

# Course Specifications

From the academic year 2017-2018 up to and including the

## Construction of Buildings I (E711024)

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

Credits	3.0	Study time	90 h	Contact hrs	24.0 h
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Course offerings and teaching methods in academic year 2018-2019

A (semester 1)	Dutch	lecture	24.0 h
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Lecturers in academic year 2018-2019

Witters, Hilde	TW14	lecturer-in-charge
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Offered in the following programmes in 2018-2019

	crdts	offering
<a href="#">Bachelor of Science in Engineering Technology (main subject Civil Engineering Technology)</a>	3	A
<a href="#">Bachelor of Science in Civil Engineering Technology</a>	3	A
<a href="#">Preparatory Course Master of Science in Civil Engineering Technology</a>	3	A
<a href="#">Preparatory Course Master of Science in Land Survey Engineering Technology</a>	3	A

Teaching languages

Dutch

Keywords

Natural stone, wood, ferrous and non-ferrous metals, ceramic materials and non-ceramic man-made stone, insulation materials, glass, flat roofs.

Position of the course

This course comprises the theoretical knowledge with respect to the characteristics of building materials in relation to the building construction methods. The applications of the different building materials is also included. This knowledge will be related to construction details. Flat roofs are also included.

Contents

- Natural stone
- Wood
- Ferrous and non-ferrous metals
- Ceramic materials and non-ceramic man-made stone
- Insulation materials
- Glass
- Flat roofs

Initial competences

Competences gained in 'Design Tools', 'Engineering Project'

Final competences

- 1 To be able to recognize different kinds of insulation materials and describe their properties. To be able to describe how the different materials were produced. Be able to apply them in a proper way.
- 2 To be able to distinguish different minerals and to describe their properties. To be able to recognize different kinds of natural stones and describe their properties. To be able to classify the natural stones according to the origin of the different stones. To be able to apply the different stones in a proper way.
- 3 To be able to distinguish different bricks and artificial stones and to describe their properties and to describe how the different stones were produced. To be able to apply the different stones in a proper way.
- 4 To be able to explain structures and properties of wood. To be able to describe changes in properties due to wood modification. To be able to recognize different

types of wood products and describe their properties. To be able to describe how the wood products are produced. To be able to apply the different wood products in a proper way.

- 5 To be able to recognize different types of glass and be able to describe the properties and to describe its production process. To be able to apply the various types in a proper way.
- 6 To be able to recognize different metals and describe the properties and how they are produced. To be able to apply the different metals in a proper manner and to describe the applications of the metals.
- 7 To be able to describe structure, material selection, construction of flat roofs. To be able to distinguish different roof structures and to describe their characteristics.
- 8 To be able to describe structure, material selection, construction of lowered ceiling, wall, raised floor. To be able to distinguish different structures and to describe their characteristics.

#### 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

#### Learning materials and price

Course material available via Minerva.

#### References

#### Course content-related study coaching

By appointment.

#### Evaluation methods

end-of-term evaluation

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

Written examination with multiple choice questions

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

Written examination with multiple choice questions

#### Examination methods in case of permanent evaluation

#### Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

#### Calculation of the examination mark