COURSE DETAIL

COMPUTATIONAL CONTINUUM MECHANICS 2

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
126

UCEAP Course Suffix

UCEAP Official Title
COMPUTATIONAL CONTINUUM MECHANICS 2

UCEAP Transcript Title
COMP CONTINU MECH 2

UCEAP Quarter Units
5.00

UCEAP Semester Units
3.30

Course Description

This course introduces students to the fundamentals of continuum mechanics that underpin the theoretical understanding of many engineering disciplines and to demonstrate how problems in continuum mechanics can be solved using numerical techniques. Particular attention is paid to the theory and implementation of the finite element method. The course provides the theoretical basis for higher level courses on applications of finite element methods and finite volume methods and is a companion module to Fluid Mechanics and Stress Analysis.

Language(s) of Instruction
English

Host Institution Course Number
MECH60021

Host Institution Course Title
COMPUTATIONAL CONTINUUM MECHANICS A

Host Institution Course Details
[https://www.imperial.ac.uk/mechanical-engineering/study/undergraduate/detailed-...](https://www.imperial.ac.uk/mechanical-engineering/study/undergraduate/detailed-)

Host Institution Campus
Imperial College London

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mechanical Engineering

Course Last Reviewed
2023-2024

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