

## Recent Trends in Photonics (E030740)

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 4.0 Study time 120 h Contact hrs 30.0 h

### Course offerings and teaching methods in academic year 2020-2021

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

### Lecturers in academic year 2020-2021

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

### Offered in the following programmes in 2020-2021

	crdts	offering
<a href="#">Bridging Programme European Master of Science in Photonics</a>	4	A
<a href="#">European Master of Science in Photonics</a>	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