

Module	Week	Activity	Topic Outcomes (TO)	CO	PO	Level in Bloom's Taxonomy	Delivery Methods/assessment	SLT		
								Contact Hour	Learning Hour	Total SLT
5	8-10	Systems of Particles	• Application of Newton's laws to the motion of systems of particles • Linear and Angular Momentum of a System of Particles • Motion of the Mass Center of a System of Particles • Angular Momentum of a System of Particles About Its Mass Centre • Conservation of Momentum for a System of Particles • Kinetic Energy of a system of particles • Work-Energy Principle. Conservation of Energy for a System of Particles • Principle of Impulse and Momentum for a System of Particles	CO2	PO2	C2	• Lecture • E-learning	9	9 3	21
6	11-13	Kinematics of Rigid Body	• Translation and Rotation About a Fixed Axis • Equations Defining the Rotation of a Rigid Body About a Fixed Axis • General Plane Motion • Absolute and Relative Velocity in Plane Motion • Instantaneous Center of Rotation in Plane Motion • Absolute and Relative Acceleration in Plane Motion • Rate of Change of a Vector with Respect to a Rotating	CO2	PO2	C2	• Lecture • E-learning • Quiz	9 0.25	9 0.75	22