COURSE DETAIL

INTRODUCTION TO ELECTRICAL ENGINEERING
Country Germany
Host Institution Technical University Berlin
Program(s) Technical University Berlin
UCEAP Course Level Lower Division
UCEAP Subject Area(s) Electrical Engineering
UCEAP Course Number 20
UCEAP Course Suffix
UCEAP Official Title INTRODUCTION TO ELECTRICAL ENGINEERING
UCEAP Transcript Title INTRO ELECTRIC ENG
UCEAP Quarter Units 5.50
UCEAP Semester Units 3.70

Course Description
This course offers an introduction to electrical engineering specifically for Electrical Engineering majors. Topics covered include: electrostatic field, charge, field, potential, voltage, polarization, capacity; stationary electric flow field, current, Ohm's law, resistance, power; stationary magnetic field: flow rate, inductance, permeability, magnetic circuits; induction, Inductance, Energy, Motion Induction, Resting Induction; simple networks: current and voltage sources, Kirchhoff sets, resistor networks; mathematical basics. vector calculus, integral calculus, orthogonal coordinate systems.

Language(s) of Instruction
German

Host Institution Course Number
0431 L 725

Host Institution Course Title
GRUNDLAGEN DER ELEKTROTECHNIK

Host Institution Course Details

Host Institution Campus
FAKULTÄT IV ELEKTROTECHNIK UND INFORMATIK

Host Institution Faculty

Host Institution Degree

Host Institution Department
Energie- und Automatisierungstechnik

Course Last Reviewed

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