



MF1015 Product Realization

12.0 credits

Produktframtagning

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

Establishment

Course syllabus for MF1015 valid from Autumn 2011

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Reached at least 30 credits and the courses SD1000/4B1052, SG1130/5C1130, DN1212/2D1212

Language of instruction

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

Intended learning outcomes

After completing the course, students shall be able to:

- understand function and be able to dimension some common machine elements.
- be able to choose the appropriate standard components and common construction materials.
- be able to analyze and simulate the machine components from a system perspective.
- be able to collaborate on technical problem solving in an engineering way.
- be able to use 3D CAD and modeling of parts and make summaries
- be able to describe the most common activities in the product development process and apply them from idea to concept
- be able to present results from completed projects information in writing and orally.

Course contents

This course includes some of the most common machine elements, design aspects, project work and CAD.

Disposition

Period 1, 2

Lectures 44h

Tutorials 52h

Laborations 10h

Course literature

Olsson, K-O., Maskinelement

Maskinelement Handbok, Maskinkonstruktion, KTH

SKF-katalog

(All in Swedish)

Examination

- ÖVN1 - Assignments, 3.0 credits, grading scale: P, F
- PRO1 - Project, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 4.5 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.