AE1101 Natural Resources Theory 6.0 credits

Naturresursteori

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

Establishment

Course syllabus for AE1101 valid from Autumn 2007

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

AI1137 or AI1136 Introduction to the Planning and Building Process, SF1617 Mathematical Methods II besides SH1010 Physics for the built environment

Language of instruction

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

Intended learning outcomes

The course aims to provide increased theoretical knowledge on natural resources: their nature and scarcity. Bioelement cycling and energy flow, with emphasis on water and waste cycling in society, is the main focus of the course.

Course contents

Natural resources theory. Biogeochemical cycles. Resource recycling. Water and wastewater handling. Strategic natural resource planning. Material flow in the building sector. Methods for evaluation of sustainable solutions during and after exploitation projects. Risks of reusing and recycling materials.

Examination

- FÄL1 - Excursion, 0.0 credits, grading scale: P, F
- ÖVN1 - Exercises, 1.5 credits, grading scale: P, F
- PRO1 - Project, 1.5 credits, grading scale: A, B, C, D, E, FX, 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

One written examination (TEN1; 3 cr), approved exercises (ÖVN1; 1, cr), project report (PRO 1; 1,5 cr) and excursion (FÄL1; 0c).

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.