

COURSE DETAIL

APPLIED THERMODYNAMICS (MECHANICAL)

Country

United Kingdom - England

Host Institution

University of Manchester

Program(s)

English Universities, University of Manchester

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

116

UCEAP Course Suffix**UCEAP Official Title**

APPLIED THERMODYNAMICS (MECHANICAL)

UCEAP Transcript Title

APPL THERMODYN/MECH

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course explores steam turbine and gas turbine power systems such as road transportation, buses, aircraft, ships, refrigeration, and air conditioning. Students analyze them in terms of their cycle representations, thermodynamic efficiencies, work/heat inputs/outputs, fuel consumptions, etc. These analyses include the heat input to these systems which comes from internal combustion of fuel in air.

Language(s) of Instruction

English

Host Institution Course Number

MACE20035

Host Institution Course Title

APPLIED THERMODYNAMICS (MECHANICAL)

Host Institution Campus

University of Manchester

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Mechanical, Aerospace and Civil Engineering

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