

Foundation and Retention Engineering (E711068)

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

Wylaers, Marc	TW14	lecturer-in-charge
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Offered in the following programmes in 2018-2019

Master of Science in Civil Engineering Technology	crdts	offering
	3	A

Teaching languages

Dutch

Keywords

engineering, foundations, piling

Position of the course

The anchoring of the technology for the implementation and the realisation of constructions or construction components of civil engineering.

Contents

Part I: Foundations

introduction to steel foundation, pile foundations, putfunderingen, diaphragm walls, berets, overcoming existing structures, soilmixwanden, ...

Part II: revetments

groundwater cuts, trench shoring systems, sheet piling, berliner walls, pile walls, soil injections, vhp-grounder tions, grondvernagelingen, ground anchors, grondbeveezingen, slurry walls, narrow walls, sheets, electro osmosis, encasement of trenches and pits, slurry walls, soilmixwanden, ...

Initial competences

The student must have:

- A general technical training.
- A scientific training
- A basic knowledge of construction.
- The student must have succeeded in the courses: "Construction of buildings", "Road constructions", "Water constructions", "Construction materials", "Stability."

Final competences

- 1 Choose and implement in a given practical situation a useful performance technique.
- 2 Choose a foundation and implementation.
- 3 Choose a revetment technique and implementation.

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

Extra information on the teaching methods

Theory: Lecture

Learning materials and price

Private course is available.

Purchase course: 15 euros.

The course is available electronically

References

Course content-related study coaching

The student can ask questions during the lessons. It is always possible to ask questions by e-mail.

Evaluation methods

end-of-term evaluation

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

Possibilities of retake in case of permanent evaluation

not applicable

Extra information on the examination methods

Oral exam during the first en second examination period

Calculation of the examination mark

100% of the theory

Facilities for Working Students

Self-study