MF1040 Design and Product Realization Methodology 9.0 credits

Design och produktframtagning, metodik

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 MF1040 valid from Autumn 2014

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Least 60 credits + the courses MF1046, MF1037, MF1038, MF1039, MG1006.

Language of instruction

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

Intended learning outcomes

The overall aim is to provide basic knowledge about the development and manufacture of products.

After completing this course, you will be able to:

- methodically propose solutions to technical problems
- compare and evaluate different solutions to technical problems
- propose solutions that make a product attractive, and explain how different features of a product affects the user/client
- propose and illustrate the exterior shape of a product
- implement a project plan
- describe and use a structured approach to product development
- apply established support methods in product realization
- apply earlier gained knowledge from the program Design and Product Realization

Course contents

The course will include a number of lectures and exercises tailored to the project work in the course. Methods in product realization are handled and some aspects with regard to the functioning of delivery systems, production or industrial design will be addressed. The focus of this course is on a product realization project where the student uses theoretical elements from previous courses in real cases.

Disposition

The course will include teaching elements applying project planning, structured approach and support methods in product realization. This is then implemented in the product realization project.

The students are divided in groups of 5-6 persons. The groups are given a commitment for which the result is presented in the end of the course. Examination includes the project as well as a written exam.

Course literature

Anges vid kursstart.

Examination

- PRO1 - Project, 6.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Written examination, 3.0 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.

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.