MH2504 Industrial Metallurgical Processes 6.0 credits

Industriella metallurgiska processer

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

Establishment

Course syllabus for MH2504 valid from Spring 2009

Grading scale

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

Education cycle

Second cycle

Main field of study

Specific prerequisites

MH2043 Advanced Course in Materials Design or
MH2044 Advanced Course in Process Sciences and

Language of instruction

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

Intended learning outcomes

The aim of this course is to give the students the ability to utilize their knowledge to be able to simulate a real process. If the students lack in competence in some areas they need to study this by themselves. This course will also give the students experience in working with industry.

Course contents

The students are divided into groups. Thereafter, a real industrial problem is assigned them. The problem can be in different areas; process and physical metallurgy, process controll, heat treatment, combustion, environment, casting, etc. To solve the problem the students should be able to use their thermodynamic and kinetic knowledge. The student will need to do a literature survey as well as travelling to the metal industry to be able to understand and solve the problem. If specific data are needed measurements can be made at the industry or at the department's lab. Each group will get a group of advisors consisting of researchers from the Department as well as from the industry. The report will be presented orally at a seminar.

Examination

- PRO1 - Project, 6.0 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.

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.