ML2200 Manufacturing Process, Intermediate Course 2 7.5 credits

Produktionsteknik, fortsättningskurs 2

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 ML2200 valid from Autumn 2012

Grading scale

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

Education cycle

Second cycle

Main field of study

Specific prerequisites

Knowledge corresponding to HM1000 (Engineering Materials and Production 1), HM1003 (Engineering Materials and Production 2) and HM1016 (Manufacturing Process, Intermediate Course 1)

Language of instruction

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

Intended learning outcomes

After the course the student will be able to:

- Use modern production equipment,
- Participate in the investment process of new equipment and new production systems
- Applying different production philosophies, such as "Lean production, Just in time
- Apply the production technology, quality technology and logistics used in earlier courses
- Build and customize computer-based simulation models for production simulation. Modify the simulation models to improve flows of the production

Course contents

- Automated manufacturing and assembly
- Production philosophies, Lean production, SMED, JIT etc.
- Exercises in process simulation

Disposition

- Lectures
- Compulsory project work
- Compulsory attendance on company visits
- Compulsory attendance at exercises
- Compulsory assignments

Course literature

Meddelas senast 1 månad före kursstart

Examination

- TEN1 - Written examination, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN1 - Exercises, 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.

Other requirements for final grade

* Approved individual exercises (ÖVN1; 3,0 ECTS credits), P/F grading scale

* Approved individual written exam (TEN1; 4,5 ECTS credits), A-E grading scale

Criteria for final grade are based on examination and is announced at the start of the course.

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.