

COURSE DETAIL

FINITE ELEMENT ANALYSIS AND APPLICATIONS A

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

114

UCEAP Course Suffix**UCEAP Official Title**

FINITE ELEMENT ANALYSIS AND APPLICATIONS A

UCEAP Transcript Title

FINITE ELEMNT ANLYS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course teaches students to use finite element programs in a practical way to solve problems in linear elastic stress analysis. Upon completion of the course, students are able, in a later industrial setting, to undertake the analysis of real problems with a fair understanding of sensible modelling procedures. In support of this, the course is split into two stages: the theoretical study of the finite element method, with emphasis on understanding what goes on inside a typical, modern, commercial program; and practical experience in analysis using an industry-standard, interactive, finite element program.

Language(s) of Instruction

English

Host Institution Course Number

MECH60007

Host Institution Course Title

FINITE ELEMENT ANALYSIS AND APPLICATIONS A

Host Institution Campus

Imperial College London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mechanical Engineering

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