



EI132X Degree Project in Electromagnetic Theory, First Cycle

15.0 credits

Examensarbete inom teoretisk elektroteknik, grundnivå

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 EI132X valid from Autumn 2012

Grading scale

A, B, C, D, E, FX, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Eligible for study year 3. It is also recommended that 120 credits have been achieved before the start of the bachelor thesis.

An evaluation of the subject matter will be performed by the examiner

Language of instruction

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

Intended learning outcomes

The aim of the course is to develop the student's ability to independently carry out and report a project work within the area of electromagnetic theory.

After the course, the student is expected to be able to

- formulate a scientific research idea associated with scientific theories and/or earlier research within the area.
- make appropriate choices of scientific method, motivate them, and use the chosen methods in a systematic and competent way.
- formulate relevant and well-founded conclusions with reference to earlier research.
- present the work in both written and oral form, in a form consistent with the practice of the scientific community.

Course contents

The thesis work should be about an interesting problem within the area of electromagnetic theory. Examples of thesis work subjects can be found at the home page of the department. The student can also make her/his own suggestions, which will have to be approved by the tutor. For the thesis work subject to be approved, interesting problems within the research area must be defined. The focus of the work should be on investigation and analysis of the problem. The extent of the work should be such that it is clear that the student has performed at least 10 weeks worth of full-time work.

As an important part of the thesis work will be considered a careful specification and schedule for the task, and a search and study of relevant literature. The thesis work will be presented in both a written and an oral report.

Disposition

The thesis work is carried out at the department or at a company. The thesis work can be carried out individually or together with another student. In the latter case the examiner should make sure that the work of each student fulfills the requirements for an individual thesis work.

The work plan is normally

1. Literature study
2. Investigation and analysis
3. Report

Course literature

The course literature is determined together with the supervisor.

Examination

- XUPP - Examination Question, 15.0 credits, grading scale: A, B, C, D, E, FX, 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

The examiner determines the grading together with the tutor. The grade is determined by a weighting of several criteria, the time for completion of the work being one of them.

In some of the programs the student may be obliged to take part in the opposition of another student's thesis work.

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.