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 A
UCEAP Official Title THERMODYNAMICS I
UCEAP Transcript Title THERMODYNAMICS I
UCEAP Quarter Units 14.00
UCEAP Semester Units

9.30

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
THERMODYNAMIK 1

Host Institution Course Details

Host Institution Campus
FAKULTÄT III PROZESSWISSENSCHAFTEN

Host Institution Faculty

Host Institution Degree

Host Institution Department
Ingenieurwissenschaftliche

Course Last Reviewed

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