CIVE 543. SYSTEM DYNAMICS FOR CIVIL AND ENVIRONMENTAL ENGINEERING

Credits: 3

Offered by: Civil Engineering (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Systems modelling, simulation, and analysis for transportation, energy, structural, construction, and environmental engineering. Overview of common feedback phenomena and their analysis using causal loop diagrams. Simulation using stock-flow, event-based, and agent-based approaches. Network representationand state-space representation of complex systems. Markov decision process. Model calibration and testing. System forecasting and optimization.

- Prerequisites: CIVE 302 and CIVE 320 or permission of the instructor
- · (3-0-6)

Most students use Visual Schedule Builder (VSB) to organize their schedules. VSB helps you plan class schedules, travel time, and more.

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