

Course Specifications

From the academic year 2015-2016 up to and including the

Software Management (E017840)

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

Credits 6.0 Study time 180 h Contact hrs 37.5 h

Course offerings and teaching methods in academic year 2018-2019

A (semester 2)	Dutch	practicum	7.5 h
		lecture	30.0 h

Lecturers in academic year 2018-2019

De Man, Jozef	TW05	lecturer-in-charge
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Offered in the following programmes in 2018-2019

	crdts	offering
Brugprogramma Master of Science in Bioinformatics (main subject Engineering)	6	A
Master of Science in Business Engineering (main subject Data Analytics)	6	A
Master of Science in Bioinformatics (main subject Engineering)	6	A
Master of Science in Business Engineering (main subject Finance)	6	A
Master of Science in Business Engineering (main subject Operations Management)	6	A
Master of Science in Computer Science Engineering	6	A
Master of Science in Computer Science Engineering	6	A

Teaching languages

Dutch

Keywords

CMM, Capability Maturity Model

Position of the course

The goal of this course is to gain an understanding of the management processes of software development projects, aligned with the business objectives of an organization.

Contents

- Software Management: Introduction to Software Management, Software Development Life Cycle Models, Software Management Process Areas, Software Management Process Areas, CMM high maturity maturity levels

Initial competences

Final competences

- 1 Perform basic software management tasks (configuration management, requirements engineering, project planning and monitoring, quality management, risk management, selection of project life cycle).
- 2 Describe purpose and use of the Capability Maturity Model Integration (CMMI) to improve the performance of software development.
- 3 Assess the process improvement maturity/capability of a small software organization.
- 4 Describe the principles and use of advanced software management tasks (statistical process control, causal analysis and defect prevention, continuous process improvement, quantitative process modeling).

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

Lecture, practicum

Learning materials and price

Slides used in lectures, available in Minerva - English Selected articles, available in Minerva - English Capability Maturity Models (www.sei.cmu.edu) - English

References

- Capability Maturity Models (www.sei.cmu.edu)

Course content-related study coaching

Evaluation methods

end-of-term evaluation and continuous assessment

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

Written examination

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

Written examination

Examination methods in case of permanent evaluation

Skills test

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible in modified form

Extra information on the examination methods

During examination period: written closed-book exam

During semester: graded lab sessions. Second chance: Possible in adapted form

Calculation of the examination mark

Evaluation throughout semester as well as during examination period. Special conditions: 75% during examination period 25% during semester