



MF1022 Project Course in Mechatronics 15.0 credits

Fördjupningsarbete i mekatronik

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

Establishment

Course syllabus for MF1022 valid from Autumn 2007

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

All accepted students are expected to have participated in Electrical engineering for M, P or T, Product realization for M or T, or alternatively Design and product realization A-C for P, and further Programming for embedded systems,
Solid Mechanics

Language of instruction

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

Intended learning outcomes

After completed course, the students should be able to:

- apply knowledge and skills that have been previously acquired, as well as using information sources for the gathering of new knowledge, to solve mechatronic problems
- perform independent and professional work, in a project organization
- produce technical reports with high demands on content, structure and language
- orally present the engineering work carried out.

Course contents

Parallel to the three practical parts of the course the students perform a theoretical study that is presented in a seminar series. Further, a series of workshops are given to support the learning process and to exemplify current technologies and solutions such as CAN and Bluetooth.

The course also encompasses information search, writing technical reports, oral presentation and opposition.

The theoretical study including the result of the individual project will be documented together with the team project into a report.

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.

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

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.