

Course No.	Course Title	Credits	Pre-requisite	Learning Type
0706212	<b>Mechanics (Statics &amp; Dynamics)</b>	3	0402101 ,0401101	Face-to-face
<p>General principle, force systems; resultant, moment of a force, equivalent force-couple system. Particle and rigid body equilibrium in one plane. Types of supports are defined and analyzed by finding their internal forces (support reaction, axial force, shear forces and bending moments Beams; shear force and bending moment diagrams. Center of gravity. Moment of inertia. Planar kinematics and kinetics (force-acceleration and work- energy method) of particles and rigid bodies in rectilinear and curvilinear motion (normal and tangential coordinates).</p>				