



## COURSE SYLLABUS

# Advanced Building Information Delivery, 6 credits

*Advanced Building Information Delivery, 6 högskolepoäng*

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| <b>Course Code:</b> TADS28                           | <b>Education Cycle:</b> Second-cycle level      |
| <b>Confirmed by:</b> Dean Apr 6, 2018                | <b>Disciplinary domain:</b> Technology          |
| <b>Revised by:</b> Director of Education May 5, 2021 | <b>Subject group:</b> BY1                       |
| <b>Valid From:</b> Aug 1, 2021                       | <b>Specialised in:</b> A1F                      |
| <b>Version:</b> 2                                    | <b>Main field of study:</b> Product Development |

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### Intended Learning Outcomes (ILO)

After a successful course, the student shall

Knowledge and understanding

- display knowledge of the basics of process modeling
- display knowledge of the basics of information modeling
- show familiarity with Information Delivery Specifications and Model View Definitions

Skills and abilities

- demonstrate the ability to create a BIM Project Execution Process
- demonstrate the ability to develop Exchange Requirements
- demonstrate the ability to connect Information models to international standards

Judgement and approach

- demonstrate an understanding of the roles of process modeling and information modeling in the building process

### Contents

The course focuses on how to use BIM to achieve goals and sustainable values in building projects. The student is given knowledge and understanding how process modeling and information modeling should be used as tools in BIM base building projects.

The course includes the following elements:

- Process modeling
- Information modeling
- Information Delivery Specifications and Model View Definitions

### Type of instruction

The course consists of lectures, exercises and seminars.

The teaching is conducted in English.

**Prerequisites**

Passed courses 180 credits in first cycle, at least 90 credits within construction engineering or civil engineering and 15 credits Mathematics, and completed the course BIM - Management and Control, 4,5 credits.

**Examination and grades**

The course is graded 5,4,3 or Fail.

The final grade for the course is based upon a balanced set of assessments. The final grade will only be issued after satisfactory completion of all assessments.

Registration of examination:

| Name of the Test       | Value     | Grading |
|------------------------|-----------|---------|
| Examination            | 2 credits | 5/4/3/U |
| Exercises and Seminars | 4 credits | 5/4/3/U |

**Course literature**

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

CIC, C. I. C. R. P. (2011). BIM Project Execution Planning Guide – Version 2.1. Retrieved from University Park, PA, USA:

Zhang, C., Beetz, J., & Weise, M. (2014). INTEROPERABLE VALIDATION FOR IFC BUILDING MODELS USING OPEN STANDARDS. *ITcon*, 20, 24-39.