

COURSE DETAIL

FLUID MECHANICS

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering Engineering Chemical Engineering

UCEAP Course Number

145

UCEAP Course Suffix

A

UCEAP Official Title

FLUID MECHANICS

UCEAP Transcript Title

FLUID MECHNCS WATER

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The course studies various flow phenomena of both fundamental and technical importance. Students acquire knowledge about classical and modern techniques for the study and analysis of technical fluid mechanical problems. Part A examines the history and scope of fluid mechanics, integral relations for a control volume, differential relations for a fluid particle, viscous flow in ducts, introduction to turbulence, boundary-layer flows, and flow around slender and bluff bodies. Part B studies incompressible inviscid flow, aerodynamic theory, compressible flow, and open-channel flow.

Language(s) of Instruction

Host Institution Course Number

VVRF10

Host Institution Course Title

FLUID MECHANICS

Host Institution Course Details

https://kurser.lth.se/kursplaner/20_21%20eng/VVRF10.html

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Engineering - Water Resources Engineering

Course Last Reviewed

2022-2023

[Print](#)