

# SYLLABUS 2022-23

## SUBJECT-PHYSICS

## CLASS-XI

### TERM I

MONTH	TEXT BOOK - TOPIC	E LIBRARY TOPIC	ACTIVITY PROJECT/READING/ASL
<b>JULY</b>	Chapter–2: Units and Measurements Chapter–3: Motion in a Straight Line	Chapter–2: Units and Measurements Chapter–3: Motion in a Straight Line	<b>Experiment - 1</b> -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.
<b>AUGUST</b>	Chapter–4: Motion in a Plane Chapter–5: Laws of Motion	Chapter–4: Motion in a Plane Chapter–5: Laws of Motion	<b>Experiment - 2</b> -To measure diameter of a given wire and thickness of a given sheet using screw gauge. <b>Experiment - 3</b> - To determine volume of an irregular lamina using screw gauge.
<b>SEPTEMBER</b>	Chapter–6: Work, Energy and Power Chapter–7: System of Particles and Rotational Motion	Chapter–6: Work, Energy and Power Chapter–7: System of Particles and Rotational Motion	<b>Activity -1</b> - To plot a graph for a given set of data, with proper choice of scales and error bars.

### TERM II

<b>OCTOBER</b>	Chapter–8: Gravitation Chapter–9: Mechanical Properties of Solids	Chapter–8: Gravitation Chapter–9: Mechanical Properties of Solids	<b>Activity -2</b> - To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm.
<b>NOVEMBER</b>	Chapter–10: Mechanical Properties of Fluids	Chapter–10: Mechanical Properties of Fluids	<b>Experiment - 4</b> - Using a simple pendulum, plot its L-T <sup>2</sup> graph and use it to find the effective length of second's pendulum.

<b>DECEMBER</b>	Chapter–11: Thermal Properties of Matter Chapter–12: Thermodynamics Chapter–13: Kinetic Theory	Chapter–11: Thermal Properties of Matter Chapter–12: Thermodynamics Chapter–13: Kinetic Theory	<b>Experiment - 5-</b> To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.
<b>JANUARY</b>	Chapter–14: Oscillations Chapter–15: Waves	Chapter–14: Oscillations Chapter–15: Waves	<b>Experiment - 6-</b> To study the relation between the length of a given wire and tension for constant frequency using sonometer.
<b>FEBRUARY</b>	Revision of Annual syllabus	Revision of Annual syllabus	<b>Final practical Exam and viva</b>