

Recent Trends in Photonics (E030740)

Due to Covid 19, the education and assessment 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

30.0h

Course offerings and teaching methods in academic year 2021-2022

A (semester 1)

English

Gent

lecture

10.0h

project

20.0h

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

[Bridging Programme Master of Science in Photonics Engineering](#)

crdts 4

offering 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

Assessment moments

continuous assessment

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

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

Examination methods in case of permanent assessment

Report, Oral examination

Possibilities of retake in case of permanent assessment

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