GHENT UNIVERSITY

Course Specifications

Valid as from the academic year 2020-2021

Software Project (E761037)

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

Credits	Study time	Contact hrs
3.0	90 h	30.0 h

Course offerings and teaching methods in academic year 2020-2021

A (semester 2)	Dutch	Gent	project	27.0 h
			excursion	3.0 h

Lecturers in academic year 2020-2021

Ongenae, Veerle	TW05	lecturer-in-charge

Offered in the following programmes in 2020-2021	crdts	offering
Bachelor of Science in Engineering Technology (main subject Information Engineering Technology)	3	A

Teaching languages

Dutch

Keywords

Project, written and oral presentations, Computer Sciences (p170), Information Sciences (P175), Computer Technology (T120)

Position of the course

Design, implementation and presentation of a full-blown application, implementing the design and programming techniques acquired in various other courses.

Contents

In this course groups of students realise a software project using techniques acquired in other courses, complemented with techniques students mastered independently. Following topics will emerge during this project:

- Softwaredesign
- Team-distributed software implementation
- Team interaction
- Independent acquisition of new skills
- Version management
- Software documentation
- Presentation of results
- Construction of a working demo
- Software installation

The Sustainable Development Goals are taken into account when choosing the subject.

Initial competences

- Being able to program in an object oriented way on an advanced level in Java
- Design programs in UML (following Software Design)
- Develop web and mobile clients (following Userinterfaces)

Final competences

1 Being able to apply principles of software design for the purpose of production, maintenance and quality.

2 Being able to make connections between different scientific disciplines to understand technical issues and processes.

3 Being able to acquire possible forms of modern programming techniques, languages and environments in theory, and apply these effortlessly in practice.

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

Excursion, project

Extra information on the teaching methods

- project (27 hrs): group task, presence required
- excursion (3 hrs): company visit

Learning materials and price

All relevant information will be made available using the electronic learning platform.
The software depends on the project chosen.

References

Course content-related study coaching

Coaching by the teaching staff.

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

Assignment, peer assessment, report

Possibilities of retake in case of permanent evaluation

examination during the second examination period is not possible

Calculation of the examination mark

Overall assessment of the project (19 pts.) based on
- product
- quality of the code
- analysis and design
- report including guidelines for installation and testing and demo video

The individual score may differ from the group score based on the input to the project.
1 mark out of 20 of the exam grades is attributed to participation in the excursions.