



Faculty of Health, Science and Technology  
Construction Engineering

# Syllabus

## Construction Management 2

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| <b>Course Code:</b>                | BYGC16   |
| <b>Course Title:</b>               | Construction Management 2<br><i>Byggproduktion 2</i>                                     |
| <b>Credits:</b>                    | 7.5  |
| <b>Degree Level:</b>               | Undergraduate level  |
| <b>Progressive Specialisation:</b> | First cycle, has at least 60 credits in first-cycle course/s as entry requirements (G2F) |

**Major Field of Study:**  
BYA (Building Technology)

### Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2021-08-30, and is valid from the Spring semester 2022 at Karlstad University.

### Prerequisites

90 ECTS credits completed in the Building and Construction Engineering programme with a specialisation in house construction, including Construction Management I (7.5 ECTS credits), and Computer Aided Construction Design in a BIM Process (20 ECTS credits), or equivalent

### Learning Outcomes

The aim of the course is for students to acquire knowledge of the concepts used in legislation, rules, and circumstances that regulate a construction project when it comes to contract law, tender agreement, labour law, and so on. Students should also acquire knowledge of concrete class II and its properties in different states, as well as the rules for concrete casting, shuttering, and reinforcement.

Upon completion of the course, students should be able to:

- give an account of the rules and regulations pertaining to the various stages of the construction process,
- draw up a standard agreement for consultant and contract procurement,
- analyse and suggest solutions to disputes related to standard agreements for consultant and contract procurement,
- identify risks and assess probability for various risks and their impact on efficient production,
- give an account of key work environment issues and construction site safety,
- assess different construction logistic solutions from a production and environment perspective,
- give an account of and apply rules for concrete constructions class II, and
- write clear, comprehensible and well structured reports and give oral presentations with appropriate aids.

### **Content**

Instruction is in the form of lectures, exercises, seminars, field trips, and supervision in connection with exercises, group work, and projects.

The course covers the following:

- Contract law, standard agreement, branch regulations, legislation pertaining to the construction process
- Tender invitation, requirements from the perspective of the constructor, procurement and forms of procurement, procurement of sub-contractors and consultants, the Public Procurement Act
- Work environment requirements, the work environment rules that apply between clients and entrepreneurs, and work environment efforts on construction sites
- Risk identification, assessment, and management in terms of work environment
- Rules for concrete constructions class II

### **Reading List**

See separate document.

### **Examination**

Assessment is based on a written exam, a project examined through a written group report, and individual written hand-in assignments. Attendance is mandatory for guest lectures. Exercises and seminars are also assessed based on written hand-in assignments.

If students have a decision from Karlstad University entitling them to Targeted Study Support due to a documented disability, the examiner has the right to give such students an adapted examination or to examine them in a different manner.

### **Grades**

One of the grades Fail (U), Pass (3), Pass with Some Distinction (4), or Pass with Distinction (5) is awarded in the examination of the course.

### **Quality Assurance**

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

**Course Certificate**

A course certificate will be provided upon request.

**Additional information**

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.