

## Geographical Information Processing and Management (C004179)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size (nominal values; actual values may depend on programme)  
Credits 5.0 Study time 150 h Contact hrs 45.0 h

Course offerings and teaching methods in academic year 2020-2021

A (semester 2)	Dutch	Gent	lecture	25.0 h
			practicum	20.0 h

Lecturers in academic year 2020-2021

Bogaert, Peter	WE12	lecturer-in-charge
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Offered in the following programmes in 2020-2021

	crdts	offering
<a href="#">Master of Science in Teaching in Science and Technology (main subject Geography and Geomatics)</a>	5	A
<a href="#">Master of Science in Geography and Geomatics</a>	5	A
<a href="#">Master of Science in Geology</a>	5	A

Teaching languages

Dutch

Keywords

GIS, Geographical Information Systems, policy support, management, quality, ISO, cost price

Position of the course

GIS constitutes a vital means in the geographical method. Acquiring knowledge and insights in managing GIS in various application fields.

Contents

- Methods of analyzing and describing production flows;
- Analysis of demands for spatial and geographical information;
- Follow-up of technological evolution;
- Methods in cost price calculation in GIS projects;
- Quality standards and standards with respect to geographical information;
- Quality implementation and protection;
- Communication and reporting on geographical information.
- Cost calculation

Initial competences

Successfully completed the course *Geographical Information Systems* or having acquired the intended competences in one way or another.

Final competences

- 1 Setting up and managing a well-reasoned conceptual flow diagram of processes of geographical information analysis.
- 2 Having grasped cost price calculations and quality protection.
- 3 Having insights in the digital geographical data available.

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

Learning materials and price

- GI Management, De Maeyer Ph.& Gautama, S., uitgave 2013-2014
- Geraamde totaalprijs: 35 EUR

References

- Antrop, M. De Maeyer, Ph. & Neutens, T. 2012, Geografische Informatiesystemen, Academia Press, PressBurrough, P. & McDonnell, R. 2000: Principles of Geographical. Information Systems. Oxford University Press.  
Website GIS-Vlaanderen: <http://www.agiv.be>

Course content-related study coaching

During practical lessons

Evaluation methods

end-of-term evaluation and continuous assessment

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

Written examination with open questions

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

Written examination with open questions

Examination methods in case of permanent evaluation

Open book examination, assignment

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

Extra information on the examination methods

- Written and oral (closed book) for periodical evaluation of theory.
- Oral for periodical evaluation of practicals and project work.

Calculation of the examination mark

- Permanent evaluation of exercises (25 %).
- Periodical evaluation in a theoretical examination with discussion on practicals and project work (75%).

Students who eschew the permanent evaluation can not pass for this course. For the non-periodical evaluation, a second examination chance can be offered in an alternative format.