



## COURSE SYLLABUS

# **BIM 1 Modelling and Presentation, 6 credits**

*BIM 1 Modelling and presentation, 6 högskolepoäng*

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<b>Course Code:</b> T1BG17	<b>Education Cycle:</b> First-cycle level
<b>Confirmed by:</b> Dean Feb 1, 2017	<b>Disciplinary domain:</b> Technology (95%) and social sciences (5%)
<b>Revised by:</b> Director of Education Aug 17, 2020	<b>Subject group:</b> BY1
<b>Valid From:</b> Aug 1, 2020	<b>Specialised in:</b> G1N
<b>Version:</b> 4	<b>Main field of study:</b> Civil Engineering

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### **Intended Learning Outcomes (ILO)**

After completing the course, the student shall:

Knowledge and understanding

- display knowledge of concepts in fundamental building technology
- display basic knowledge of digital collision control facilities

Skills and abilities

- demonstrate the ability to use drawing and presentation standards in the construction industry
- demonstrate the ability to use digital information technology in modeling and drawing as well as presentations in the subject area (BIM)
- demonstrate the ability to model a simple building based on constructive, material and design aspects
- demonstrate the ability to document and report construction documents in a BIM system

### **Contents**

The course provides basic skills in drawing standards and digital building information modeling as well as an insight into the use of collision control programs. It also provides basic knowledge of the constructive design of a small building regarding technical aspects, as well as basic skills in presentation technique. The course also provides basic knowledge of digital delivery management.

The course contains the following elements:

- Drawing standards
- Object-oriented modeling
- Creation of 2D drawings from a 3D model
- Modeling and presentation of a simple building
- Concepts in fundamental building technology
- Collision control

### **Type of instruction**

The teaching is conducted through lectures, exercises, and project work

The teaching is conducted in English.

### **Prerequisites**

General entry requirements and Physics 2, Chemistry 1, Mathematics 3c. Or: Physics B, Chemistry A, Mathematics D (or the equivalent).

### **Examination and grades**

The course is graded Fail (U) or Pass (G).

The final grade will only be issued after satisfactory completion of all assessments.

Registration of examination:

<b>Name of the Test</b>	<b>Value</b>	<b>Grading</b>
Project Work	5 credits	U/G
Tests	1 credit	U/G

### **Course literature**

The literature is preliminary until one month before the course starts.