ch-14: Semiconductor Electronics	5. Experiments: To verify law of combination of resistors in parallel using meter bridge. To plot the V/I graph for <i>pn</i> -junction diode. 6. Simulation Activity: Build a simple rectifier or logic gate circuit using basic electronic components or simulators.	18
YEARLY JANUARY To MARCH	REVISION		
	TOTAL MARKS		70