SUBJECT- Physics

SI No.	Month	Chapter	Learning Outcome
1	May	BRIDGE CLASSES	 Understand the scope and excitement of physics. Fundamental concept of graph, trigonometry Concept of differentiation and integration Application of deferential equation
2	June	Physical World and Measurement	 Understand the scope and excitement of physics. Recognize the need for measurement and units. Apply dimensional analysis in solving physical problems. Differentiate between fundamental and derived units. Understand accuracy, precision, and significant figures
3	July	Kinematics	 Understand the concept of motion in a straight line. Apply equations of motion for uniformly accelerated motion. Analyse motion in a plane using vectors. Understand the concept of projectile motion.
		Laws of Motion	 Grasp Newton's laws of motion and their applications. Understand the concept of force and inertia. Apply the concept of friction and analyse motion in the presence of friction. Understand the dynamics of circular motion.
4	August	Work, Energy, and Power	 Define work, energy, and power. Apply the work-energy theorem. Understand the concept of conservative and non-conservative forces. Analyse collisions and calculate kinetic and potential energy.
		System of Particles and Rotational Motion	 Understand the centre of mass and its motion. Analyse rotational motion and understand the moment of inertia. Apply theorems related to the moment of inertia. concept of torque and angular momentum
5	September	Gravitation	 Grasp Newton's law of gravitation. Understand the concepts of gravitational field and potential. Apply the principles of gravitation to planetary

			motion and satellites. o Analyze the concept of escape velocity and orbital velocity.
6	October	Properties of Bulk Matter	 Understand the mechanical properties of solids and fluids. Analyse the concepts of elasticity and Hooke's law. Understand the concepts of pressure, buoyancy, and viscosity. Apply the concepts of surface tension and capillarity.
7	November	Thermodynamics	 Understand the zeroth, first, and second laws of thermodynamics. Grasp the concept of heat, work, and internal energy. Apply the concept of heat engines and refrigerators. Analyse the Carnot engine and its efficiency.
8	December	Behaviour of Perfect Gas and Kinetic Theory	 Understand the ideal gas laws and equation of state. Apply the concept of degrees of freedom and law of equipartition of energy. Kinetic theory of gases and mean free path.
		Oscillations and Waves	 Understand the concept of simple harmonic motion (SHM). Analyse the energy in SHM and oscillations of a spring. Understand wave motion, speed of waves, and the principle of superposition.
	January	Revision	
	February + March	Final Examination	