

COURSE DETAIL

CONTROL ENGINNERING II

Country

Ireland

Host Institution

Trinity College Dublin

Program(s)

Trinity College Dublin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

105

UCEAP Course Suffix**UCEAP Official Title**

CONTROL ENGINNERING II

UCEAP Transcript Title

CTRL ENGINEERING II

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course focuses on design techniques for controllers and compensators. Continuous compensators are studied in detail and used as a basis for the design of discrete equivalents using the method of emulation. The course also introduces direct design techniques for the design of digital compensators and stability analysis for both continuous and discrete systems. Topics include real time computer implementation of discrete controllers, PID controllers, and associated tuning techniques. Design assignments are completed and simulated using Matlab and Simulink.

Language(s) of Instruction

English

Host Institution Course Number

ME5B09

Host Institution Course Title

CONTROL ENGR 2

Host Institution Campus

Trinity College Dublin

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Enginnering (Mechanical)

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