

Course Syllabus

Course Code and Name	CE 26221 – Engineering Mechanics
Credit and contact hours	3 (2, 2, 0) (Lecture, Tutorial, Lab)
Required or Elective	Required
Level / Year	Level (3) / Year (2)
Course Prerequisite	-
Textbook	R.C. Hibbler, Engineering Mechanics: Statics and Dynamics, Pearson, latest edition
Course Description	This course gives the Engineering students the basic requirements of Engineering Mechanics that must be taught to all Engineering students. The course consists mainly of the two parts of Engineering Mechanics: statics and dynamics. The course is limited to planar static and dynamic systems.
Brief List of Topics to be Covered	<ol style="list-style-type: none">1- Statics of Particles2- Force and moment3- Equilibrium of particles4- Equilibrium of rigid bodies5- Structural analysis6- Internal forces and moments7- Dry friction8- Centroids and Centers of Gravity9- Kinematics of particles10- Kinetics of a Particle: Force and Acceleration11- Planar Kinematics of a Rigid Body12- Planar Kinetics of a Rigid Body: Force and Acceleration13- Work-energy for a rigid body
Course is prerequisite for	-