AE1501 Environmental System Analysis for Built Environment 7.5 credits

Miljösystemanalys för samhällsbyggnad

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

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for AE1501 valid from Autumn 2007

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Material and Water Chemistry

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:

- create understanding of theories and terminology of Environmental System Analysis
- provide knowledge regarding a selection of tools in Environmental System Analysis and their connection to different situations in decision-making.
- increase the students awareness and understanding of methods that can be applied to prevent or minimize environmental effects and in that way contribute to a sustainable development.

Course contents

Theories and terminology of Environmental System Analysis. Different tools in Environmental System Analysis for example: Environmental Impact Assessment, Multi Criteria Analysis, Risk assessment, Life Cycle Assessment, Material Flow Analysis and Cost Benefit Analysis. Further, the application of various tools in different types of decision-making situations.

Course literature

Will be announced two weeks before start.

Examination

- SEM1 - Seminars, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN1 - Assignment, 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.

Other requirements for final grade

One written examination (TEN1; 4,5 cr) and the completion of seminars (SEM1; 1,5 cr) and Exercise (ÖVN1; 1,5 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.