

Drawing Techniques and Object-oriented Modeling

Programme course

6 credits

Ritsteknik och objektorienterad modellering

TNBI98

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

G1X

Course offered for

- Bachelor of Science in Civil Engineering

Intended learning outcomes

To provide knowledge and skills in utilizing BIM technology as effective visualization and design tools. After the course, students will be able to: Apply basic rules in drawing technique for the construction field. Create 2D drawings according to Swedish standards from a current model. Create model files, drawing definition files and plot files. Explain different types of drawings in the construction process.

Course content

Basic drawing techniques: Line types. Views and sections. Dimensions. Other conventions in Drawing techniques. Introduction to the current program and object-oriented tools, their structure and interface. Modeling and principles for drawing techniques. Object-oriented modelling. Creation of 2D drawings from a current 3D model. Drawing arrangement according to Swedish Standard.

Teaching and working methods

Lectures and computer exercises.

Examination

KTR1	Written test	2 credits	U, G
LAB1	Laboratory work	4 credits	U, G

Grades are given as 'Fail' or 'Pass'

Grades

Two grade scale, older version, U, G

Course literature

Ritsteknik, Karin Spets, ISBN 978-91-44-07956-1. Literature distributed during the course.

Department

Institutionen för teknik och naturvetenskap

Director of Studies or equivalent

Dag Haugum

Examiner

Dag Haugum

Course website and other links

<http://www2.itn.liu.se/utbildning/kurs/>

Education components

Preliminary scheduled hours: 0 h

Recommended self-study hours: 160 h