

Software Engineering Lab 3 (C004072)

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

Credits 6.0 Study time 180 h Contact hrs 60.0 h

Course offerings and teaching methods in academic year 2020-2021

| | | | |
|----------------|-------|------------|---------|
| A (semester 2) | Dutch | lecture | 10.0 h |
| | | group work | 70.0 h |
| | | project | 100.0 h |

Lecturers in academic year 2020-2021

| | | |
|-------------------|------|--------------------|
| Van Gassen, Sofie | WE02 | lecturer-in-charge |
| N., N. | | co-lecturer |
| wyffels, Francis | TW06 | co-lecturer |

Offered in the following programmes in 2020-2021

| | crdts | offering |
|---|-------|----------|
| Master of Science in Teaching in Science and Technology (main subject Computer Science) | 6 | A |
| Master of Science in Computer Science | 6 | A |

Teaching languages

Dutch

Keywords

Position of the course

Contents

SE/Software Reliability (core T2 (1) + elective)

Software reliability engineering concepts
Software reliability, system reliability and failure behavior
Fault lifecycle concepts and techniques

Initial competences

Final competences

- 1 Design and implement an industrial application on a given platform (e.g., using Lego Mindstorms or Matlab). [Usage]
- 2 Compare and contrast domain specific languages with general purpose programming languages. [Assessment]
- 3 Discuss the constraints that a given industrial platforms impose on developers. [Familiarity]
- 4 Explain the problems that exist in achieving very high levels of reliability. [Familiarity]
- 5 Describe how software reliability contributes to system reliability. [Familiarity]
- 6 List approaches to minimizing faults that can be applied at each stage of the software lifecycle. [Familiarity]

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

Group work, lecture, project

Learning materials and price

platform: robotics en artificiële intelligentie

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

Participation, 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