COURSE DETAIL

UCEAP Semester Units

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** Α **UCEAP Official Title** THERMODYNAMICS I **UCEAP Transcript Title** THERMODYNAMICS I **UCEAP Quarter Units** 14.00

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 consists of lectures (which discuss course concepts), tutorials, and seminars (in which students solve problems).

Language(s) of Instruction

German

Host Institution Course Number

0330 L 444/445/446

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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