

Annual & Weekly Syllabus Split-Up - 2025-26
Class- XI Subject- Physics

S.No	Month	No. of Working Days		No. of Days	Topic	Sub Topic	Resources	Activity	Periodic Test 1	Pre Mid Term	Term-1	Post Mid Term	Annual
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3	JUNE	19	Week 1	0	Units and Measurements								
			Week 2	6		Mathematical formula useful in physics, Need for measurement Units of measurement; systems of units; SI units, quantities,	NCERT, Senses Board, You Tube Videos, Vernier callipers,	To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.		✓	✓		✓
			Week 3	6		dimensional analysis and its applications.	NCERT, Senses Board, screwgauge,	To measure diameter of a given wire and thickness of a given sheet using screw gauge.		✓	✓		✓
			Week 4	6	Motion in a Straight Line	Frame of reference, Motion in a straight line,	Senses board, Ncert, spherometer	To determine radius of curvature of a given spherical surface by a spherometer.		✓	✓		✓
			Week 5	1		Elementary concepts of differentiation and integration for describing motion, uniform and non uniform motion	Senses board, Ncert			✓	✓		✓
4	JULY	27	Week 1	5		instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).	Senses board, Ncert			✓	✓		✓
			Week 2	6	Motion in a Plane	Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; Addition and subtraction of vectors, Unit vector; resolution of a vector in a plane, rectangular components,	Senses board, Ncert	To find the weight of a given body using parallelogram law of vectors.			✓		✓
			Week 3	6		Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform acceleration projectile motion, uniform circular motion.	Senses board, Ncert			✓		✓	
			Week 4	6	Laws of Motion	Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications.Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).	Senses board, Ncert			✓		✓	
			Week 5	4	Work, Energy and Power	Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power.	Senses board, Ncert			✓		✓	
Week 1	2	Notion of potential energy, potential energy of a spring, conservative forces: non-conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.	PRE MID TERM EXAM				✓		✓				

Week 2	5	System of Particles and Rotational	Centre of mass of a two-particle system, momentum conservation and Centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications	PRE MID TERM EXAM					✓		✓

[illegible]