

COURSE DETAIL

THERMODYNAMICS I

Country

Germany

Host Institution

Technical University Berlin

Program(s)

Technical University Berlin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

101

UCEAP Course Suffix

B

UCEAP Official Title

THERMODYNAMICS I

UCEAP Transcript Title

THERMODYNAMICS I

UCEAP Quarter Units

5.50

UCEAP Semester Units

3.70

Course Description

This course explores the fundamentals of thermodynamics including heat, energy, and the first two laws of thermodynamics. The course examines applications of thermodynamic principles such as power and refrigeration processes. The course reviews topics including thermodynamics properties of gases and liquids, real substances, quasi-static state changes and technical processes, exergy, gas mixtures, combustion, and air humidity. The course represents the lecture only.

Language(s) of Instruction

German

Host Institution Course Number

0330 L 444

Host Institution Course Title

THERMODYNAMICS I

Host Institution Campus

FAKULTÄT III PROZESSWISSENSCHAFTEN

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

Ingenieurwissenschaftliche

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