



HM108L Manufacturing Processes for Design 7.5 credits

Produktionsteknik för design

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

Establishment

Course syllabus for HM108L valid from Spring 2013

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Knowledge corresponding to requirements to the programme for Ekonomi, Teknik och Design at Södertörns högskola and HM105L Material- och produktionsteknik basic course.

Language of instruction

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

Intended learning outcomes

The main purpose of the course is that the student will have basic knowledge of common industrial manufacturing processes, focusing on aspects of design and economy. The student will have knowledge of industrial quality systems, production management and quality management in use in production industry.

After the course the student will be able to:

- Describe production processes described during the course
- Describe quality systems, systems for quality management and production management systems
- Suggest product development, product improvement and product adaptation to production methods.

Course contents

Ductile and shearing machining, stock removal, jointing methods, techniques of measurement, production theories, quality systems and production management. Furthermore, a group assignment is included, where a specific product is to be developed or improved and finally being adapted to existing production methods.

Examination

- TEN1 - Written examination, 7.5 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.

If the course is discontinued, students may request to be examined during the following two academic years.

Examination, 7,5 cr, grade scale: A,B,C,D,E,FX,F

Other requirements for final grade

Passed written examination

Approved teamwork

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.