



MH2352 Physics and Chemistry of Modern Materials 6.0 credits

Moderna materials fysik och kemi

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

Establishment

Course syllabus for MH2352 valid from Autumn 2007

Grading scale

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

Education cycle

Second cycle

Main field of study

Specific prerequisites

MH1016 Materials Physics or equivalent and or a BSc exam

Language of instruction

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

Intended learning outcomes

To provide a coherent approach to the physics and chemistry of functional materials.

Course contents

Synthesis and manufacture of functional materials. The importance of structure and defects, electrons and their dynamics, magnetism, optical properties of functional materials.

Course literature

The Physics and Chemistry of Solids, S. Elliot, Wiley Publications, 1998
Distributed material

Examination

- SEM1 - Seminars, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- PRO1 - Project, 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.

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.