COURSE DETAIL

ADVANCED COMPUTER APPLICATIONS IN ENGINEERING

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 162

UCEAP Course Suffix

UCEAP Official Title ADVANCED COMPUTER APPLICATIONS IN ENGINEERING

UCEAP Transcript Title ADV COMP APP: ENGR

UCEAP Quarter Units 6.00

UCEAP Semester Units 4.00

Course Description

This course provides an understanding of the principles underpinning finite element analysis (FEA) and computational fluid dynamics (CFD). Lectures include basics of finite element method and current problems, challenges, insights, developments, etc., relevant to various types of applications of CFD in industry and research: Aerodynamics, F1 racing, gas turbines, internal combustion engines, weather forecasting, heat transfer, fundamental turbulence modelling, etc.

Language(s) of Instruction English

Host Institution Course Number MECH0059

Host Institution Course Title ADVANCED COMPUTER APPLICATIONS IN ENGINEERING

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department Mechanical Engineering

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