

# Drawing Techniques and Objectoriented Modeling

Programme course

6 credits

Ritteknik och objektorienterad modellering

TNBI98

Valid from: 2019 Spring semester

**Determined by** Board of Studies for Mechanical Engineering and Design

**Date determined** 2018-08-31

# Main field of study

Civil Engineering

#### Course level

First cycle

#### Advancement level

G<sub>1</sub>X

#### 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 givens as 'Fail' or 'Pass'

#### Grades

Two grade scale, older version, U, G



## Course literature

Ritteknik, 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: o h Recommended self-study hours: 160 h

