

Information Management in Architecture and Construction (E080830)

Course size (nominal values; actual values may depend on programme)

Credits 3.0 Study time 90 h Contact hrs 30.0 h

Course offerings and teaching methods in academic year 2018-2019

A (semester 1)	Dutch, English	lecture	15.0 h
		seminar: practical PC room classes	15.0 h

Lecturers in academic year 2018-2019

Pauwels, Pieter	TW01	lecturer-in-charge
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Offered in the following programmes in 2018-2019

	crdts	offering
Bachelor of Science in Engineering: Architecture	3	A
Master of Science in Engineering: Architecture (main subject Architectural Design and Construction Techniques)	3	A
Master of Science in Engineering: Architecture (main subject Urban Design and Architecture)	3	A
Master of Science in Civil Engineering	3	A
Exchange Programme Architecture	3	A

Teaching languages

Dutch, English

Keywords

Computer-Aided Design, Building Information Modelling, information management

Position of the course

Key techniques in information management in architecture and construction are taught, taking into account architects, contractors, subcontractors, engineering offices, owners, and so forth.

Contents

- What is Building Information Modelling (BIM): key terms around Building Information Modelling (BIM) and information management
- Use of BIM modelling software: creation of BIM models and generation of plan material (2D plans, renderings, spreadsheets)
- The market and characteristics of BIM software
- BIM standards
- Practical applications: collaboration, protocols and data exchange
- What is a BIM implementation plan?

Initial competences

- Basic knowledge of the design and construction process
- Basic knowledge 2D and 3D modelling techniques
- Thorough competencies of producing 2D plan drawings

Final competences

- 1 Model a 3D building model in BIM software
- 2 Generate plan drawings, spreadsheets, and 3D detail drawings in BIM software
- 3 Thorough understanding of digital techniques for information management
- 4 To be able to appropriately apply information modelling techniques in an architectural design and construction process

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences

assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Lecture, seminar: practical PC room classes

Learning materials and price

Course material and PPT slides offered by the lecturer via Minerva

References

Course content-related study coaching

The lecturer is available before and after classes

Evaluation methods

end-of-term evaluation and continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Oral examination

Examination methods in case of periodic evaluation during the second examination period

Oral examination

Examination methods in case of permanent evaluation

Assignment

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

Extra information on the examination methods

During semester: graded assignment results.

Calculation of the examination mark

- First examination period: weight: 50% for the graded assignment results (continuous assessment); 50% for the oral examination (end-of-term evaluation)
- Second examination period: students deliver a new assignment and a new oral examination is made. Weight: 50% for the graded assignment results (continuous assessment); 50% for the oral examination (end-of-term evaluation)