

COURSE DETAIL

FLUID MECHANICS II: TECHNIQUE AND EXAMPLES

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

B

UCEAP Official Title

FLUID MECHANICS II: TECHNIQUE AND EXAMPLES

UCEAP Transcript Title

FLUID MECH II: TECH

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). The course discusses topics including hydrostatics, kinematics of fluids, streamline theory of inviscid fluids, momentum and angular momentum, movement of compressible fluids, Navier-Stokes equation of motion and its applications, vortices and boundary layer flows, turbulent flows, pipe flows, flow around bodies, and similarity laws of fluid dynamics. The course consists of two hour lectures which review the course concepts, and two hour seminars in which students solve problems.

Language(s) of Instruction

German

Host Institution Course Number

0531 L 103,0531 L 10

Host Institution Course Title

FLUID MECHANICS II: TECHNIQUE AND EXAMPLES

Host Institution Campus

Host Institution Faculty

FAKULTÄT V VERKEHRS- UND MASCHINENSYSTEME

Host Institution Degree

Host Institution Department

Strömungsmechanik und Technische Akustik

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