

Session: 2023 - 2024

Name of the Teacher: Dr. MONIA
Class and Section: B.Sc.III(6th Sem.)
Subject: Mathematics
Paper: Dynamics

JANUARY
Week 3 Chapter: Velocity and acceleration along radial and transverse velocity
Week 4 Chapter: Examples and Exercise related to Velocity and acceleration along radial and transverse velocity
Week 5 Chapter: Acceleration along tangent and normal directions, Relative velocity and acceleration

FEBRUARY
Week 1 Chapter: Simple Harmonic motion, Examples and Exercise related to S.H.M.
Week 2 Chapter: Elastic Strings and Examples and Exercise related to Elastic Strings
Week 3 Chapter: Mass, Momentum and Force and Examples and Exercise related to Mass, Momentum and Force
Week 4 Chapter: Newton's laws of motion Examples and Exercise

MARCH
Week 1 Chapter: Work, Power and Energy Examples and Exercise
Week 2 Chapter: Definition of Conservative forces Examples and Exercise
<i>Assignments:</i>
Week 3 Chapter: Impulsive forces, Examples and Exercise
Week 4 Chapter: Motion on smooth and rough plane curves
Week 5 Vacations (Holi)

APRIL
Week 1 Chapter: Projectile motion of a particle in a plane
Week 2 Chapter: Vector angular velocity , General motion of a rigid body Examples and Exercise
Week 3 Chapter: Central Orbits, Kepler's laws of motion
<i>Quiz</i>
Week 4 Chapter: Motion of a particle in three-dimension, Acceleration in terms of different coordinate
Week 5 Chapter: Test