FEJ3420 Seminars in Electrical Machines and Power Electronics 3.0 credits

Seminarieserie i elektriska maskiner och effektelektronik

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for FEJ3420 valid from Spring 2019

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

When the student has passed the course, the student should be able to relate theoretical knowledge to usefulness for industrial and academic R&D activities within the areas:

·Motor applications: for instance pumps, fans, electrical vehicles, etc.

·Power electronics applications: for instance trains, electrical vehicles, etc.

Course contents

The invited speakers from the industry and university research groups define the content of the course. The content is related to Electrical Machines, Power Electronics, Electric Traction and Hybrid Drive Systems.

Disposition

16 seminars of ca. 1.5 hours, preparation work to hold one seminar.

Examination

- EXA1 - Examination, 3.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Less than 8 seminars may be given each semester which means the student may have to attend more than 2 semesters of seminars.

Other requirements for final grade

- Attendance at 15 seminars
- Presentation of the student's research activities at one seminar

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.