

MECH 412. SYSTEM DYNAMICS AND CONTROL.

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

Modelling of physical linear time-invariant systems using transfer functions. Transient and steady-state response specifications. State space representation of systems. Frequency-response characterization. Stability. Feedback control systems. PID controller design. Root locus and frequency response design methods. Lead, lag and PID compensators.

- (3-2-4)
- Prerequisites: MECH 309, MECH 315. Pre-/Co-requisite: MECH 331

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