

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

STRÖMUNGSLEHRE II - HÖHERE STRÖMUNGSLEHRE

Host Institution Course Details

Host Institution Campus

FAKULTÄT V VERKEHRS- UND MASCHINENSYSTEME

Host Institution Faculty

Host Institution Degree

Host Institution Department

Strömungsmechanik und Technische Akustik

Course Last Reviewed

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