

COURSE DETAIL

WIND POWER TECHNOLOGY

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering Electrical Engineering

UCEAP Course Number

137

UCEAP Course Suffix**UCEAP Official Title**

WIND POWER TECHNOLOGY

UCEAP Transcript Title

WIND POWER TECH

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

Electricity consumption in the world is increasing, both in terms of quantity and as a proportion of total energy consumption. Wind power has the potential to make a major contribution to the electricity generation and this with very low CO2 emissions.

The course covers wind turbine design and operation as well as of atmospheric flows and the wind's interaction with the turbines and their surroundings. The course describes the operation of the wind power plants, aero- and structural dynamics and control. Furthermore, special attention is paid to wind and wind measurements and, more comprehensively, electrical, political, economic and environmental aspects.

Language(s) of Instruction

English

Host Institution Course Number

MVKP15

Host Institution Course Title

WIND POWER TECHNOLOGY

Host Institution Campus

Lund

Host Institution Faculty

Engineering

Host Institution Degree

Host Institution Department

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