

Course Specifications

Valid in the academic year 2018-2019

Practical Training (C003759)

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

Credits	6.0	Study time	180 h	Contact hrs	15.0 h
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Course offerings and teaching methods in academic year 2018-2019

A (semester 2)	Dutch	work placement	180.0 h
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Lecturers in academic year 2018-2019

Dawyndt, Peter	WE02	lecturer-in-charge
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Offered in the following programmes in 2018-2019

Master of Science in Computer Science	crdts	offering
	6	A

Teaching languages

Dutch

Keywords

learning by experience, professional practice

Position of the course

The internship is an individual coaching and independent learning situation during a period of experiential learning in a professional practice setting in which students engage in the daily activities at the trainee post. The internship allows students to practise and apply professional-oriented knowledge and competencies.

Contents

An internship lasts for at least four full working weeks, but in consultation with the student and the company students often opt for an a six-week internship which is usually completed during the summer months between the first and second master year. This allows students to perform their internship assignment with a maximal amount of knowledge and skills, and that they are able to concentrate for 100% on performing the intership during that period. In choosing a work placement, it is required that the internship assignment is in line with the goals of the Master of Science in Computer Science - and thus should contain a certain software component involving data analysis, modeling or algorithms - and the placement company shows a strong commitment for a qualitative supervision of the intern. In most cases, students are alone on a work placement, but they may also be part of a small group of students.

Through the internship program, the master's program want to allow its students to gain experience outside an academic context, so the internship is preferably performed in the workplace itself. During the internship students should be involved as much as possible to the business processes that interfere with the performance of the internship assignment (meetings, customer visits, ...). This way, students can demonstrate that they can deepen and become proficient in the practical application of computer science for socially relevant problems coming from industry, the business world or the public sector.

During the internship students must demonstrate that they have the necessary theoretical knowledge and abstraction skills needed to analyze and model problems that arise in computer science, and that they master the techniques, management strategies and software resources to apply this knowledge in an authentic business context.

Initial competences

Final competences of the program Bachelor of Science in Computer Science.

Final competences

- 1 Apply knowledge and skills in computer science in a creative way to find or invent software solutions for complex and computationally challenging problems that stem from the professional practice.
- 2 Creatively use the full range of opportunities available in computing.
- 3 Written report on technical issues and computational problems and their solutions.
- 4 Give effective oral presentations of problems imposed in a business context, the applied software solutions and the processes that led to the implementation of those solutions.
- 5 Work effectively as a team member in a non-academic, professional environment, manage own and other ones learning and development, including managing time, priorities and progress.

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

Extra information on the teaching methods

see above (content)

Learning materials and price

none

References

Internship information for students: <http://www.ugent.be/student/nl/studeren/stage>

Course content-related study coaching

The coordinator helps in selecting the company, preparing the students, and identifying a supervisor. The supervisor is responsible for follow-up, giving suggestions and comments. The coordinator, supervisor of the master's program and supervisor at the work placement are responsible jointly for the evaluation.

Evaluation methods

continuous assessment

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

Oral examination, job performance assessment, report

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

Oral examination, job performance assessment, report

Examination methods in case of permanent evaluation

Oral examination, job performance assessment, report

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

Extra information on the examination methods

Final assessment is done in consultation with all supervisors and the coordinator, after the session in which all internships are presented. This assessment is based on the following elements:

- **evaluation form** completed both by the student and the supervisor at the work placement at the end of the internship
- **written report** of the student containing the following topics *i*) description of the company, *ii*) description of the internship assignment, *iii*) technical report on the execution and results of the internship assignment *iv*) consideration of the student with a personal evaluation of his performance during the internship and his view on the importance of the internship for his training
- **oral presentation** on the progress of the internship and the results of the internship assignment (20 minutes)

Calculation of the examination mark

The final score is determined based on an overall assessment of the three different evaluation forms.