

# Drawing Techniques and Object-oriented Modeling

Programme course

6 credits

Ritsteknik och objektorienterad modellering

TNBI98

Valid from: 2017 Autumn 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

- Civil Engineering, B Sc in 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.

## 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, U, G

## Department

Institutionen för teknik och naturvetenskap

## Director of Studies or equivalent

Dag Haugum

## Examiner

Virginia Gonzalo

## 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