

Curriculum Plan for 2026-27 ODD SEM

Prof. Seema Gupta

1st year GE Mechanics

No. Of period: 2

TOPICS	No. OF LECTURES	MONTH WISE SCHEDULE	Tutorial/Assignment/presentation
Review of Newton laws of motion, Dynamics of a system of particles, Centre of mass, Centre of mass for continuous and discrete systems having spherical symmetry, Conservation of momentum and energy, Work energy theorem, Conservative and non conservative forces.	10	July-August	Numericals
Force as a gradient of potential energy, Angular velocity, Angular momentum, torque, conservation of angular momentum, Moment of inertia, Theorem of parallel and perpendicular axis, Calculation of moment of inertia of discrete and continuous systems	8	September	Numericals
Idea of simple harmonic motion, Differential equations of simple harmonic motions and its solutions, Motion of simple and compound pendulum, Newton law of gravitation	8	October	Assignment, Numericals, Test
Motion of a particle in a central force	6	November	Numericals

field, kepler laws, satellite in circular orbit and applications, Geosynchronous orbits			
--	--	--	--