

CIVE 281. ANALYTICAL MECHANICS.

Credits: 3

Offered by: Civil Engineering (Faculty of Engineering)

Terms offered: Fall 2025

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Description

Kinematics of particles, dynamics of particles. Work, conservative forces, potential energy. Relative motion and general moving frames of reference. Central force fields and orbits. Dynamics of a system of particles. General motion of rigid bodies, angular momentum and kinetic energy of rigid bodies. Generalized coordinates and forces, Lagrange's equations.

- (3-1-5)
- Corequisites: MATH 262, MATH 263.

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