

## COURSE DETAIL

### CREATIVITY IN MACHINE DESIGN

**Country**

Korea, South

**Host Institution**

Korea University

**Program(s)**

Korea University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Engineering

**UCEAP Course Number**

125

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

CREATIVITY IN MACHINE DESIGN

**UCEAP Transcript Title**

CREATV MACHINE DSGN

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course covers the fundamentals of mechanical design for devices and systems, including an examination of economic and manufacturing viability.

Students will learn various design approaches for real engineering problems and, through team and individual projects, will participate in an entire design process from a sketch to a performance test. At the end of the course a contest will be held as a performance test for designed products.

Topics include fostering creative mechanical design skills, fostering creative implementation skills of product design, collaboration and teamwork skills, concept design, 2D and 3D design, machining and manufacturing skills, and how to create an effective presentation.

### Language(s) of Instruction

English

### Host Institution Course Number

MECH300

### Host Institution Course Title

CREATIVITY IN MACHINE DESIGN

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

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