

# COURSE DETAIL

## STRENGTH OF MATERIALS

**Country**

Singapore

**Host Institution**

National University of Singapore

**Program(s)**

National University of Singapore

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering

**UCEAP Course Number**

111

**UCEAP Course Suffix****UCEAP Official Title**

STRENGTH OF MATERIALS

**UCEAP Transcript Title**

STRENGTH MATERIALS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course covers basic mechanical engineering knowledge and theory of mechanics of materials, and how they are used to solve practical engineering problems. Topics include introduction to statics, concept of stress and strain, analysis of stresses and deflections in a loaded beam, torsion of a circular bar as well as analysis of frames and machines. The course requires students to take prerequisites.

### Language(s) of Instruction

English

### Host Institution Course Number

ME2112

### Host Institution Course Title

STRENGTH OF MATERIALS

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Mechanical Engineering

[Print](#)