

COURSE DETAIL

FLUID MECHANICS II

Country

Taiwan

Host Institution

National Taiwan University

Program(s)

National Taiwan University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

110

UCEAP Course Suffix

B

UCEAP Official Title

FLUID MECHANICS II

UCEAP Transcript Title

FLUID MECHANICS II

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course is a continuation and extension both in materials and depth of Fluid Mechanics I, which is a fundamental and required course of the Department of Mechanical Engineering. This course provides students with a clear picture and explanation of flow phenomena but also enhance their capability of analysis of engineering problems. This course covers the following topics: Kinematics of Fluids; Governing Equations; Elements of Ideal-Fluid Flow; Viscous Flow Theory; Elements of Turbulent Flow; Steady One-Dimensional Compressible Flow, and Oblique shock and Expansion Waves.

Language(s) of Instruction

English

Host Institution Course Number

ME3903

Host Institution Course Title

FLUID MECHANICS II

Host Institution Campus

Host Institution Faculty

College of Engineering

Host Institution Degree

Host Institution Department

Department of Mechanical Engineering

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