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 ENGINNERING II

Host Institution Campus
Trinity College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department
Enginnering (Mechanical)

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