MVSR Engineering College, Nadergul.

Department of Mechanical Engineering

COURSE OUTCOMES

Class: B. E. 1st Year (Common to all Branches)
Name of the course: Engineering Mechanics (OLD)
Course Code: CE 101

At the end of the course student is able to

CO no.	Course Outcomes	PO & PSO
CE101.1	Resolve forces acting on a body; obtain resultant force or moment acting due to set of forces and moments acting on a body; and determine unknown forces from equations of equilibrium of forces and moments.	PO1,PO2,PO12
CE101.2	Obtain location of centres of mass of regular and composite shapes; use Pappus theorems to calculate surface areas and volumes of composite structures.	PO1,PO12
CE101.3	Distinguish between static and kinematic friction, determine effect of static or kinematic friction forces acting on a single or a system of connected bodies; effect of friction in screw jack,wedge,brakes and belt transmission.	PO1,PO2, PO12
CE101.4	Compute area moment of inertia and products of inertia for simple and composite elements using integration methods and transform theorem; calculate mass MI and radius of gyration for regular and composite structures.	PO1, PO12
CE101.5	Obtain displacement, velocity and acceleration relations of particles in rectilinear and curvilinear motion including projectiles; write equations of motion under influence of forces for particles and connected bodies and for plane motion of rigid bodies.	PO1,PO2, PO12
CE101.6	Apply Principles of work and energy to motion of particle or connected bodies to evaluate the velocities and angular velocities of bodies in connected systems and involving plane motion.	PO1,PO2, PO12
CE101.7	Apply Principle of conservation of Momentum and impulse force/moment to evaluate the velocities of a body after application of force/moment, and of bodies in impact/collision considering Coefficient of Restitution.	PO1,PO2, PO12