



FMF3018 Gear Technology 6.0 credits

Kuggteknik

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 for FMF3018 valid from Spring 2021

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Admitted to PhD studies

General course in tribology, mechanics and materials technology

Language of instruction

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

Intended learning outcomes

After completed the course the student should be able to:

- understand the basics of gear geometry, gear design and gear manufacturing
- apply the theories to cylindrical and planetary gear drives

Course contents

- Gear geometry
- Integrity of gears
- Gear manufacturing and measuring
- Cylindrical gear drive design
- Gear lubrication
- Planetary gear drive designs

Examination

- INL1 - Assignment, 6.0 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.

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.