

COURSE DETAIL

CONTROL SYSTEMS

Country

Taiwan

Host Institution

National Taiwan University

Program(s)

National Taiwan University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Electrical Engineering

UCEAP Course Number

124

UCEAP Course Suffix**UCEAP Official Title**

CONTROL SYSTEMS

UCEAP Transcript Title

CONTROL SYSTEMS

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course addresses modeling and control of dynamic systems. It focuses on systems that can be modeled by Ordinary Differential Equations (ODEs), and that satisfy certain linearity and time-invariance conditions (a.k.a. LTI systems). The course also analyzes the output response of these systems to initial conditions and inputs; investigates feedback control on LTI systems, and introduces the methods of classical control techniques. Students learn how to design a controller that ensures desirable properties (e.g., stability, performance, and robustness) with a given dynamic system.

Language(s) of Instruction

English

Host Institution Course Number

EE3024

Host Institution Course Title

CONTROL SYSTEMS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Electrical Engineering

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