

COURSE SYLLABUS

Advanced Building Information Delivery, 7.5 credits

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Course Code:	TADS23	Education Cycle:	Second-cycle level
Confirmed:	Nov 28, 2024	Disciplinary domain:	Technology
Valid From:	Aug 31, 2026	Subject group:	Building Technology
		Specialised in:	A1F Second cycle, has second-cycle course/s as entry requirements
		Main field of study:	Built Environment

Intended Learning Outcomes (ILO)

On completion of the 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 different formats used for Information Exchanges.

Skills and abilities

- demonstrate the ability to create a BIM Project Execution Process
- demonstrate the ability to use the Information Models utilized today
- demonstrate the ability to develop advanced Information Exchanges.

Judgement and approach

- demonstrate an understanding of the roles of Process Modeling and Information Modeling in the Building Process
- demonstrate an understanding of the different roles of Asset models and Project models and the information exchanges needed to fulfill these roles.

Content

The course Advanced Building Information Delivery covers the technological basics of BIM and addresses computational methods for information modeling (semantic modeling) of buildings as well as methods for process modeling. It also covers the important aspect of the interoperability of BIM software products and describes some of the standardized data formats and classification systems used for information exchange in the building industry.

The course includes the following elements:

- Process modeling
- Information modeling
- Information Delivery Specifications and and Product Data Templates.

Type of instruction

The course consists of lectures, exercises, and seminars.

Language of instruction is English.

Entry requirements

Passed courses at least 90 credits within the major subject in Construction Engineering, Civil Engineering, Built Environment, Architecture Engineering, Product Development (with relevant courses in Lighting Design) or equivalent and 15 credits in mathematics, and taken course BIM - Management, Control and Evaluation, 7,5 credits, or equivalent. Proof of English proficiency is required.

Examination and grades

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

The final grade for the course is based on 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	2.5 credits	5/4/3/U
Exercises and seminars	5 credits	5/4/3/U

Course literature

Please note that changes may be made to the reading list up until eight weeks before the start of the course.

CIC, C. I. C. R. P. (2011). BIM Project Execution Planning Guide – Version 3. Retrieved from University Park, PA, USA

Borrmann, A., et al. (2018). Building Information Modeling: Why? What? How? Cham, Springer International Publishing