



MG2010 Modern Industrial Metrology 6.0 credits

Modern industriell mätteknik

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 MG2010 valid from Spring 2024

Grading scale

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

Education cycle

Second cycle

Main field of study

Technology

Specific prerequisites

Students admitted to Engineering programmes (five-year) or Master's programmes (two-year) that has completed one of the courses MG1000, MG1016, MG1026 or MG2104 or have equivalent prior knowledge in manufacturing technology.

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 with a passing grade the student should be able to:

Course contents

- The role of the metrology in the production process
- Statistics for handling of measurement data
- Tolerances and how they are connected to measurement of machined parts
- Mechanical and optical systems for dimension measurements
- Vision systems and image processing

Examination

- LABA - Laboratory work, 3.0 credits, grading scale: P, F
- PROA - Project work, 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.

Other requirements for final grade

Attendance at at least 70% of the lectures in the course (10 of 14)

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.