Course Specifications
Valid as from the academic year 2019-2020

Course size (nominal values; actual values may depend on programme)
- Credits: 3.0
- Study time: 90 h
- Contact hrs: 30.0 h

Course offerings and teaching methods in academic year 2019-2020
- A (semester 2): Dutch
- Excursion: 3.0 h
- Project: 27.0 h

Lecturers in academic year 2019-2020
- Ongenae, Veerle
  TW05 lecturer-in-charge

Offered in the following programmes in 2019-2020
- Bachelor of Science in Engineering Technology (main subject Information Engineering Technology)
  - Credits: 3
  - Offering: 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:
  - Software design
  - 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

Initial competences
- Being able to program in an object oriented way on an advanced level in Java
- Design programs in UML (following Software Design)

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

(Approved)
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.

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.