

## COURSE DETAIL

### RENEWABLE ENERGY TECHNOLOGY IN ELECTRIC NETWORKS

**Country**

Germany

**Host Institution**

Technical University Berlin

**Program(s)**

Technical University Berlin

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering Engineering

**UCEAP Course Number**

113

**UCEAP Course Suffix****UCEAP Official Title**

Renewable Energy Technology in Electric Networks

**UCEAP Transcript Title**

RENEW ENERGY TECH

**UCEAP Quarter Units**

5.50

**UCEAP Semester Units**

3.70

## Course Description

The course covers the topic of renewable resources, including wind, sun, tides, and biomass as well as their significance for energy supply. At the beginning, the focus lies on the control of a photovoltaic plant. The modeling comprises irradiation and maximum-power-point-tracking. Furthermore, the modeling of wind energy conversion systems is considered. Other topics include battery application, fuel cells, and tidal energy.

## Language(s) of Instruction

English

## Host Institution Course Number

0430 L 528

## Host Institution Course Title

Renewable Energy Technology in Electric Networks

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Institut für Energie und Automatisierungstechnik

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