

COURSE DETAIL

THERMODYNAMICS 2

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering Engineering

UCEAP Course Number

106

UCEAP Course Suffix

Y

UCEAP Official Title

THERMODYNAMICS 2

UCEAP Transcript Title

THERMODYNAMICS 2

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course develops an understanding of the principles of a variety of industrially-significant processes concerned with energy conversion and use, and of the design and operation of plant relying on those processes (including gas and steam turbines, boilers and heat exchangers, reciprocating engines, refrigeration and air-conditioning plant). It develops an ability to make thermodynamic analyses of the processes involved and to select and apply rational performance criteria and parameters. Students develop an awareness of the power and utility of thermodynamics in engineering design, both at the system and the component detail level, with recognition of the constraints imposed by materials, stressing, economics and the environment.

Language(s) of Instruction

English

Host Institution Course Number

MECH50006

Host Institution Course Title

THERMODYNAMICS 2

Host Institution Course Details

<https://www.imperial.ac.uk/mechanical-engineering/study/undergraduate/detailed-...>

Host Institution Campus

Imperial College London

Host Institution Faculty

Faculty of Engineering

Host Institution Degree

Host Institution Department

Mechanical Engineering

Course Last Reviewed

2023-2024

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