

Applied Building Technology (E711056)

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

Credits	3.0	Study time	90 h	Contact hrs	36.0 h
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Course offerings and teaching methods in academic year 2018-2019

A (semester 2)	Dutch	seminar: coached	36.0 h
		exercises	0.0 h
		project	

Lecturers in academic year 2018-2019

Vandenbruwane, Ignaas	TW14	lecturer-in-charge
Gekiere, Kathleen	TW14	co-lecturer

Offered in the following programmes in 2018-2019

	crdts	offering
Bachelor of Science in Engineering Technology (main subject Civil Engineering Technology)	3	A
Bachelor of Science in Civil Engineering Technology	3	A
Preparatory Course Master of Science in Civil Engineering Technology	3	A
Preparatory Course Master of Science in Land Survey Engineering Technology	3	A

Teaching languages

Dutch

Keywords

Building materials, construction details, construction method, photo report, design.

Position of the course

The aim of the course is to provide insight into the construction of buildings and the implementation of technical solutions.

The course is a continuation of "Design Tools partim CAD 1" and "Construction of Buildings 1".

Contents

This course contains 2 partims: Construction Details and Photo Report.

• **Partim Construction Details:**

- Gain insight into the construction of a building by drawing a set number of construction details following the design guidelines by means of the software AutoCAD.

• **Partim Photo Report "from wasteland to wind proof dwelling":**

- Gain insight into the construction of a dwelling by observing the different stages of the construction process and by the completion of a photo report that describes the construction of a new-built dwelling.

Initial competences

Competences gained in "Design Tools" and "Construction of Buildings 1".

Final competences

- 1 Gain knowledge with respect to the construction of buildings.
- 2 Make a well-thought building material choice based on the construction method and the desired characteristics.
- 3 Identify building materials and apply them in a correct way in building constructions.
- 4 Being able to design and draw the construction details of a simple construction (dwelling) following the design guidelines.

5 Gain insight into the building process from wasteland to wind proof dwelling.

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

Project, seminar: coached exercises

Extra information on the teaching methods

Partim Construction Details: seminar coached exercises with obligatory presence.
Partim Photo Report: project.

Learning materials and price

Partim Construction Details:

- Costs associated to prints and plots (20 Euro).
- The AutoCAD Architecture software can be downloaded (free) from the Autodesk Student Engineering & Design Community "students.autodesk.com".

Partim Photo Report:

- Costs safety shoes type S3, fluorescent jacket and helmet (25 Euro).
- Costs associated to prints (15 Euro).

References

Course content-related study coaching

By appointment.

Evaluation methods

continuous assessment

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

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

Examination methods in case of permanent evaluation

Assignment

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible in modified form

Extra information on the examination methods

Partim Construction Details: continuous assessment.

Partim Photo Report: continuous assessment.

Calculation of the examination mark

The final mark is calculated taking into account following score distribution:

- **Partim Construction Details:** intermediate evaluation (25%) and final evaluation (75%). Evaluation of the assignment accounts for 1/2th of the total score.
- **Partim Photo Report:** end-of-term evaluation. Evaluation of the report accounts for 1/2th of the total score.

When the student does not participate in the evaluation of one or more components or the student scores less than 10/20 for one of the components, he/she can no longer pass the entire course unit. If the total score is a mark of ten or more out of twenty, then this is reduced to the highest failing mark.