



# ED111X Degree Project in Electrical Engineering, First Cycle

## 15.0 credits

Examensarbete inom 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 ED111X valid from Spring 2011

### Grading scale

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

### Education cycle

First cycle

### Main field of study

Electrical Engineering, 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.

## Language of instruction

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

## Intended learning outcomes

Having taken the course, the student should be able to

1. apply relevant knowledge and skills from a field within electrical engineering through independent analysis, discussion and solution of extensive problems within this field,
2. give an account of basic concepts within at least one of the application areas of electrical engineering,
3. apply international and national regulations when required, and demonstrate awareness of social, ethical, and economic aspects of sustainable development,
4. reflect over, evaluate and critically examine personal and others scientific results,
5. document and present his/her work orally and in writing, with high standards in structure, formalities and language,
6. identify his/her need of additional knowledge and take responsibility for acquiring further knowledge,
7. plan and independently carry out smaller projects that require interaction with others in order to reach coordinated goals.

## Course contents

- Seminar series about information searching, oral and written presentation of technical information, project organisation as well as an introduction to the technical application area.
- Independent work on solving a technical problem related to an application context, oral and written communication as well as evaluation and critical assessment of ones own and other result within the same context

## Disposition

The main content is work on solving a technical problem related to an application context, oral and written communication as well as evaluation and critical assessment of ones own and other result within the same context. This is supported by a seminar series about information searching, oral and written presentation of technical information, project organisation as well as an introduction to the technical application area.

## Course literature

Kompedium som sammanfattar seminarieserien samt utdelad information inom varje teknisk kontext.

## 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.

The examination is done continuously during the course in a number of specific requirements. All tasks must be passed to give a pass on the whole course. Better results will then contribute to the grade.

## Other requirements for final grade

1. Participation in seminars
2. Work plan
3. The process (for each project)
4. Report - contents
5. Report - language & structure
6. Peer-review
7. Oral presentation
8. 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.