HE1035 Project Course in Electrical Engineering 9.0 credits

Projektkurs inom elektroteknik

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

Establishment

Course syllabus for HE1035 valid from Autumn 2011

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Basic knowledge in project work and engineering methods, electricity, electronics, telecommunications and computer networks.

Language of instruction

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

Intended learning outcomes

The course aims at applying, and deepening, the knowledge in electrical engineering from previous courses in project work. The course should give the student further training in carrying out a larger project in some of the fields electrical power, telecommunications and computer networks, and electronics.

After completing the course the student should:

·   be able to write a system specification for an independently formulated requirement specification

·   be able to construct and update a project plan

·   have experience of the role as project manager

·   acquired applied and in-depth knowledge in parts of the electrical engineering field

·   be able to assess the need for, and methods to obtain, deeper technical knowledge in relevant technical fields during the project

·   use proper methods for communication between the project members and with the advisors

·   be able to continuously document the project work

·   be able to present the technical content and contribution of the project in a written report and in other appropriate ways

·   be able to explain and analyze his/her own independent contribution to the project work and result

·   be able to specify and analyze the new technical knowledge and understanding for project work that the course has led to

Course contents

A project-based course with practical applications and deeper studies, of the content in previous courses in electrical power, electronics, telecommunications and computer networks.

Course literature

Will be announced before the course starts.

Examination

- PRO1 - Project Work, 7.0 credits, grading scale: A, B, C, D, E, FX, F

- RED1 - Account, 2.0 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.

Other requirements for final grade

PRO1; 7,0 hp, grades A-F
RED1; 2,0 hp), grades P/F
Final grading: A-F.

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.