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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