



AI2518 Infrastructure - Responsibility and Financing 7.5 credits

Infrastruktur - ansvar och finansiering

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

Establishment

Course syllabus for AI2518 valid from Autumn 2019

Grading scale

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

Education cycle

Second cycle

Main field of study

The Built Environment

Specific prerequisites

Same eligibility as the Master's Programme, Real Estate and Construction Management.

Language of instruction

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

Intended learning outcomes

The general aim of the course is that the participants should obtain advanced knowledge of problems and principal solutions that concern who that should be responsible for building and operation of various types of infrastructure facilities. A central question is also, how different facilities should be financed.

These questions are treated in view of how Sweden has solved the responsibility and funding of different facilities. It also intends which decisions about plans and permits that are required for construction of infrastructure as well as the importance of the Environmental Code's regulations for a sustainable use of land and water resources.

This implies that the course participants after completing the course should be able to:

- Account for alternative systems for responsibility for building and management of infrastructure.
- Account for alternative designs of system for funding and distribution of infrastructure costs for construction and operation.
- Compare and evaluate these types of systems for responsibility and funding, based on inter alia different perspectives of just distribution.
- Describe the basic forms for responsibilities, funding, planning/permits that applies in Sweden to achieve a sustainable societal development.

Course contents

The course covers- based on the technical design and function of different infrastructure facilities – alternative ways of responsibility for building, administration and funding. The course focus primarily on various types of transport systems, power supply, water, drain and telecommunications etc, are covered in the course, but cover also preservation of buildings and nature. The course constitutes a specialisation and expansion of the subject content in earlier courses.

The teaching consists of lectures and seminars

Disposition

The course is given, provided that at least 5 students thank yes to offered location.

Course literature

Reading list is informed in connection with the start of the course.

Examination

- SEM1 - Seminar, 2.0 credits, grading scale: P, F

- INL1 - Assignment, 2.0 credits, grading scale: P, F
- TEN1 - Written 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.

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.