

MECH 215. STATICS

Credits: 3

Offered by: Mechanical Engineering (Faculty of Engineering)

Terms offered: Fall 2025, Winter 2026

View offerings for Fall 2025 or Winter 2026 in Visual Schedule Builder.

Description

Static equilibrium of particles and rigid bodies. Beams, trusses, frames and machines. Concept of potential energy and virtual work. Static equilibrium and stability. Systems of forces, moments and couples. Static equilibrium and stability of particles and rigid bodies. Free body diagrams: 2D and 3D analysis. Structures: beams, trusses, joints, frames and machines. Concept of work and energy. Centers of mass, centroids, moments of inertia, and parallel-axis theorem. Static friction.

- Prerequisites: PHYS 101 or PHYS 131 or equivalent
- Restrictions: Not open to students who have taken or are taking MECH 210.
- 3-1-5

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