MG2024 Manufacturing Systems and Automation 6.0 credits

Produktionssystem och automatisering

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

Establishment

Course syllabus for MG2024 valid from Autumn 2007

Grading scale

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

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

Teknikbas K.

Language of instruction

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

Intended learning outcomes

To give knowledge of automation problems, components, principles, sequential control and programmable logic controllers.

Course contents

Automation with emphasis on logic control, PLC (Programmable Logic Controller), fix and flexible equipment, manufacturing systems, accuracy reliability, maintenance. Exercises deal with logic control, PLC and industrial robots.

Course literature

Course compendium (available at the Department of Manufacturing Systems).

Examination

- TEN1 - Examination, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory work, 3.0 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

Written exam (TEN1; 3 credits), passed laboratory work (LAB1; 3 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.