



FAF3505 Climate Technology, Equipment 7.5 credits

Klimatteknik, komponenter

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

Establishment

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Master of Science in Civil and Architectural Engineering or similar, with an undergraduate course in indoor environment/energy systems/building services technologies or equivalent.

Language of instruction

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

Intended learning outcomes

The objective of this course is to provide a deeper understanding of the design and function of components/equipment in building service and energy systems used for indoor environmental management in buildings with key focus on equipment used for ventilation,

heating/cooling, lighting and management of the acoustic environment. Relevant issues are discussed with the over-arching goal of achieving high indoor environmental quality, high user well-being and satisfaction, high energy efficiency, as well as optimal overall building performance.

Course contents

Climate technology system components/equipment are discussed in the context of:

- Air handling/ventilation
- Heating/cooling
- Lighting
- Management of the acoustic environment
- Energy systems
- Building environmental management (BEMS)
- Building performance measurement and assessment
- User-building interaction

Examination

- UPP1 - Report, 5.0 credits, grading scale: P, F
- TEN1 - Oral exam, 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.