

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

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