

Course Specifications

From the academic year 2015-2016 up to and including the

Earth Observation (C003742)

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

Credits	5.0	Study time	130 h	Contact hrs	15.0 h
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Course offerings and teaching methods in academic year 2018-2019

A (semester 2)	English	lecture	15.0 h
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Lecturers in academic year 2018-2019

De Maeyer, Philippe	WE12	lecturer-in-charge
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Offered in the following programmes in 2018-2019

Master of Science in Space Studies	crdts	offering
	5	A

Teaching languages

English

Keywords

Earth observation, remote sensing

Position of the course

Acquiring an overview of and understanding of different possibilities of application of earth observation, both for the observation of physical properties of the Earth as for socio-economic activities and how the interaction environment-men on Earth can be observed from space. This introduction will be given by guest lecturers directly involved in the use and development of Earth observation (techniques) in a wide variety of disciplines.

Contents

In a half dozen guest lectures of half a day the use of earth observation techniques is explained in several themes, such as:

- evolution of soil degradation;
- urban development;
- protection of (world) heritage;
- floods: impact study;
- observation of forest fires;
- impact of changing climate;
- evolution of deltas;
- study of land slides;
- ...

Initial competences

None

Final competences

Understanding the possibilities of earth observation.

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, seminar

Extra information on the teaching methods

Theory by guest lectures and reporting of a problem linked to a guest lecture

Learning materials and price

Slides, reference materials (articles, ...)

Free of charge (Minerva, ...)

References

A large number of reference works in Dutch, English, French available in the faculty library WE

Course content-related study coaching

Interactive support in connection to the lectures or afterwards by mail.

Guidance by coordinator is possible after appointment

Evaluation methods

end-of-term evaluation and continuous assessment

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

Written examination, open book examination

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

Written examination, open book examination

Examination methods in case of permanent evaluation

Report

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

Calculation of the examination mark

50% periodic evaluation, 50% permanent evaluation