GHENT UNIVERSITY

Course Specifications

Valid as from the academic year 2024-2025

Short Internship in Photonics (E099221)

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

Credits 5.0 **Study time 150 h**

Course offerings and teaching methods in academic year 2025-2026

A (Year)	English	Gent	work placement
B (semester 1)	English	Gent	work placement

Lecturers in academic year 2025-2026

Morthier, Geert	TWO5	lecturer-in-charge
Beeckman, Jeroen	TWO6	co-lecturer
Ottevaere, Heidi	VUB	co-lecturer

Offered in the following programmes in 2025-2026	crdts	offering
Bridging Programme Master of Science in Photonics Engineering	5	A, B
Master of Science in Photonics Engineering	5	A, B

Teaching languages

English

Keywords

training, photonics, internship

Position of the course

The student spends a period of minimum 5 weeks in a company, research institute or university (UGent or VUB excluded) as a trainee with the objective of gaining practical experience. The subject of the training needs to be related to photonics. The training is concluded by a training report.
This course can not be combined in the curriculum with the Long Internship in Photonics (E099232)
The subject of the intership must be distinctively different from the master thesis subject.
For the regulations, see https://www.ugent.be/ea/en/for-degree-students/your-studies-in-ghent/traineeships

Contents

Training: Training, Training report
The traineeship focuses on the industrial and/or research engineering activities of the student. The student is mastering the knowledge and possesses or acquires the technical skills needed to successfully
accomplish a variety of tasks. The training entity supervisor assigns a wide range of tasks to the trainee to broaden the student's experience and horizon. In a hands-on way, the student thus familiarizes with the
company's task chain. The student is a versatile trainee able to analyse problems and implement solutions.
The student's communicative ability is well-developed and he/she can work in an international team.
The student is a responsible person showing the necessary reliability, autonomy and initiative. The student can use all the above mentioned skills to perform an internship and act as is expected from a young engineer.

Initial competences

Basic concepts of photonics.

Final competences

1 Master and apply advanced knowledge in the discipline in solving complex problems.
2 Have an insight in the photonics industry and in the role of photonics in the scientific and technological evolution of society.
3 Ability to work in a team in a multi-disciplinary work environment.
4 Project planning: ability to formulate objectives, report efficiently, keep track of end-goals and progress of the project.
5 Report on technical or scientific subjects orally, in writing and in graphics.
6 Flexibility to adapt to changing professional circumstances.

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

Work placement

Study material

Type: Internship

Name: stage
Indicative price: Free or paid by faculty
Optional: no

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

Assignment

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible

Extra information on the examination methods

Continuous assessment.
Final report. This report must follow the rules for an internship report as mentioned in the internship regulations of the Faculty of Engineering and Architecture, with a minimum of 10 pages.

Calculation of the examination mark

The evaluation mark is based upon on the feedback provided by the supervisor of the training entity and the final report.
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