



MF1044 Machine Components

6.0 credits

Maskinkomponenter

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 MF1044 valid from Spring 2020

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

SG1130, Mechanics I; SG1140 Mechanics II; SE1020 eller SE1010, Solid Mechanics; Basic Knowledge i CAD equivalent to MJ1103 Introduction to Mechanical Engineering/MF1001 Mechanical Engineering, introductory course

Language of instruction

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

Intended learning outcomes

After completing the courses the students will

- 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 machine components from a system perspective.
- Be able to collaborate on technical problem solving in an engineering way.

Course contents

The course covers some common machine elements and design aspects.

Course literature

Maskinelement, Mägi M., Melkersson K., Evertsson M., Studentlitteratur, ISBN:9789144109053

Maskinelement Handbok, Maskinkonstruktion, KTH

SKF-katalog

Examination

- INL2 - Hand in Tasks, 2.0 credits, grading scale: P, F
- TEN2 - Written examination, 4.0 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.