



EI2510 Project in Electromagnetic Engineering 9.0 credits

Projekt i elektroteknisk teori och konstruktion

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

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

Establishment

Course syllabus for EI2510 valid from Autumn 2013

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Electrical Engineering

Specific prerequisites

120 credits and English B or equivalent. Circuit theory corresponding to EI1110 and electromagnetic theory corresponding to EI1200.

Language of instruction

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

Intended learning outcomes

After completing the course you will have practical experience of performing one or several typical tasks in areas such as electromagnetic field theory, antenna theory, electromagnetic compatibility, high voltage engineering, electrical design, reliability analysis of electrical components/systems. You should be able to formulate a realistic goal for a time limited task, follow up the implementation, and to document your work.

Course contents

May include

- design of measurement setup
- programming of measurement equipment and analysis of measurement data
- literature review and summary of a specific research area
- building a demonstrator or equivalent
- publish and present a paper at a scientific conference or in a journal

Disposition

Individual project corresponding to six weeks full time work, with access to supervision.

Course literature

Depends on the project and is determined together with the supervisor.

Examination

- PRO1 - Individual Project Task, 9.0 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.

Other requirements for final grade

Written time plan, at least one written status report, and a written final report.

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.