



MF1038 Design and Product Realization, Form and Function

6.0 credits

Design och produktframtagning, form och funktion

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 MF1038 valid from Autumn 2008

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Least 15 credits and

CDEPR/P: MF1011/4F1011/, MF1037

Compulsory for

CDEPR2

Language of instruction

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

Intended learning outcomes

After accomplished course you shall be able to

- analyse a product regarding function, solution and properties as well as colour, form and usability
- describe and motivate product design,
- analyse components in a product in order to identify functional carriers,
- with sketches and models visualise and presents ideas and products.

Course contents

The course focuses products functions and how these are realized by technical components, shapes and colors. The course includes the following: function analysis, product semantics, form and structure variation, product symbols, component analysis (shafts, bearings and clutches, etc.), coloring and sketching.

Disposition

Period 1, 2

Lectures 30h

Tutorials 36h

Laboration 14h

Workshop 12h

Seminars 8h

Course literature

Design for product understanding, by Rune Monö (ISBN 91-47-01105-X). Utdelade kompendium.

Examination

- LAB1 - Laboratory Work, 1.0 credits, grading scale: P, F

- PRO1 - Project, 3.0 credits, grading scale: P, F
- ÖVN1 - Assignments, 2.0 credits, grading scale: P, 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

(ÖVN1; 2hp) (LAB1; 1hp) and (PRO1; 3hp)

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.