

Lesson Plan

Name of Assistant Professor: sushila

Class: B.Sc./ B. A. -III

Subject: Mechanics II

Lesson Plan: From January 16, 2023 to May 12, 2023.

Week 1 16.01.2023- 22.01.2023	Analytic condition of equilibrium of coplanar forces , Equilibrium of forces,
Week 2 23.01.2023- 29.01.2023	Condition of equilibrium,
Week 30.01.2023 - 05.02.2023	Friction, definition of friction, basic laws
Week 4 06.02.2023- 12.02.2023	equilibrium of rods and ladder
Week 5 13.02.2023- 19.02.2023	Center of gravity, center of gravitt of rod, triangle,
Week 6 20.02.2023- 26.02.2023	Center of gravity of uniform lamina
Week 7 27.02.2023- 05.03.2023	Motion of particle in elastic string
Week 8 06.03.2023- 12.03.2023	Holi Vacations
Week 9 13.03.2023- 19.03.2023	Hooks law,
Week 10 20.03.2023- 26.03.2023	Work power energy
Week 11 27.03.2023-02.04.2023	Definition of work, definition of energy
Week 12 03.04.2023-09.04.2023	Conservative forces
Week 13 10.04.2023- 16.04.2023	Motion of particle in smooth curve
Week 14 17.04.2023-23.04.2023	Projectile motion of particle
Week 15 24.03.2023-30.04.2023	Velocity at any point of trajectory, direction of projection of particle
Week 16 01.05.2023-08.05.2023	Range and time of flight, direction of projection
Week 17 09.05.2023-12.05.2023	Range and time of flight down an inclined plane

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Week 1 16.01.2023- 22.01.2023	Forces in two dimension, triangle law, polygon law
Week 2 23.01.2023- 29.01.2023	Lami theorem, like parallel forces, unlike parallel forces
Week 30.01.2023 - 05.02.2023	Forces in three dimension, Poinsot central axis, wrenches,
Week 4 06.02.2023- 12.02.2023	Velocity acceleration along plane curve,
Week 5 13.02.2023- 19.02.2023	Component of velocity and acceleration in radial direction
Week 6 20.02.2023- 26.02.2023	Component of velocity and acceleration in transverse direction
Week 7 27.02.2023- 05.03.2023	Relative velocity and acceleration
Week 8 06.03.2023- 12.03.2023	Holi Vacations
Week 9 13.03.2023- 19.03.2023	Newton law of motion, central orbit,
Week 10 20.03.2023- 26.03.2023	Differential equation of central orbit in polar form, in pedal form
Week 11 27.03.2023-02.04.2023	Areal velocity
Week 12 03.04.2023-09.04.2023	Elliptic, parabolic, hyperbolic orbit
Week 13 10.04.2023- 16.04.2023	Kepler law of planetary motion
Week 14 17.04.2023-23.04.2023	Newton law of gravitational motion
Week 15 24.04.2023-30.04.2023	Motion under inverse square law
Week 16 01.05.2023-08.05.2023	Revision
Week 17 09.05.2023-12.05.2023	Revision

