

CE 221 – STATICS

FALL 2025-2026

Instructor

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Textbook: R. C. Hibbeler, "Principles of Statics", Pearson-Prentice Hall, 10th Ed, metric version, 2006, 432 pp.

Reference book: Beer, F.; Johnston, R., "Vector Mechanics for Engineers: Statics", McGraw-Hill, 7th Ed., 2003, 640 pp.

Evaluation: Midterm 1 - 30%
Lab sessions – 25%
Final (45%)

Course Website: Students are required to register themselves at course's MS Team group. All announcements and course material will be posted on this site.

COURSE OUTLINE

1. Force vectors
2. Equilibrium of a particle
3. Force system resultants
4. Equilibrium of a rigid body
5. Structural analysis: Trusses, frames and machines
6. Internal forces
7. Center of gravity and centroid
8. Moment of inertia
9. Virtual work and friction