

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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