

# Course Specifications

Valid in the academic year 2018-2019

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

Credits	3.0	Study time	90 h	Contact hrs	30.0 h
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Course offerings and teaching methods in academic year 2018-2019

A (semester 2)	Dutch	group work	25.0 h
		excursion	5.0 h

Lecturers in academic year 2018-2019

Dils, Jeroen	TW14	staff member
Lesage, Karel	TW14	lecturer-in-charge

Offered in the following programmes in 2018-2019

<a href="#">Bachelor of Science in Civil Engineering</a>	crdts	offering
	3	A

Teaching languages

Dutch

Keywords

project, team work, reporting, concrete technology

Position of the course

In this course, the students need to apply knowledge within the course 'concrete technology'. Furthermore, communication skills are further trained. Students need to work in an independent way, and in small groups. The students will be responsible for a virtual concrete plant that needs to operate in a simulated market environment. Market requests need to be successfully handled.

Contents

- Organisation: The students need to apply knowledge of concrete technology with respect to constructive and durability properties in an independent way, directed online. Some classical introduction sessions will be organized. Students are expected to bring their own laptop.
- Execution of the project: Tasks involving concrete technology, using syllabus, software, and in combination with a visit to a factory. The profit score of the companies will be announced publicly.
- Reporting: During the second half of the semester, the main task needs to be completed and defended. During the second half of the semester, some non-announced tasks will also be given, which have to be completed within approx. one week, and which are also evaluated, contributing to the final score.

Initial competences

Concrete Technology

Final competences

- 1 Application of the knowledge of Concrete Technology, in an independent way.
- 2 Work together in small groups of students, on a topic related to concrete technology.
- 3 Present results by giving a presentation and writing a report, within a realistic industrial context.

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

Excursion, group work

## Learning materials and price

Software for the concrete mix design and simulation of hydration behaviour will be made available through Minerva. Furthermore, the syllabus of 'Concrete Technology' is needed for the projects.

## References

## Course content-related study coaching

In certain sessions, there is group specific feedback from which students can learn. Afterwards there is ad hoc feedback foreseen.. The Minerva platform is used for sharing files and announcements. Student emails are used for announcements.

## 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

Oral examination, participation, report

## 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

Non-Periodic evaluation : Graded intermediate project reports, graded intermediate oral presentation, graded final report. Re-examination : complementary report with oral defence.

## Calculation of the examination mark

Permanent evaluation based on the progress of the project (mainly based on the regular online feedback). The obtained mark on the permanent evaluation partly counts for the final mark (50%). Furthermore, each group has to complete one main task, which has to be orally defended (50%). In case a clearly different input of the different group members is noticed, the final mark for each of the group members can differ accordingly.