

Long Internship in Photonics (E099232)

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

Credits 10.0 **Study time 300 h**

Course offerings and teaching methods in academic year 2023-2024

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

Lecturers in academic year 2023-2024

Beeckman, Jeroen	TW06	lecturer-in-charge
Morthier, Geert	TW05	co-lecturer
Ottevaere, Heidi	VUB	co-lecturer

Offered in the following programmes in 2023-2024

	crdts	offering
Bridging Programme Master of Science in Photonics Engineering	10	A, B
Master of Science in Photonics Engineering	10	A, B

Teaching languages

English

Keywords

Training, photonics, internship

Position of the course

The student spends a period of at least 10 weeks in a company, research institute or university (not UGent or VUB) 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 Short Internship in Photonics (E099221).

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 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 own field of engineering in case of complex problems.
- 2 Ability to work in a team in a multi-disciplinary working-environment and start to take the lead.

- 3 Project planning: ability to formulate objectives, report efficiently, keep track of end-goals and progress of the project.
- 4 Report on technical or scientific subjects orally, in writing and in graphics.
- 5 Flexibility to adapt to changing professional circumstances.
- 6 Have an insight in the photonics industry and in the role of photonics in the scientific and technological evolution of society

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

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**

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

A concise progress report (1 to 2 pages) is sent to the internship supervisor and the promotor after 5 weeks of internship.

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 20 pages.

A final presentation of about 20 minutes for the internship promotor.

Calculation of the examination mark

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