MH2278 Materials Forming 6.0 credits

Materials Forming

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

Establishment

Course syllabus for MH2278 valid from Autumn 2007

Grading scale

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

Education cycle

Second cycle

Main field of study

Specific prerequisites

Physics, chemistry and general materials science.

Language of instruction

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

Intended learning outcomes

After completed course the student will have knowledge of

- Forming methods such as rolling, extrusion, forging and drawing
- Definitions of terms and rules for materials forming
- Methods for analysis of specimen and tool material, friction, wear, lubrication, pressures and material flow
- Simulation and modelling

Course contents

Review of forming methods such as forging, drawing. Definitions of terms and rules for materials forming. Analysis of tool material, wear, lubrication, pressures and material flow. Simulation and modelling.

Course literature

Given during the course.

Examination

- HEM1 - Homeassignment, 1.5 credits, grading scale: P, F
- DAT1 - Computerassignment, 1.5 credits, grading scale: P, F
- TEN1 - Examination, 3.0 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.

Other requirements for final grade

Home assignments (HEM1; 1,5 cr)
Exam (TEN1; 3 cr)
Computer assignment (DAT1; 1,5 cr)

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.