

## **BIM based project management**

BIM-baserad projektstyrning  
6 credits

Programme course

TNBJ27

Valid from: 2024 Spring semester

<b>Determined by</b> Board of Studies for Mechanical Engineering and Design	<b>Main field of study</b> Construction Engineering	
<b>Date determined</b> 2023-08-31	<b>Course level</b> First cycle	<b>Progressive specialisation</b> G2F
<b>Revised by</b>	<b>Disciplinary domain</b> Technology	
<b>Revision date</b>	<b>Subject group</b> Building Technology	
<b>Offered first time</b> Autumn semester 2023	<b>Offered for the last time</b>	
<b>Department</b> Institutionen för teknik och naturvetenskap	<b>Replaced by</b>	

## Course offered for

- Bachelor of Science in Construction Engineering

## Prerequisites

Building Engineering, Building Mechanics and Solid Mechanics, Wood Construction, Civil Engineering, Industrial Construction

## Intended learning outcomes

The course will give the student knowledge to carry out a major building project in a group from a construction point of view. The course is conducted in forms similar to those prevailing in a design office. After completing the course, the student should be able to:

- evaluate the usefulness of BIM in a project
- apply planning and prepare and lead project meetings with clients
- apply collision control for given input parameters
- use calculation software and perform construction drawings using BIM software

## Course content

The course will give students the knowledge to carry out a major building project in groups from a construction point of view. In order for the course to be as realistic as possible, the work is conducted in forms similar to those prevailing in a design office. The course will also provide skills with computer support in the design work.

- different types of foundation
- different types of frames / frame systems
- body stabilization
- different types of flooring and roofing
- write minutes and make schedules for project work
- in a group, analyze, plan and carry out the work assigned to the group
- plan, prepare and carry out oral and written presentation of a project

## Teaching and working methods

The course is conducted in project form, with supervisors, where the students in groups of 3-4 students prepare construction calculations and construction drawings for a building. The groups have project meetings with clients / supervisors where the conditions and execution of the project work are determined.

## Examination

PRA1          Project Work                                  6 credits                                  U, G

## Grades

Two-grade scale, U, G

## Other information

### About teaching and examination language

The teaching language is presented in the Overview tab for each course. The examination language relates to the teaching language as follows:

- If teaching language is “Swedish”, the course as a whole could be given in Swedish, or partly in English. Examination language is Swedish, but parts of the examination can be in English.
- If teaching language is “English”, the course as a whole is taught in English. Examination language is English.
- If teaching language is “Swedish/English”, the course as a whole will be taught in English if students without prior knowledge of the Swedish language participate. Examination language is Swedish or English depending on teaching language.

### Other

The course is conducted in such a way that there are equal opportunities with regard to sex, transgender identity or expression, ethnicity, religion or other belief, disability, sexual orientation and age.

The planning and implementation of a course should correspond to the course syllabus. The course evaluation should therefore be conducted with the course syllabus as a starting point.

The course is campus-based at the location specified for the course, unless otherwise stated under “Teaching and working methods”. Please note, in a campus-based course occasional remote sessions could be included.