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 Course Details
https://gkms3.bureau.tohoku.ac.jp/sa_qj/slbssbdr.do?value(risyunen)=2023&value(...

Host Institution Campus
Tohoku University

Host Institution Faculty

Host Institution Degree

Host Institution Department
JYPE

Course Last Reviewed
2023-2024

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