COURSE DETAIL

FLUID MECHANICS II: HIGHER FLOW LEVEL
Country Germany
Host Institution Technical University Berlin
Program(s) Technical University Berlin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mechanical Engineering
UCEAP Course Number 100
UCEAP Course Suffix D
UCEAP Official Title FLUID MECHANICS II: HIGHER FLOW LEVEL
UCEAP Transcript Title FLUID MECHANICS II
UCEAP Quarter Units 5.50
UCEAP Semester Units

3.70

Course Description

This course is the second of two fluid mechanics courses that are taught concurrently in a single semester. Students take Fluid Mechanics I and then either Fluid Mechanics II (Higher Flow Level) or Fluid Mechanics II (Technique and Examples). This advanced course on fluid mechanics covers the following topics: Potential flow Vortex flows (Biot-Savartsches-law, wing theory), Boundary layer flows (Prandtl boundary layer equations, theory Blasius) Turbulent, incompressible flows (Reynolds equations, universal velocity profile, laminar-turbulent envelope), and Flows of compressible media.

Language(s) of Instruction
German

Host Institution Course Number
0531 L 212/0531 L 21

Host Institution Course Title
FLUID MECHANICS II: HIGHER FLOW LEVEL

Host Institution Campus
FAKULTÄT V VERKEHRS- UND MASCHIENENSYSTEME

Host Institution Faculty

Host Institution Degree

Host Institution Department
Strömungsmechanik und Technische Akustik

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