



SE1003 Project Course in Solid Mechanics 15.0 credits

Fördjupningsarbete i hållfasthetsteknik

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

Establishment

Course syllabus for SE1003 valid from Autumn 2007

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

The course content requires all compulsory courses of the first five semesters of the engineering programs BD, M, P or T. Furthermore, the course requires parallel studies of SE1025 FEM for engineering applications.

Language of instruction

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

Intended learning outcomes

After the course, the participant should be able to

- apply knowledge and skills acquired in previous courses in solution of solid mechanics related problems
- formulate a technical problem and apply methodology from solid mechanics to find and estimate the value of solutions to the problem
- use individual learning methods for consolidation and widening of his/her knowledge in solid mechanics
- present solutions to an engineering problem in a written report with demands for content, structure and use of language (comparable to the TNC norms)
- identify and discuss ethical problems related to the engineering profession
- show a professional behaviour when presenting his/her own work and when criticizing the work of others
- use the basic terminology and tools for career planning
- appreciate the foundation for technology based entrepreneurship

Course contents

This course contains a major project work, advancements in solid mechanics and practise of some general engineering attributes.

Course literature

See course program.

Examination

- PRO1 - Project, 15.0 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

Project work (PROJ; 15 university credits)

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.