

# COURSE DETAIL

## MECHANISM DESIGN

**Country**

Korea, South

**Host Institution**

Yonsei University

**Program(s)**

Yonsei University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering

**UCEAP Course Number**

126

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

MECHANISM DESIGN

**UCEAP Transcript Title**

MECHANISM DESIGN

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

Every moving mechanical system is composed of mechanism components, which are, for example, link, cam, and gear. In this course, students learn the skills to analyze the motion of such components. Students also learn how to synthesize mechanisms in order to make desired motions. Finally, students complete term projects so as to have hands-on experiences. Topics include kinematics fundamentals, position analysis, velocity analysis, acceleration analysis, cam design, gear trains, graphical linkage synthesis, and analytical linkage synthesis. Textbook: Robert L. Norton "KINEMATICS AND DYNAMICS OF MACHINERY" Assessment: Midterm exam (30%), Final exam (40%), Homework and project (20%), Participation (10%)

## Language(s) of Instruction

English

## Host Institution Course Number

MEU2630

## Host Institution Course Title

MECHANISM DESIGN

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Mechanical Engineering

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