

Course Specifications

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

Topometry I (C003149)

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

Credits	5.0	Study time	150 h	Contact hrs	75.0 h
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Course offerings and teaching methods in academic year 2018-2019

A (semester 1)	Dutch	practicum	60.0 h
		lecture	15.0 h

Lecturers in academic year 2018-2019

De Wulf, Alain	WE12	lecturer-in-charge
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Offered in the following programmes in 2018-2019

	crdts	offering
Bachelor of Science in Geography and Geomatics (main subject Surveying)	5	A

Teaching languages

Dutch

Keywords

Surveying engineering, topography, topometry.

Position of the course

Teaching basic definitions and principles in land surveying (planimetric and altimetric) techniques. Bringing insight into the accuracy that can be expected depending on the selected instrument and surveying method.

Contents

- Intersection and resection problems.
- Traversing with different adjustment methods.
- Elements of road design: Calculation and setting out of clothoids
- Basis measuring codes

Initial competences

Introduction to Topography (first bachelor course)

Final competences

Satisfy to the education profile for surveyors (VLOR) in the field of topography, especially traditional surveying methods (traversing, triangulations, trilaterations, calculation and setting out).

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, practicum

Extra information on the teaching methods

- Practical exercises:
- Detailed levelling
 - Detailed measurement of polygon
 - Coded measuring
 - Intersection and resection
 - Setting out a clothoid

Learning materials and price

Book is planned. A regularly updated syllabus is available.

Cost: ca. 20 EUR

References

An extended list of important books in Dutch, English, French and German available in the department's library.

Course content-related study coaching

Students can appeal to the lecturer and exercise assistants, and to the study guides foreseen by the geography department every year.

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

Oral examination, report

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

Extra information on the examination methods

Oral examination for the theory, **with written preparation.**

Written report for each exercise (with oral report during the last exercise) and written examination.

Calculation of the examination mark

Theory: periodical (for 1/2 of the total score).

Exercises: periodical evaluation (for 1/2 of the total score).