HS1015 Construction Management 7.5 credits

Byggstyrning

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 HS1015 valid from Autumn 2016

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Students in year 3 of the Bachelor of Science in Engineering programme Constructional Engineering and Design

AF1722 The Building Process or HS1006 The Building Process
AF1723 Building Logistics and Risk Management
AF1730 Building Information Modeling

AF1740 Economics and organization
or equivalent courses

Students in year 2 of the Higher Education Diploma programme Construction Management

AF1742 Business Economics and Quality Systems
HS1731 The Building Process
Approved project assignment (PROB, 3.0 credits) in HS1725 Building Production and Leadership
or equivalent courses

Language of instruction

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

Intended learning outcomes

Upon completion of the course, the student shall be able to:

- Establish digital time and structural plans, calculate construction times, and determine critical lines
- Establish a workforce diagram and divide resources
- Calculate and determine unit times and capacities with the help of existing computer programmes
- Calculate material and work expenses
- Calculate operating costs and expenses for labour management
- Establish a tender summary and tender layout
- Perform financial reconciliations and prognoses
- Applying leadership and team development
- Apply basic contract law
- Draw up an APD plan as a planning tool

Course contents

The course covers the central elements of tender calculations:

- Time concepts
- Capacity estimations
- Resource division, and material and work cost calculations
- Calculation of operating costs

The preparation of tender summaries and the design and layout of tenders are also covered.

Disposition

The work takes the form of lectures, excercises and hand-in assignments.

Course literature

Johansson, Thomas: Kompendium i Byggstyrning
Johansson, Thomas: Exempelsamling i Entreprenadjuridik
Nordstrand, Uno: Byggstyrning
Allmänna bestämmelser, AB04

Examination

- TENA - Examination, 5.0 credits, grading scale: A, B, C, D, E, FX, F
- ÖVNA - Exercises, 2.5 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

To receive a final grade for this course, a passing grade on the submitted assignments as well as grade E or higher on the written examination are required.
Overall course grade is based on grading scale A-F.

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.