AF2401 Building Technology, Advanced Course 7.5 credits

Byggnadsteknik, fortsättningskurs

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

Establishment

Course syllabus for AF2401 valid from Autumn 2021

Grading scale

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

Education cycle

Second cycle

Main field of study

The Built Environment

Specific prerequisites

Documented knowledge in Building Materials and Building Physics, 15 ECTS corresponding to the content in courses AF1301 and AF1402.

Eng B/6 according to the Swedish upper secondary school system.

Language of instruction

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

Intended learning outcomes

After the course is completed the student should:

- be able to formulate building physical problems and to do in-depth analysis with mathematical tools and measurements
- have insight into the devlopment and evaluation of new building technology as well as the “state of the art” research within the field.

Course contents

- Problem based analysis of different constructions. Technical assessment.
- Engineering design and the use of building physics. Tools for calculation.
- Industrial construction, innovation, development.
- Research in the field of building technology.

Examination

- ÖVN1 - Exercises, 4.5 credits, grading scale: P, F
- TEN1 - Examination, 3.0 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.

If the course is discontinued, students may request to be examined during the following two academic years.

Other requirements for final grade

Oral examination (TEN1; 3 cr)
Approved exercises (ÖVN1; 4,5 cr)

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.