

MECH 415. APPLIED SOLID MECHANICS

Credits: 4

Offered by: Mechanical Engineering (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Modern phenomenological theories of the behaviour of engineering materials. Stress and strain concepts and introduction to constitutive theory. Applications of theory of elasticity and thermoelasticity. Introduction to finite element stress analysis methods. New version: Application of the theory of elasticity and thermoelasticity. Elements of plasticity, viscoelasticity, fracture, fatigue and creep. Composite Materials. Stress analysis using the method of finite elements.

- Prerequisites: CIVE 207 and MECH 230
- 4-2-6

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