COURSE DETAIL

THERMODYNAMICS AND FLUID MECHANICS
Country Australia
Host Institution University of Melbourne
Program(s) University of Melbourne
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Engineering
UCEAP Course Number 111
UCEAP Course Suffix
UCEAP Official Title THERMODYNAMICS AND FLUID MECHANICS
UCEAP Transcript Title THERMO & FLUID MECH
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course introduces the basic principles of fluid mechanics and thermodynamics. Fluid mechanics influences a diverse range of engineering systems (aircraft, ships, road vehicle design, air conditioning, energy conversion, wind turbines, and hydroelectric schemes) and also impacts many biological and meteorological studies. Thermodynamics could be defined as the science of energy. This subject can be broadly interpreted to include all aspects of energy and energy transformations. Like fluid mechanics, this is an important subject in engineering, underpinning many key engineering systems including power generation, engines, gas turbines, refrigeration, and heating. Real world engineering examples are used to illustrate and develop an intuitive understanding of these topics.

Language(s) of Instruction
English

Host Institution Course Number
MCEN30018

Host Institution Course Title
THERMODYNAMICS AND FLUID MECHANICS

Host Institution Campus
Parkville

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mechanical Engineering

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