SG1301 Mechanics, Addition Course 3.0 credits

Mekanik, påbyggnadskurs

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

Establishment

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

After passing the course the student should know how to:

- Identify and define given types of force systems,
- Analyze given force systems and simplify them to optimal form.
- Calculate the center of mass of systems of particles and rigid bodies.
- Calculate forces and positions of equilibrium for a mechanical system at rest.
- Analyze and write down mathematical model for problems in statics with mathematical and numerical methods and critically scrutinize the results.
- Present, in written and oral form, solutions of problems related to the course content.

Course contents

Examination

- INL1 - Assignments, 1.0 credits, grading scale: P, F
- TEN2 - Examination, 2.0 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.