

## 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)**

Mechanical Engineering

**UCEAP Course Number**

15

**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 covers the basics of electrical engineering for non-Electrical Engineering students. It is primarily intended for Mechanical Engineering, Traffic Engineering, and other related majors. The topics covered include: basic terms and sizes of electrical engineering, flow laws in DC circuits, electric field, magnet, field and induction law, basic laws in AC circuits, three-phase circuits, forced and free oscillations, semiconductors, amplifiers, digital electronics, motor.

**Language(s) of Instruction**

German

**Host Institution Course Number**

0430 L 522

**Host Institution Course Title**

GRUNDLAGEN DER ELEKTROTECHNIK (SERVICE)

**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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