



MG1018 Production Automation 7.5 credits

Produktionsautomatisering

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

Establishment

Course syllabus for MG1018 valid from Spring 2009

Grading scale

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

Education cycle

First cycle

Main field of study

Mechanical Engineering, Technology

Specific prerequisites

CINEK3IPI or I3 IPI

For single course students:

General admission requirements including documented proficiency in Swedish B and English B or equivalent.

Language of instruction

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

Intended learning outcomes

After having passed this course the students should have:

- knowledge of preconditions for production automation
- knowledge of components and how they are used to form automated systems for manufacturing and assembly

Course contents

Preconditions for manufacturing automation in workshops, principles for and qualities by automated machine tools and robots, NC-technology, adaptive control, FMS, computer communication, simulation, monitoring, maintenance, human factors.

Course literature

Course compendium

Examination

- ÖVN1 - Exercises, 1.5 credits, grading scale: P, F
- TEN1 - Examination, 2.2 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory Work, 3.8 credits, grading scale: P, 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

Exercises (ÖVN1; 1,5 credits), Laboratory work (LAB1; 3,8 credits), Written examination (TEN1; 2,2 credits)

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.