



MF1040 Design and Product Realization Methodology 9.0 credits

Design och produktframtagning, metodik

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

Establishment

On 04/21/2020, the Dean of the ITM School has decided to establish this official course syllabus to apply from spring term 2020 (registration number M-2020-0718).

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

MF1061 Introduction to Design and Product Realisation,
MF1062 Design and Product Realization,
MF1063 Materials in Design and Product Realisation,
MF1064 Modelling and Simulation in Design and Product Realization,
MF1039 Design and Product Realization, Components,
MG1016 Manufacturing Technology

Language of instruction

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

Intended learning outcomes

After passing the course, the student should be able to:

- Describe, apply and give an account of application of methods, processes and theoretical concepts in product realisation
- Suggest, give an account of and visualise function, configuration and form on a product
- Carry out and apply a simple project planning and be able to describe and apply a structured working method in product realisation
- Apply previously acquired knowledge in design visualisation, CAD, dimensioning, choice of material and production.

Course contents

The emphasis in the course lies on a product realisation project and the teaching focus on methods and tools for the different tasks in such a project. The knowledge that is received in the course should together with previously acquired knowledge from the education be applied in the project. The project will be based in a real problem, and function, form and manufacturing aspects should be observed.

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.

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

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.