COURSE DETAIL

FLUID 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) Chemical Engineering
UCEAP Course Number 121
UCEAP Course Suffix
UCEAP Official Title FLUID MECHANICS 2
UCEAP Transcript Title FLUID MECHANICS 2
UCEAP Quarter Units 2.50
UCEAP Semester Units 1.70

Course Description
This course addresses conservation of mass; concept of stream function; conservation of momentum; derivation of governing equations using vector calculus and concepts of stress tensors; comparison with control volume approach; direct analytical solution of equations for unidirectional flows in (micro-)channels, pipes, and falling films; extension to flows that are not unidirectional; evolving flows; and concept of boundary layers. Example problems include unsteady shear flows, Blasius boundary layer, and jets.

Language(s) of Instruction
English

Host Institution Course Number
CENG95004

Host Institution Course Title
FLUID MECHANICS 2

Host Institution Course Details

Host Institution Campus
Imperial College London

Host Institution Faculty

Host Institution Degree

Host Institution Department
Chemical Engineering

Course Last Reviewed

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