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 2015

Grading scale

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

Education cycle

Second cycle

Main field of study

Specific prerequisites

ML1200 Engineering Materials and Production, General Course, HM1016 Manufacturing Process, Intermediate Course 1 and ML1106 Factory Design, or the equivalent

Language of instruction

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

Intended learning outcomes

On completion of the course, the student should be able to:

- apply knowledge about production techniques acquired in earlier courses
- participate in design, evaluation and start of operations of a workshop
- account for the principles behind maintenance, maintainability and operational reliability
- analyse and summarise production engineering literature
- carry out a calculation of the manufacturing cost for production engineering equipment
- apply certain production philosophies in practical laboratory sessions if scheduled
- build computer-based simulation models for production simulation and modify these models to improve production flow

Course contents

- Design, evaluation and start of operations of workshops
- Maintenance, maintainability and operational reliability
- Production philosophy
- Discrete event simulation

Disposition

- Lectures
- Compulsory group assignments
- Compulsory attendance at exercises, laboratory sessions, seminars and presentations
- Compulsory attendance at study visits (if scheduled)

Course literature

Meddelas vid 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

The final grade is based on the written examination result

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.