

COURSE DETAIL

MECHANICS OF MATERIALS

Country

Japan

Host Institution

Tohoku University

Program(s)

Engineering and Science

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Engineering Civil Engineering

UCEAP Course Number

100

UCEAP Course Suffix

AV

UCEAP Official Title

MECHANICS OF MATERIALS

UCEAP Transcript Title

MECHNCS OF MATERIAL

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

Mechanics of materials is a branch of applied mechanics that deals with the basic behavior of solid bodies subjected to various types of loading. The knowledge of the stress and strain set up within the bodies and resulting deflection is a prerequisite for the structural design of industrial products and infrastructures such as buildings, roads, bridges, and various equipment. In this course, the basic idea of structural design is provided based on the quantitative evaluation of mechanical stress and strain fields in various structures.

Language(s) of Instruction

English

Host Institution Course Number

N/A

Host Institution Course Title

MECHANICS OF MATERIALS I

Host Institution Campus

Tohoku University

Host Institution Faculty

Host Institution Degree

Host Institution Department

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