

COURSE SYLLABUS

Pathway BIM 1, 7.5 credits

Pathway BIM 1, 7,5 högskolepoäng

Course Code: PB1G11	Education Cycle: First-cycle level
Confirmed by: Utbildningsrådet Sep 30, 2020	Disciplinary domain: Technology
Valid From: Aug 23, 2021	Subject group: BY1
Version: 1	Specialised in: G2F

Intended Learning Outcomes (ILO)

After a successful 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 perform analyzes and simulations using BIM

Judgement and approach

- 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

Type of instruction

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 and simulations.

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

- Daylight simulation or similar

The horizontal aim is to develop and strengthen student skills within higher education through group work, social engagement, peer learning, reflective learning and autonomous learning whilst developing intercultural communication skills, metacognitive skills, information literacy and critical thinking.

The teaching is conducted in English.

Prerequisites

60 credits at first-cycle level and English language level of at least IELST 5.5 or equivalent.

Examination and grades

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

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

Registration of examination:

Name of the Test	Value	Grading
Project Work	7.5 credits	U/G

Course literature

The literature list for the course will be provided one month before the course starts.