HI1010 Computer Engineering Project 7.5 credits

Datatekniskt projekt

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 HI1010 valid from Autumn 2007

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Basic knowledge in project management, information technology, engineering methodology, computer programming, operating systems, digital and micro computer technology and data communications and networks.

Language of instruction

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

Intended learning outcomes

In this course, the students, in project form, apply and deepen their knowledge of computer engineering and software development.
The project is implemented as introduced in the previous course, Engineering and Information Skills. In this course the students further develop their skills in project planning and problem solving in a project. Emphasis is on a clear requirement specification as a basis for the development of a software prototype.

After completing this course the student shall be able to:

- work according to general engineering methods

- budget a project according to given instructions

- time schedule a project according to given instructions

- handle the role as project leader

- establish and analyse a requirement specification, together with a clear specification of delimitations

- create a prototype or solution according to the given specifications

- describe the prototype or solution in the form of a written report

The student should, after completing this course, also have applied and deepened her/his knowledge of computer engineering and software development corresponding to the programs courses.

Course contents

Deepening and applying knowledge and skills from previous courses concerning:

- project management
- engineering methodology
- information technology
- computer programming
- operating systems
- digital and micro computer technology
- data communications and networks

Course literature

Projekthandbok KTH-STH

Examination

- PRO1 - Projekt, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- PRO2 - Projekt, 4.5 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.

Other requirements for final grade

Project report and oral presentation, PRO1, 3 credits (ECTS) A-F. The exam contains both theoretical and practical portions.
Software prototype, PRO2, 4.5 credits (ECTS) A-F.

The final grade is based on all parts of the examination.

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.