Short Internship in Photonics (E099221)

Valid as from the academic year 2021-2022

Course Specifications

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 offerings and teaching methods in academic year 2021-2022

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Study time</th>
<th>Contact hrs</th>
<th>Language</th>
<th>Location</th>
<th>Teaching Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (year)</td>
<td>5.0</td>
<td>150 h</td>
<td>7.5 h</td>
<td>English</td>
<td>Gent</td>
<td>work placement</td>
</tr>
<tr>
<td>B (semester 1)</td>
<td>5.0</td>
<td>150 h</td>
<td>7.5 h</td>
<td>English</td>
<td>Gent</td>
<td>work placement</td>
</tr>
</tbody>
</table>

Lecturers in academic year 2021-2022

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

Offered in the following programmes in 2021-2022

- Bridging Programme Master of Science in Photonics Engineering: 5 credits, offering A, B
- Master of Science in Photonics Engineering: 5 credits, offering 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.

(Approved)
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

**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**
- Report

**Possibilities of retake in case of permanent evaluation**
- 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.

(Approved)