

MECH 332. FUNDAMENTALS OF FLUID MECHANICS

Credits: 4

Offered by: Mechanical Engineering (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Physical properties of fluids. Kinematics and dynamics of fluid flow: stress in a continuum, rates of strain, rotation. Control volume analysis; conservation of mass, linear momentum and energy; Euler and Bernoulli equations; Flow measurement. Dimensional analysis and dynamical similarity. Laminar and turbulent flow in pipes and boundary layers. Laminar and turbulent flow passed immersed bodies and external boundary layers. Introduction to turbomachines. Fundamentals of compressible flow.

- Prerequisites: MECH 241
- Corequisites: MECH 220, MATH 271
- Restrictions: Not open to students who have taken or are taking MECH 331 or MECH 430.

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