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 Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Engineering - Water Resources Engineering

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