AF2301 Building Materials, Advanced Course 7.5 credits

Byggnadsmaterial, fortsättningskurs

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

Establishment

Course syllabus for AF2301 valid from Autumn 2007

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 the course AF1301 Byggmaterial grundkurs or equivalent and documented proficiency in Swedish corresponding to Swedish B and English corresponding to English A.

For students registered on a KTH programme:

AF1301 Byggnadsmaterial grundkurs.

Language of instruction

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

Intended learning outcomes

The course will give a deeper understanding of the detoriation mechanisms of building materials and describe some methods for service life prediction.

Course contents

- Physical-, chemical- and biological detoriation. Detoriation by radiation. Test methods.
- Methodology for service life prediction.
- Visits at research institutes and industries in the building materials area.
- Seminars.

Course literature

- Einar Mattsson. Elektrokemi och korrosionslära. Bulletin 100. Korrosionsinstitutet. 1992. In Swedish.
- Print-outs

Examination

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

Other requirements for final grade

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