

COURSE DETAIL

DYNAMICS AND CONTROL

Country

United Kingdom - England

Host Institution

University College London

Program(s)

University College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

134

UCEAP Course Suffix**UCEAP Official Title**

DYNAMICS AND CONTROL

UCEAP Transcript Title

DYNAMICS & CONTROL

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides students with an understanding of modern dynamic mechanical systems and their interaction with the world. Movement, sensing, control, and stability are modelled and discussed through examples such as self-driving cars, magnetic levitating (mag-lev) trains and satellite systems. The course provides physical experience of dynamic, vibrational, and resonant behavior, as well as strategies to improve dynamic response, control vibration, and stabilize inherently unstable systems. Students become familiar with modelling and analysis of dynamic systems and the methods to control them.

Language(s) of Instruction

English

Host Institution Course Number

MECH0023

Host Institution Course Title

DYNAMICS AND CONTROL

Host Institution Campus

University College London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mechanical Engineering

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