



SG2010 Project Course in Engineering Mechanics 15.0 credits

Projektkurs i teknisk mekanik

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

The course syllabus is valid from Spring 2022 according to the school principal's decision: S-2022-0529 Decision date: 2022-02-24

Grading scale

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

Education cycle

Second cycle

Main field of study

Technology

Specific prerequisites

English B / English 6

The courses SE1025 FEM for engineering applications or SG1220 Fluid mechanics for engineers or similar courses on finite elements or fluid mechanics.

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:

1. Apply knowledge and skills from previous courses, in particular in Engineering Mechanics.
2. Formulate and specify problems in engineering mechanics and apply different methods of solution to these as well as judge the relevance of different methods.
3. Study independently with the aim of consolidating and deepening of already acquired knowledge in engineering mechanics.
4. Present solutions of complex and basic engineering mechanics problems in a written technical report with demands on content, structure and use of language.
5. Present the work orally in a professional way.
6. Explain the basics of some general engineering attributes such as ethics, career planning and entrepreneurship.

Course contents

Project that is conducted individually or in group of maximum two students. The project should focus on analysis and simulation of problems in engineering mechanics.

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.

Project examination: PRO1 - Project, 15.0 credits, grade scale: A, B, C, D, E, FX, F

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.