

## **Construction Innovation and Change Management in the Built Environment** **7.5 credits**

Innovation och förändringsarbete inom den byggda miljön 7.5 hp

Second cycle

Main field: Construction Engineering with Specialisation in Renewable Energy, Second cycle, has only first-cycle course/s as entry requirements (AIN)

Syllabus is adopted by the Research and Education Board (2024-03-08) and is valid for students admitted for the autumn semester 2024.

### **Placement in the Academic System**

The course is included in Master's programme (120 credits) in Energy Smart Innovation in the Built Environment. The course is given as a single subject course.

### **Prerequisites and Conditions of Admission**

Bachelor's degree in Energy Engineering, Building Technology, Mechanical Engineering or the equivalent. Including courses of 7.5 credits within the field of Building Technology, and 7.5 credits Project Management. The degree must be equivalent to a Swedish högskoleingenjörsexamen and must have been awarded from an internationally recognised university. English 6. Exemption of the requirement in Swedish is granted.

### **Course Objectives**

The objective of this course is that the student gains knowledge about and understanding for the innovation and change management process in the built environment context.

Following successful completion of the course the student should:

#### *Knowledge and understanding*

- define contextual characteristics in the construction sector and the built environment and its effects on innovation
- describe implications and success factors for innovation and change in the construction sector and the built environment
- account for how the interaction between content, context and process influences innovation and change management processes in the construction sector and the built environment.

#### *Skills and ability*

- apply research on Innovation Management and change management in Construction and Change Management

- analyze Innovation and Change processes in the construction sector and the built environment

#### *Judgement and approach*

- problematize the built environment and how its context can be managed for a better outcome of the innovation and change management processes
- assess how context, content and the innovation and change management process interacts and influences the outcome of innovation and change management processes in the built environment
- assess, question and evaluate prerequisites for innovation and change management in the built environment, for example from a geographical, political and gender equality perspective

### **Primary Contents**

The course includes an overview of the innovation concept and innovation models, Innovation in the construction and built environment sector, contextual characteristics of construction and the built environment and its impact on innovation, Different types of innovations in construction and the built environment and their diffusion, Change management and the interplay between content, process and context, Change management models and implications and success factors for innovation and change management in the construction and built environment context.

### **Teaching Formats**

The teaching consists of lectures, seminars supervision and a project group assignment. The teaching is English.

### **Examination**

The overall grades of F (Insufficient), E (Sufficient), D (Satisfactory), C (Good), B (Very Good), A (Excellent) will be awarded for the course.

The course examination consists of an individual written examination, project work in groups, and seminars.

Name of the test		Grading
Seminars	2 credits	U/G
Project Work	2 credits	F/E/D/C/B/A
Examination	3,5 credits	F/E/D/C/B/A

If there are special reasons, the examiner may make exceptions from the specified examination format and allow a student to be examined in another way. Special reasons can e.g. be a decision on learning support.

For elite sports students according to Riktlinjer för kom-

binationen studier och elitidrott vid Högskolan i Halmstad, DNR: L 2018/177, the examiner has the right to decide on an adapted examination component or let the student complete the examination in an alternative way.

### Course Evaluation

Course evaluation is part of the course. This evaluation should offer guidance in the future development and planning of the course. Course evaluations should be documented and made available to the students.

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## Course Literature and Other Study Resources

Akintoye, A., Goulding, J. & Zawdie, G. *Construction Innovation and Process improvement*. Chichester: Blackwell Publishing Ltd. Senaste utgåvan.

Tillkommande litteratur såsom vetenskapliga artiklar presenteras vid kursstart.