BIM Based Project Management

BIM-baserad projektstyrning
6 credits

Programme course

TNBJ27

Valid from: 2023 Spring semester

Determined by	**Main field of study**	
Board of Studies for Mechanical Engineering and Design	Construction Engineering	
Date determined	**Course level**	**Progressive specialisation**
2022-08-31	First cycle	G2F
Revised by	**Disciplinary domain**	
	Technology	
Revision date	**Subject group**	
	Building Technology	
Offered first time	**Offered for the last time**	
Autumn semester 2023		
Department	**Replaced by**	
Institutionen för teknik och naturvetenskap		

Course offered for

- Bachelor of Science in Civil 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 a manner where both men's and women's experience and knowledge are made visible and developed.

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.

If special circumstances prevail, the vice-chancellor may in a special decision specify the preconditions for temporary deviations from this course syllabus, and delegate the right to take such decisions.