



HL202X Degree Project in Medical Engineering, Second Cycle

30.0 credits

Examensarbete inom medicinsk teknik, avancerad nivå

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

Establishment

Course syllabus for HL202X valid from Autumn 2008

Grading scale

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

Education cycle

Second cycle

Main field of study

Electrical Engineering, Medical Engineering

Specific prerequisites

At least 60 credits in the Master's program must be completed, including 30 credits of specialization at the advanced level in the main field.

Language of instruction

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

Intended learning outcomes

- After the course the student should:
be able to apply relevant knowledge and skills acquired during the education to a given problem
- within established limits, and with limited information, be able to independently analyze and discuss complex issues and deal with major problems at advanced level within the main field
- demonstrate ability to reflect upon and critically review own and others' scientific achievements
- be able to document and present the work with high demands on structure, formality and language processing
- demonstrate an ability to identify the need for further knowledge and take responsibility for developing own knowledge

Course contents

To meet the requirements for a master degree the thesis should be part of a deeper study at advanced level in the main field. This means that the thesis must be completed in the main field of study. The work can be carried out at KTH or externally. The student is supervised during the work by supervisors at KTH and for external projects also by a supervisor at the site where the work is done.

Disposition

The work is done individually or in a group of two students. In the latter case, the examiner must make sure that the work of each student meets the requirements for an individual master thesis. The work is reported in writing and orally in Swedish or English. Depending on the requirements of the program of which the student is registered there may be requirements of opposition, i.e. the student will be opponent on the presentation of the work of another student and also have an opponent at the own presentation.

The thesis work will be assessed with respect to

- Process
- Engineering and scientific content
- Presentation

For the thesis work to be graded pass the work must reach the level pass according to all three criteria.

Final grading of the work is done by the examiner after the report has been checked with respect to plagiarism.

Course literature

Independent literature and literary studies in the given problem area are expected. Reading can also be proposed by the examiner or supervisor.

Examination

- XUPP - Examination Question, 30.0 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.

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

Other requirements for final grade

Planning and execution of work according to plan, written report and oral presentation (XUPP; 30hp)

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.