GHENT UNIVERSITY

Course Specifications

Valid as from the academic year 2015-2016

Recent Trends in Photonics (E030740)

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

Credits 4.0	**Study time** 120 h	**Contact hrs**	30.0 h

Course offerings and teaching methods in academic year 2022-2023

A (semester 1)	English	Gent	lecture	10.0 h
			project	20.0 h

Lecturers in academic year 2022-2023

Bogaerts, Wim	TW05	lecturer-in-charge
Clemmen, Stéphane	TW05	co-lecturer

Offered in the following programmes in 2022-2023	**crdts**	**offering**
Bridging Programme Master of Science in Photonics Engineering	4	A
European Master of Science in Photonics	4	A
Master of Science in Photonics Engineering	4	A

Teaching languages

English

Keywords

research, photonics

Position of the course

Through this course the student will be confronted with a number of recent topics in photonics through external and internal experts who present a their research or work (in English). Guest lecturers from companies will expose the student to the application of photonics in industry. Furthermore each student is expected to study one topic oin more detail based on scientific articles and give a seminar in English for his fellow students. During this course, the student will be able to hone his oral and written communication skills.

Contents

- Seminars: Seminars by external speakers, internal speakers and students
- Visits: company visits, conference visits
- Methodologie: creating a bibliography, presentation techniques

Initial competences

Final competences

1 Being able to study a recent trend in photonics in a independent and critical manner.
2 Being able to handle large quantities of new information.
3 Being able to create a reliable reference list.
4 Being able to give an accessible talk for non-specialists.
5 Being able to write a short document summarising a recent trend.

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, project

Learning materials and price

References

Course content-related study coaching

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, report

Possibilities of retake in case of permanent evaluation

examination during the second examination period is not possible

Extra information on the examination methods

During semester: graded oral presentation; graded project reports.

Calculation of the examination mark