



Teaching type	Credit hours(3)	Structural Mechanics	course number
face-to-face	pre-requisite 402101		703336
<p>Statics deal with forces acting on rigid bodies at rest covering coplanar and non-coplanar forces, concurrent and non-concurrent forces. The course also covers force vector, force system resultant, equilibrium of particles and rigid body, types of supports, free body diagram, type of structures (beams, frames and trusses) are defined and analysed by finding their internal forces (support reaction, axial force, shear forces and bending moments), centroid and moment of inertia and composite areas. Stress and strain (axial stresses, Hook's law, modulus of elasticity, bending stress)</p>			