



SG1010 Project Course in Mechanics 15.0 credits

Fördjupningsarbete i 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

Course syllabus valid from Fall 2022

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

The course assumes knowledge of 10 points of mechanics in the first and second years as well as a course in elementary 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:

Apply knowledge and skills from previous courses, above all in Mechanics and Fluid Mechanics

Formulate and specify problems in mechanics and apply different methods of solution to these as well as judge the relevance of different methods.

Study independently with the aim of consolidating and deepening of already acquired knowledge of mechanics.

Present solutions of engineering and basic mechanics problems in a written technical report with demands on content, structure and use of language.

Present the work orally in a professional way.

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. Communication skills and other general engineering skills. Various areas of mechanics and fluid 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.

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.