

Computer Aided Building Design

Programme course

8 credits

Datorstödd byggprojektering

TNBI34

Valid from: 2018 Spring semester

Determined by
Board of Studies for Mechanical
Engineering and Design

Date determined

Main field of study

Civil Engineering

Course level

First cycle

Advancement level

G2X

Course offered for

- Civil Engineering, B Sc in Engineering

Entry requirements

Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

Prerequisites

Structural Mechanics and Strength of Materials, Concrete Structures and Geo Construction and Timber and Steel Structures

Intended learning outcomes

The course intends to give the students basic knowledge about

- planning and perform a project work regarding design the structures of an industrial building
- computer aided design (CAD)

Course content

One project work which content design of typical details from industrial building, like:

- different types of foundation
- different types of structures
- bracing to horizontal forces
- different types of concrete slabs
- design of gantry girders for overhead traveling cranes

Teaching and working methods

In consultation with a teacher a project work is performed.

Examination

PRA1 Project work 8 credits U, G

Grades are given as 'Fail' or 'Pass'.

Grades

Two grade scale, older version, U, G

Department

Institutionen för teknik och naturvetenskap

Director of Studies or equivalent

Dag Haugum

Examiner

Anders Johansson

Course website and other links

Education components

Preliminary scheduled hours: 94 h

Recommended self-study hours: 119 h

Course literature

Books