



*Course syllabus*

# Bygg- och anläggningsprocessen The Construction and Civil Engineering Process

**VBEA35, 7,5 credits, G1 (First Cycle)**

**Valid for:** 2023/24

**Faculty:** Faculty of Engineering, LTH

**Decided by:** PLED V

**Date of Decision:** 2023-03-21

## General Information

**Compulsory for:** IBYI3, IBYV2

**Language of instruction:** The course will be given in Swedish

## Aim

The purpose of the course is to provide the students with knowledge and understanding about actors, regulation and processes that needs to be considered in the planning, production and running of a facility. Furthermore the aim of the course is to give basic knowledge about methods and analysis needed in construction project management and knowledge about legislation and practices in Swedish construction law.

## Learning outcomes

*Knowledge and understanding*

For a passing grade the student must

- Describe the construction process and its different stages from a client perspective.
- Identify and define involved actors in different stages of the construction process.
- Describe rules and regulations affecting the construction process.
- Explain the environmental and circular processes in the construction process.
- Identify issues concerning health and safety in construction.
- Account for various kinds of construction contracts and delivery solutions.

- Account for issues concerning procurement, agreements, general conditions, public procurement laws and regulation.

#### *Competences and skills*

For a passing grade the student must

- Apply basic methods for planning, management and organization of construction projects.
- From given conditions be able to write and evaluate tendering documents and tender.

#### *Judgement and approach*

For a passing grade the student must

- Formulate and evaluate relevant aspects of the construction process from a managerial and legal perspective.

## Contents

The course intends to provide a orientation about thoses activities carried out in the construction process and deals with these issues from a client perspective. Deepened analysis is made in the stages of conceptual design, design and production, and in addition issues concerning health and safety and running and maintenance. Furthermore the course covers general legislative conditions and deepening understanding of construction law and construction procurement. The course is based on a number of lectures and excersises.

## Examination details

**Grading scale:** TH - (U,3,4,5) - (Fail, Three, Four, Five)

**Assessment:** Approved written examination and approved assignments. The exam will be a home exam with open books.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

## Admission

**The number of participants is limited to:** No

**The course overlaps following course/s:** VBEA20, VFR601, VBEA10

## Reading list

- Hansson, B m fl: Byggledning Projektering. Studentlitteratur AB, 2015, ISBN: 978-91-44-10572-7.

## Contact and other information

**Course coordinator:** Stefan Olander, stefan.olander@construction.lth.se

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**Course homepage:** <http://www.bekon.lth.se/utbildning/grundutbildning/>