

COURSE DETAIL

DYNAMICS 4

Country

United Kingdom - Scotland

Host Institution

University of Edinburgh

Program(s)

University of Edinburgh

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

135

UCEAP Course Suffix**UCEAP Official Title**

DYNAMICS 4

UCEAP Transcript Title

DYNAMICS 4

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

The course provides an understanding of core aspects of advanced dynamic analysis, dealing with system modelling, dynamic response and vibration analysis, structural dynamics both in the linear and non-linear regimes, wave propagation, and the dynamics of continuous and multi-degree of freedom systems. The main objective is to obtain an understanding and appreciation of the potential and limitations of analytical approaches and solutions, and the value of these in underpinning modern computer methods for simulating dynamic structural response.

Language(s) of Instruction

English

Host Institution Course Number

MECE10002

Host Institution Course Title

DYNAMICS 4

Host Institution Campus

Edinburgh

Host Institution Faculty

School of Engineering

Host Institution Degree

Host Institution Department

[Print](#)