

St. Xavier's School

Syllabus and Lesson Planner



Class	11	Syllabus (2024–2025)		
Subject	PHYSICS			
Ch. No.	Name of Chapter	Topic	Month	Week
1	Physical world measurement	1. Unit & Dimension.	April	2
		2. Significant figure, rounding off a no.	April	1
		3. Error in measurement.	May	1
2	Kinematics	1. Motion in straight line	June	2
		2. Motion in plane	July	2
3	Laws of motion	1. Newton's laws of motion.	July	1
		2. Connected bodies and force diagram	July	1
		3. Friction	Aug.	1
4	Work, power and energy	1. Work, power and energy.	Aug.	1
		2. Collision.	Aug.	1
5	Motion of system of particles and rigid body.	1. Centre of mass.	Aug.	1
		2. Moment of Inertia.	Sep.	1
		3. Mechanics in rotational motion.	Sep.	1
6	Gravitation	1. Universal law of gravitation, acceleration due to gravity.	Sep.	1
		2. Gravitational field, potential, potential energy and Escape velocity.	Oct.	1
		3. Satellite and Kepler's laws.	Oct.	1
7	Properties of Bulk Matter	1. Elasticity	Nov.	1
		2. Surface tension.	Nov.	1
		3. Mechanical properties of fluid.	Nov.	1
8	Heat and thermodynamics	1. Transfer of heat, Black body radiation ect.	Nov.	1
		2. Thermodynamics.	Dec.	1
9	Behaviour of perfect gases and kinetic theory of gases.	1. Kinetic theory of gases.	Dec.	1
		2. Degrees of freedom and Sp. heat capacities of gases.	Dec.	1
10	Oscillation and waves.	1. Oscillation (SHM)	Jan	1
		2. Waves.	Jan	2
Unit test 1	Physical world and measurement			
Unit test 2	Kinematics			
Unit test 3	Motion of system of particles and rigid body			
Unit test 4	Gravitation			
Semester 1	Chapters: 1,2,3 and 4			
Semester 2	Chapters: 1 to 10.			