



MF123X Degree Project in Mechatronics, First Cycle 15.0 credits

Examensarbete inom Mekatronik, grundnivå

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 MF123X valid from Spring 2014

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Language of instruction

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

Intended learning outcomes

After a completed course, the students should be able to:

- Use independent methods of study to deepen individual knowledge;
- Present the developed work in a written report as well as in web-based format, in both cases with demands content, structure and language;
- Give an oral presentation of the performed work as well as opposing on other peoples work in front of a larger auditorium
- Formulate a mechatronic design or analysis problem of limited complexity and search for solutions by the use of modelling, simulation and computer based tools;
- Develop/design/select a component or subsystem and verify the characteristics of the solution by using e.g. simulation;

Course contents

The course is built upon a deeper individual study of a mechatronic problem or subtopic of particular interest. Partly through seminars, but mainly by individual search, the necessary knowledge is acquired to enlighten, answer and discuss the selected problem area.

Parts of the course is performed in groups of 2-3 students whereas other parts are done individually.

In addition to the written and oral presentation of the work performed, the course also includes critical opposition and discussion of other peoples work.

Disposition

Period 3, 4
Seminars 20 h

Specific prerequisites

Qualified for studies in grade 3, MF1016/4F1816 och påbörjat DD1321(2D1321)

Course literature

Will be communicated at the beginning of the course.

Examination

- PRO1 - Project, 15.0 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.

Other requirements for final grade

Written report and presence at mandatory sessions. (PRO1; 15 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.