AF2403 Building Damages 7.5 credits

Byggskador

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

Establishment

Course syllabus for AF2403 valid from Autumn 2020

Grading scale

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

Education cycle

Second cycle

Main field of study

The Built Environment

Specific prerequisites

For students not registered on a KTH programme:

150 university credits (hp) including courses in building materials and building physics equivalent to at least 2·times 7,5 ECTS points. and documented proficiency in English corresponding to English B or equivalent (TOEFL, IELTS e g).

For students registered on a KTH programme:

AF1301 Byggmaterial grundkurs

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 will have good understanding about what is meant by building damages.

The student shall be able to illustrate different typical indications relating to building damages, explain the mechanisms behind them and also propose different measures for solving the problems.

In this context it is also included the ability to evaluate the risk for damage for different building constructions.

Course contents

The course will give basic and applied training about the different processes that cause damage to buildings and building components. It also points out important methods for repair, restoration and for modifications to avoid future problems.

The lectures will especially highlight the following items:

What is really ment by building damages.

Sick-building investigations

Things to know and things to use, for investigation of damages on buildings

Damage from water, problems and measures to avoid them

Emissions in buildings and health

Damage on the exterior of buildings

Radon, the problem and how to avoid it.

Examination

- ARB1 - Project Task, 4.0 credits, grading scale: P, F
- TEN1 - Exam, 3.5 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.

Project and exam (oral or written)

Other requirements for final grade

Passed project task

Passed oral or written exam

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.