MG1203 Applied Mechanics 6.0 credits

Tillämpad 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 official course syllabus is valid from the fall semester 2024 in accordance with the decision by the Director of First and Second Cycle Education on ITM School: M-2024-0503. Date of decision: 2024-05-23

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

General entry requirements.

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 be able to:

1. describe concepts in statics and their application for a given problem

2. describe concepts in dynamics and their application for a given problem

3. identify a concrete mechanical problem and choose appropriate solution models based on a problem description

4. treat mechanical problems and critically analyse the importance of the result

Course contents

The aim of this course is that the student should be able to understand and process mechanical problems in a systematic way and then apply relevant tools to retrieve solutions to these problems.

Examination

- INL1 - Homework assignment, 2.0 credits, grading scale: P, F
- KONA - Partial exam, 2.0 credits, grading scale: P, F
- KONB - Partial exam, 2.0 credits, grading scale: P, F
- TENA - Written exam, - 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.

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.