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
STRÖMUNGSLEHRE II - TECHNIK UND BEISPIELE

Host Institution Course Details
https://moseskonto.tu-berlin.de/moses/modultransfersystem/bolognamodule/beschre...

Host Institution Campus

Host Institution Faculty
FAKULTÄT V VERKEHRS- UND MASCHIENENSYSTEME

Host Institution Degree

Host Institution Department
Strömungsmechanik und Technische Akustik

Course Last Reviewed
2021-2022

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