

SARDAR PATEL UNIVERSITY
Programme & Subject: B.Sc (Mathematics)
Semester: VI
Syllabus with Effect from: November/December-2013

Paper Code: US06CMTH06	Total Credit: 3
Title Of Paper: Mechanics - II	

Unit	Description in detail	Weighting (%)
I	Methods of plane dynamics, motion of a particle, motion of a system of particles.	
II	Applications in plane dynamics projectile with and without resistance, Motion under central force, planetary orbits.	
III	Kinetic energy of rigid body, angular momentum of rigid body, moment of inertia of a rigid body.	
IV	Rotational motion about a fixed line , impulsive motion , general theory of plane , collision.	

Recommended texts :

- J.L.Synge and B.A.Griffith , Principles of Mechanics .

Basic Text & Reference Books:-

- P.N.Chaterjee, Statics and Dynamics.

