IT2661 Individual Studies in Microelectronics and Applied Physics 7.5 credits

Individuella studier i mikroelektronik och tillämpad fysik

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 IT2661 valid from Autumn 2008

Grading scale

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

Education cycle

Second cycle

Main field of study

Electrical Engineering,Engineering Physics

Specific prerequisites

Language of instruction

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

Intended learning outcomes

The goal of the course is to provide an opportunity to do an experimental or theoretical in-depth study in an area of special interest to to the student where there is competence within the department. Typically the course content could be a well defined instrumentation design/construction project, some experimental work, or a theoretical/simulation study. After a completed project the student should be able to take completesimilar design projects as well as be able to provide a sufficient documentation of the work as was the case in an industrial context.

Course contents

The topics should be well defined projects that are possible to complete within a five week period of full time studies. The project should be on the level for 3rd and 4th year Microelectronics students (D nivå).

Course literature

Bestäms i samråd med projektansvarig

Examination

- ANN1 - Exercise, 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.

Other requirements for final grade

The result of the project should be a a) A lab instrumentation/lab demo/ some theoretical/simulation resultb) A technical report (max 10 pages) on the above written by the studentc) A one page web-page written by the student (send the HTLM code to the course examiner) to describe the result in a popular fashion. This will later be used to advertise the course on the web-page of the course (see this as a recruitment opportunity for your lab).

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.