

# COURSE DETAIL

## ELECTRIC POWER SYSTEMS

**Country**

Sweden

**Host Institution**

Lund University

**Program(s)**

Lund University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Engineering Electrical Engineering

**UCEAP Course Number**

185

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

ELECTRIC POWER SYSTEMS

**UCEAP Transcript Title**

ELECTRC POWER SYSTM

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

The course covers systems for production, transmission, and distribution of electric energy under normal and abnormal conditions. The power blackout on a national level is used as a thematic example throughout the course. The course presents the structure and characteristics of the electric power system, which are lectured and studied in classroom and computer exercises and practical tests within the laboratory work. In industry, computer calculations are used for the analyses of international power systems. This type of calculation is part of the course, as well as calculations by hand, used to enhance the understanding of the computerized calculations. The course has relevance for an environmentally sustainable development: Electric energy is the most important form of energy for our prosperity. The course teaches how the power system works and can be controlled as effectively as possible and thereby minimize our energy consumption.

## Language(s) of Instruction

English

## Host Institution Course Number

EIEN15

## Host Institution Course Title

ELECTRIC POWER SYSTEMS

## Host Institution Campus

Engineering

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Engineering- Industrial Electrical Engineering and Automation

[Print](#)