AI2809 Construction Management 7.5 credits

Ledning av byggprojekt

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

Establishment

The course syllabus is valid from Autumn 2025 according to decision of the Director of First and Second Cycle Education: HS 2025-0745, 3.2.2Decision date: 2025-04-08

Grading scale

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

Education cycle

Second cycle

Main field of study

The Built Environment

Specific prerequisites

Eligibility to the master programme in Real Estate and Construction Management. AI2810 Project Communication or equivalent.

Language of instruction

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

Intended learning outcomes

The aim of the course is to prepare students for further studies on advanced level within real estate and construction, as well as for planning, managing and participating in construction processes. After the course, the students should be able to:

- Based on established research in the field, describe, analyse, and select strategies and methods for procuring, organising and managing construction projects, especially for the production phase, and considering goals for sustainable development.

- Search, compile and reference research-based literature in the field of construction management.

Course contents

The course covers the management and planning of construction projects during later design stages, procurement, production on site and handover. The following aspects are covered:

- Construction procurement strategies

- Construction contracts, also international

- Planning and management of construction processes, including risk, cost, improvement, industrialization, supply chains, health and safety, logistics and handover.

- Managing people, culture and relationships

- Social and environmental sustainability in construction

Examination

- ÖVN1 - Assignment, 2.5 credits, grading scale: P, F
- TEN1 - Written Assignment, 5.0 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.

Examination is time-limited.

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.