

COURSE CODE: ENGMEC1

COURSE TITLE: Statics of Rigid Bodies

DEPARTMENT: Civil Engineering

TEXTBOOK:

- Engineering Mechanics: STATICS (7th Edition), J.L. Meriam & L.G. Kraige, John Wiley & Sons, Inc. 2013
- Other References:
 - Engineering Mechanics (12th Edition), R.C. Hibbeler, Pearson Education South Asia, 2010
 - Engineering Mechanics: Statics (3rd Edition), A. Pytel, Cengage Learning, 2010
 - Engineering Mechanics: Statics and Dynamics (2nd Edition), F. Constanzo, McGraw-Hill, 2013
 - Engineering Mechanics, P. N. Chandramouli, PHI Learning Private, 2011

READING LIST:

- Basic Concepts in Mechanics
- Force Systems
- Resultant of 2D Force Systems
- Moment of a Force
- Equilibrium of Forces
- Analysis of Trusses: Joints & Sections
- Analysis of Frames: Members
- Application of Friction
- Centroids
- Resultant of 3D Force Systems
- Moment of Inertia

REQUISITE EQUIPMENT/MATERIALS FOR THE COURSE: None