

## 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 2021-2022

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

### Lecturers in academic year 2021-2022

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

### Offered in the following programmes in 2021-2022

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