



MF1036 Machine Components and CAD 7.5 credits

Maskinkomponenter och CAD

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

Establishment

Course syllabus for MF1036 valid from Autumn 2011

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

SG1109/5C1103 , SF1633/5B1230 , DD1312/2D1312

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 the function and be able to dimension some common machine elements
- Able to choose appropriate standard components and common construction materials
- Able to analyze machine components from a system perspective
- Be able to collaborate on technical problem solving in an engineering way
- Able to use CAD, modeling parts and make summaries

Course contents

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

Course literature

Olsson, K-O., Maskinelement
Maskinelement Handbok, Maskinkonstruktion, KTH
SKF-katalog
All literature in Swedish.

Examination

- ÖVN1 - Assignments, 3.0 credits, grading scale: P, 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.

Other requirements for final grade

Handed in exercises (INL1;3 hp) and written exam (TEN1;4,5 hp).

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.