



AF176V Introduction to BIM, Building Information Modelling 6.0 credits

Introduktion till BIM, Building Information Modelling

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for AF176V valid from Spring 2013

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

General entry requirements and 90 credits within the subject areas the built environment or building technology or architecture. English B.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The course aims to give a general orientation in correct working methodology in working with BIM and a practical introduction to 3D projection/planning, installation and coordination.

After the course, the student should:

- Be familiar with the theory behind BIM
- Be able to handle model information and use databases associated with BIM
- Be able to handle installation coordination with MagiCad
- Be familiar with the possibilities of collision/interference control using Navisworks
- Be able to apply acquired knowledge in a project

Course contents

Problem-based learning: the course is centred around a project, where a given architectural model is used. During the course, the student carries out simplified projecting of installations and coordination of these activities.

During the course, the following parts will be treated:

- The definition BIM in general
- Introduction to; Revit, MagiCAD and Navisworks
- Introduction to coordination between projectors in the chosen programs

Disposition

The course starts as a 1.5 credit distance course. At course registration, the students will obtain access to programs that will be used in the course for self-study. This part of the course is completed when the home assignment, Project 1, is completed.

The course continues as a 4.5 credit teacher-supervised course. This consists partly of a theoretical part with lectures and a project part where the entire knowledge is exercised and integrated in a project.

Course literature

Course material and compendiums can be obtained through Bilda.

Equipment

Own computer with Internet connection is required during the initial week (distance education) of the course.

Examination

- PRO2 - Assignment, 4.5 credits, grading scale: P, F
- PRO1 - Assignment, 1.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Other requirements for final grade

For final grade is required a passing grade in Project 1 and Project 2.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.