AF272V BIM2, Design, Installation and Integrated Planning 7.5 credits

BIM2, projektering, installation och samordning

Course syllabus for AF272V valid from Spring 14

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

Grading scale: A, B, C, D, E, FX, F
Education cycle: Second cycle
Main field of study: Built Environment

Intended learning outcomes

This course aims to provide a general introduction to 3D design, installation and coordination.

Upon completion of this course, the student shall:

- Understand the theory behind Building Information Modeling (BIM)
- Be able to manage model data and use databases in BIM design
- Be able to coordinate installation with MagiCad
- Be familiar with the collision detection capabilities in Navisworks
- Be able to apply this knowledge to a project

Course main content

Problem-based learning: the course revolves around a project based on a given architectural model. During the course, students will perform simplified installation planning and planning coordination. The elements below are the needed basis.

The following topics will be covered in this course:

- General definition of BIM
- MagiCAD and BIM
- MagiCAD and IFC - IFC Viewers
- IFC Import using AutoCAD MEP
- Coordination between planners
- Introduction to MagiCAD in Revit MagiCAD and Revit MEP
- Installation coordination using Navisworks

Disposition

The course elements include a theory section, a briefing and demonstration section, and a project section in which knowledge is practised and integrated in a project.

Language of instruction

Language of instruction is specified in the course offering information in the course and programme directory.

Eligibility

120 credits in the built environment, constructional engineering and architecture. Of these, at least 7.5 credits in the built environment, 15 credits in constructional engineering, 5 credits in architecture and 3 credits in CAD, or a Bachelor of Science in constructional engineering and design, or a Master of Science in the built environment, or an equivalent degree, as well as Swedish B/Swedish 3 and English A/English 6. In addition, courses AF1730 Building Information Modeling 7.5 credits, HS1006 The Building Process 7.5 credits, and AF1742 Business Economics and Quality Systems 7.5 credits or equivalent.

Literature

To be announced at course start.

Examination

- PRO1 - Project, 2.0 credits, grading scale: P, F
- PRO2 - Project work, 4.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 1.5 credits, grading scale: A, B, C, D, E, FX, F