



KURSPLAN

BIM - Requirements and Specifications, 7,5 högskolepoäng

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|------------------------|----------------------------|---------------------------|------------------|
| Kurskod: | TBRR22 | Utbildningsnivå: | Avancerad nivå |
| Fastställd av: | VD 2022-03-01 | Utbildningsområde: | Tekniska området |
| Reviderad av: | Utbildningschef 2023-10-25 | Ämnesgrupp: | BY1 |
| Gäller fr.o.m.: | 2024-08-01 | Fördjupning: | A1N |
| Version: | 2 | Huvudområde: | Bebyggd miljö |

Lärandemål

After a successful course, the student shall

Kunskap och förståelse

- display knowledge of the most common BIM uses in building projects
- display knowledge of the business value of BIM uses in building projects
- show familiarity with information and process requirements in BIM based projects
- demonstrate comprehension of data driven evaluation methods for BIM use

Färdighet och förmåga

- demonstrate the ability to author a BIM execution plan
- demonstrate the ability to author information requirements in a building project
- demonstrate the ability to author evaluation criteria for BIM use

Värderingsförmåga och förhållningssätt

- demonstrate an understanding of how different BIM-uses contribute to fulfilling project goals in a building project

Innehåll

The course focuses on how to specify BIM uses to achieve goals and values in building projects. Students attain knowledge and understanding of how different BIM uses can be identified and expressed in a BIM strategy. In addition, students learn how information needs and processes can be specified in BIM Execution Plans and Information Requirements to ensure their practical implementation in projects and how to define criteria useful for evaluating the BIM based work in building projects.

The course includes the following elements:

- BIM uses in Planning, Design, Construction and Operation of a building
- BIM strategies
- BIM manual
- Information Requirement / Information Delivery

Undervisningsformer

The course consists of lectures, exercises, and seminars.

Undervisningen bedrivs på engelska.

Förkunskapskrav

The applicant must hold the minimum of a bachelor's degree (i.e., the equivalent of 180 ECTS credits at an accredited university) with at least 90 credits in Construction Engineering, Civil Engineering, Built Environment, Architecture Engineering, Product Development (with relevant courses in lighting design) or equivalent. The bachelor's degree should comprise a minimum of 15 credits in mathematics and 7,5 credits in BIM or CAD 3D, or equivalent. Proof of English proficiency is required.

Examination och betyg

Kursen bedöms med betygen 5, 4, 3 eller Underkänd.

Poängregistrering av examinationen för kursen sker enligt följande system:

| Examinationsmoment | Omfattning | Betyg |
|--------------------------|------------|---------|
| Examination ¹ | 3 hp | 5/4/3/U |
| Övningar och seminarier | 4,5 hp | U/G |

¹ Bestämmer kursens slutbetyg vilket utfärdas först när samtliga moment godkänns.

Kurslitteratur

The literature list for the course will be provided 8 weeks before the course starts.

Articles and course compendium free of charge.