

**CLASS XI**  
**PHYSICS-042**  
**SPLIT-UP SYLLABUS 2025-2026**

EXAM	TOPIC/CHAPTER	Experiments/Activity/Project	WEIGHTAGE
<b>PT-I</b>  APRIL  To  JUNE	Ch-1: Units and Measurements Ch-2: Motion in a Straight Line Ch-8: Mechanical Properties of Solids Ch-9: Mechanical Properties of Fluids Ch-10: Thermal Properties of Matter	<b>Experiments:</b> 1. Precision Measurement and Error Estimation: Use vernier callipers and screw gauge to measure small objects (e.g., wire thickness, pencil diameter). Compare readings and estimate errors. 2. Dimensional measurement using Vernier Calipers: To measure the internal diameter and depth with a vernier caliper: a. spherical body b. cylindrical body	25
<b>HALF – YEARLY</b>  JULY  To  SEPTEMBER	Ch-3: Motion in a Plane Ch-4: Laws of Motion Ch-11: Thermodynamics Ch-12: Kinetic Theory	<b>Experiments:</b> 3. Demonstration of Newton’s First Law (Inertia). 4. To measure: Internal diameter and Depth of a given beaker/calorimeter using Vernier Calipers and hence find its volume.	25
<b>PT-II</b>  OCTOBER  To  DECEMBER	Ch-5: Work, Energy and Power Ch-6: System of Particles and Rotational Motion Ch-13: Oscillations Ch-14: Waves	<b>Experiments:</b> 5. Human Power Estimation: Students climb stairs and calculate power using the formula: $\text{Power} = mgh/t$ (Measure mass, height of staircase, and time taken). 6. Micrometric Measurement using a Screw Gauge.	25
<b>YEARLY</b>  JANUARY  To  MARCH	Ch-7: Gravitation <b>REVISION</b>	<b>Experiments:</b> 7. Experimental Determination of Acceleration due to Gravity.	5
	<b>TOTAL MARKS</b>		<b>70</b>