



AL2300 Natural Resources Management Tools 7.5 credits

Verktyg för naturresursförvaltning

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 AL2300 valid from Spring 2017

Grading scale

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

Education cycle

Second cycle

Main field of study

Built Environment, Environmental Engineering

Specific prerequisites

Bachelor's degree in the field of civil engineering, environmental engineering or another subject with clear relevance for the course, of at least 180 higher education credits or the equivalent. Furthermore is required: Environmental Data, 7.5 credits (course AE2503), or the equivalent. Proficiency in English (English B or equivalent).

Language of instruction

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

Intended learning outcomes

On completion of the course, the participants should be able to:

- use Geographic Information Systems (GIS) for providing management relevant information about natural resources and environmental issues
- review and give examples of other technologies and tools to increase accessibility and availability of environmental information, such as indicators, and
- understand the significance of data and environmental information in planning, management and other decision-making and policy-making processes, for solving environmental problems and for sustainable use of natural resources.

Course contents

The course deals with various aspects related to the broad issue of environmental information and data for decision-making in the context of environmental and natural resources management. The course covers different aspects related to provision of new data and information (increasing information density) by means of Geographic Information systems (GIS) and expert systems and multi-criteria evaluation, and means and tools, such as indicators and Internet to communicate new and existing information to various types of end users, ranging from the public via scientists to decision-makers (increasing information accessibility).

The course will devote much time and emphasis to GIS through a number of compulsory exercises that demonstrate how this particular tool together with other related tools can be applied to derive new, relevant information within various planning and management contexts.

Course literature

Annonseras på kursens hemsida före kursstart.

Examination

- TEN1 - Examination, 4.0 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN1 - Exercises, 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.

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.