



FSE3421 Mechanical Behaviour of Materials 12.0 credits

Materials mekaniska egenskaper

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 FSE3421 valid from Spring 2018

Grading scale

Education cycle

Third cycle

Specific prerequisites

Basic course in solid mechanics and advanced course in material mechanics.

Language of instruction

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

Intended learning outcomes

After completing the course the student shall understand and be able to give a detailed account on the mechanical properties of a specific class of materials relevant for the PhD studies of the student.

Course contents

The mechanical properties of a specific class of materials will be studied in detail with emphasis on constitutive modelling.

Disposition

Self-study course.

Course literature

Classical articles and books within the subject.

Examination

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

Approved written report.

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.