AF1737 Building Technology 1 7.5 credits

Byggteknik 1

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

Establishment

The course syllabus is valid from Autumn 2024 according to decision of Director of First and Second Cycle Education: HS-2025-0582, 3.2.2Decision date: 2025-03-17

Grading scale

P, F

Education cycle

First cycle

Main field of study

The Built Environment, 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 completing the course the student should be able to:

- explain basic concepts and terms in the field of building technology
- describe different construction engineering solutions
- describe the construction process
- describe the connection between society's sustainability goals and the building process
- describe building styles from the 19th century onwards
- produce drawings with the help of software
- interpret drawings for different disciplines.

Course contents

- Introduction to building technology and review of building technology solutions
- Basic aspects of ground surface layers, shafts and filling
- Review of the construction process: how a construction project is managed from idea to a finished building, including regulatory requirements, society and industry rules
- Architectural history
- Project methodology and practical project work
- Drawing techniques: practical work in CAD design and reading drawings

Examination

- PROA - Project assignments, 2.5 credits, grading scale: P, F
- TENA - Written exam, 2.5 credits, grading scale: P, F
- ÖVN1 - Exercises, 2.5 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.