SG2128 Research Methodology in Engineering Mechanics 3.0 credits

Forskningsmetodik i teknisk mekanik

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

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

P, F

Education cycle

Second cycle

Main field of study

Engineering Physics

Specific prerequisites

English B / English 6

Higher studies in engineering 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 students should be familiar with a umber of concepts from the research methodologies that are used in mechanics. The student should also be able to identify which methodologies that have been applied in a given published work and report in writing about this. The student should also be able to identify deficiencies in the methodology if such are present.

Course contents

Some research supervisors from different areas of mechanics lecture on which methods are central in their respective area. Theory, numerical methods, and simulations should all be represented. Published works are studied with special attention to methodology.

Examination

• PRO1 - Project, 3.0 credits, grading scale: P, 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.

OLral presentation of written essay.

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.