



II1332 Project in Electronics and Computer Engineering 7.5 credits

Projekt i elektronik och datorteknik

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

Establishment

Course syllabus for II1332 valid from Autumn 2014

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

The course aims to tie together knowledge from several courses within the program and, therefore, the following courses (or equivalent) shall be completed:

- IX1304 Calculus
- IX1303 Algebra and Geometry
- II1303 Signal Processing

- IE1304 Automatic Control
- IS1300 Embedded Systems
- IE1302 Electronic Product Development
- II1302 Projects and Project Methods

Language of instruction

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

Intended learning outcomes

During the course, a design containing the electronics and computer technology is to develop. The student should after the course for a given problem in the field of electronics and computer technology be able to:

- conduct a literature search to locate scientific and other relevant references and evaluate collected information based on applicability to the given problem formulation
- write clear and accurate references to the literature
- construct mathematical models to solve the given problem, and simulate and evaluate the proposed models
- reflect on the technical system's capabilities and limitations, its role in society and the responsibility for its exploitation
- present information and discuss problems and solutions in dialogue with different groups
- analyze problems, evaluate and propose appropriate solution options
- plan and carry out the work using a project management model
- construct parts of a larger technological system and to test and evaluate the completed construction
- write a technical report on the completion of construction.

Course contents

Real project of a electronic and computer based design. Project planning with a real project model. The project is done at our department with available resources. The project group will have contact with the orderer continuously during the project to discuss and evaluate the project work. A written and oral presentation of the project.

Examination

- PRO1 - Project, 7.5 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.

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

Other requirements for final grade

Approved project work (PRO1; 7,5 credits).

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.