

SYLLABUS FOR THE SESSION 2023-24

CLASS- XI

SUBJECT- PHYSICS

MONTH	TEXT BOOK-NCERT	DIGITAL RESOURCES	SUBJECT ENRICHMENT ACTIVITIES
July	Ch-1 units and measurements ch-2 motion in a straight line	Explanation from E- Library	1. 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.
August	Ch-3 Motion in a plane ch-4 Law of motion	Animated videos	2. To measure diameter of a given wire and thickness of a given sheet using screw gauge.
September	Ch- 5 Work , energy and power Ch- 7 Gravitation	Demonstration by video	3.To determine radius of curvature of a given spherical surface by a spherometer.
October	Ch-6 Systemof particles and rotational motion Ch-8 Mechanical properties of solids	Demonstration by video	4.Activities 1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm. 2.To study the variation in range of a projectile with angle of projection
November	Ch- 9 Mechanical properties of fluids ch-10 Thermal properties of matter	Animated videos	5. To determine Young's modulus of elasticity of the material of a given wire. 6. To find the force constant of a helical spring by plotting a graph between load and extension.
December	Ch-11 Thermodynamics ch-12 KineticTheory	Demonstration by video	7. To study the relationship between the temperature of a hot body and time by plotting a cooling curve. 8. To determine specific heat capacity of a given solid by method of mixtures.
January	Ch-13 Oscillation Ch-14 Waves	Animated videos	Activities 1. To observe change of state and plot a cooling curve for molten wax. 2. To observe and explain the effect of heating on a bi-metallic strip.