

# 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\\_gj/slbssbdr.do?value%28risyunen%29=2023&va...](https://gkms3.bureau.tohoku.ac.jp/sa_gj/slbssbdr.do?value%28risyunen%29=2023&va...)

### **Host Institution Campus**

Tohoku University

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

JYPE

### **Course Last Reviewed**

2023-2024

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