

SARASWATI MAHILA MAHAVIDYALAYA, PALWAL

SESSION:2021-22

LESSON PLAN

Name of faculty : Ms.Meha

Designation : Assistant Professor in Maths

Sem : Even

Class : Bsc-III(CS)

Subject : Dynamics

Sr.No.	Topics/chapters	Lectures	Topics of assignment/test
1.	Velocity and acceleration along radial, transverse, tangential and normal directions. Relative velocity and acceleration. Simple harmonic motion. Elastic strings.	Lect 1 to Lect 20	Test of Elastic strings.
2.	Mass, Momentum and Force. Newton's laws of motion. Work, Power and Energy. Definitions of Conservative forces and Impulsive forces.	Lect 21 to Lect 40	Assignment of Newton's laws of motion. Work, Power and Energy.
3.	Motion on smooth and rough plane curves. Projectile motion of a particle in a plane. Vector angular velocity.	Lect 41 to Lect 60	Assignment of Projectile motion of a particle in a plane.
4.	General motion of a rigid body. Central Orbits, Kepler laws of motion. Motion of a particle in three dimensions. Acceleration in terms of different co-ordinate systems.	Lect 61 to Lect 80	Test of Kepler laws of motion.

