FAF3403 Building Physics 4.5 credits

Byggnadsfysik

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

Establishment

Course syllabus for FAF3403 valid from Autumn 2019

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Master of Science in Civil Engineering or similar, with an undergraduate course in building technology.

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 deeper understanding of both the principles of building physics and the fundamentals of how they are sustainably applied in engineering practice;
- be able to describe the most significant engineering properties of building envelopes and describe the factors that affect these properties;
- be capable of choosing and performing building physical analyses that provide long-term sustainable building structures, as well as understanding the limitations of the analysis procedures.

Course contents

The course gives a comprehensive view of the principles of building technology that influence buildings. Particular emphasis is put on heat and moisture transport.

Examination

- RAP1 - Project report, 3.0 credits, grading scale: P, F
- TEN1 - Oral exam, 1.5 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.