

COURSE DETAIL

DESIGN OF ELECTRICAL MACHINES

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering Engineering Electrical Engineering

UCEAP Course Number

161

UCEAP Course Suffix**UCEAP Official Title**

DESIGN OF ELECTRICAL MACHINES

UCEAP Transcript Title

DES ELEC MACHINES

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces the calculation methods and experience of manufacturing options used by engineers to design electromagnetic devices such as transformers, actuators, and electric machines. The aim of the design of an electromagnetic device is the desired function, integration, and rational manufacturing method, and thus this course develops the related and relevant skills and experience. The course provides theoretical knowledge through lectures, and the acquisition of modelling skills and experience through assignments and course projects. Assumed prior knowledge: EIEF15 Electrical Engineering (EE), ETE055, EITF85 Electromagnetic Field Theory (PhyE), MIE012, EIEF35 Electrical Engineering, basic course (ME), ETEF01 Electromagnetic Field Theory (MathE).

Language(s) of Instruction

English

Host Institution Course Number

EIEN20

Host Institution Course Title

DESIGN OF ELECTRICAL MACHINES

Host Institution Course Details

https://kurser.lth.se/lot/course-syllabus/25_26/EIEN20

Host Institution Campus

Lund

Host Institution Faculty

Engineering

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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