



Course syllabus

Faculty of Technology

Department of Building Technology

1BY006 Byggnadsproduktion 2, 7,5 högskolepoäng

Introduction to Construction Management 2, 7.5 credits

Main field of study

Civil Engineering

Subject Group

Building Technology

Level of classification

First Level

Progression

G1F

Date of Ratification

Approved 2009-07-24

Revised 2018-06-21 by Faculty of Technology. Change of prerequisites.

The course syllabus is valid from spring semester 2019

Prerequisites

82,5 credits within the programme Civil Engineering Programme, Building and Construction or Building Technology Programme with specialisation in Architectural Engineering which 7,5 credits Introduction to Construction Management (1BY005) and 7,5 credits mathematics courses within the program Mathematics for engineers, (1MA131) 7,5 credits, Calculus for engineers, (1MA132) 7,5 credits and/or Linear algebra for engineers, (1MA133) 7,5 credits or Computational Methods for Technical Applications (1MA112) 15 credits or similar.

Objectives

After completing the course the student is expected to have acquired basic knowledge of construction company production costing, procurement procedure and production control

including operations engineering, production methods and production engineering.

Content

The course contains the following elements:

Production engineering:

- work methods and construction machinery

Production costing:

- contract documents
- capacity and production data, the drawing up of bills of quantities and tender assessment

Production planning:

- production methods and production engineering
- production time schedule, machine plan and location drawing

Production control:

- construction start and procurement
- materials administration

Type of Instruction

The teaching consists of lectures, calculation exercises, tutorials and project work. The extent of the compulsory elements shown in schedule.

Examination

The course is assessed with the grades U, 3, 4 or 5.

The course is examined through a written exam of 5 credits with the grades U, 3,4 or 5. The project work at 2.5 credits is examined through written and oral presentations and assessed with the grades U, 3,4 or 5.

The grade obtained by weighing the various parts of the examination where the written exam weighs heaviest.

Course Evaluation

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed at the Faculty.

Required Reading and Additional Study Material

Required reading

Nordstrand, Uno Byggstyrning. 250 pages. (344)

Nordstrand, Uno Byggprocessen. 25 pages. (248)

Produktionsstyrning på bygget, häfte 1 och 2. 50 pages. (50)

Handledning i PlanCon och BidCon (Bygg) 80 pages. (80)

Johansson, Thomas Byggstyrning – planeringsteknik, compendium. 75 pages. (75)

Separate supplementary sheets and other material will be distributed during the course.