FAF3604 Soil Mechanics 7.5 credits

Jordmekanik

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

Establishment

Course syllabus for FAF3604 valid from Spring 2019

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Master of Science in Civil Engineering or similar, with an undergraduate course in soil 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 student shall

- have a deep understanding of both the principles of soil mechanics and the fundamentals of how they are sustainably applied in engineering practice;
- be able to describe the most significant engineering properties of soils and describe the factors that affect these properties;
- be capable of choosing and performing soil mechanical analyses that provide long-term sustainable geotechnical structures, as well as understanding the limitations of the analysis procedures.

Course contents

The course gives a comprehensive view of the principles of soil mechanics that affects foundations of structures in soil. Particularly emphasis is put on strength and deformation properties of soil.

Course literature

The course literature is announced at the beginning of each course round.

Examination

- PRO1 - Project work, 1.5 credits, grading scale: P, F
- TEN1 - Oral examination, 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.

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.