

Project Management (E076820)

Course size (nominal values; actual values may depend on programme)
 Credits 6.0 Study time 180 h Contact hrs 45.0 h

Course offerings and teaching methods in academic year 2018-2019

Offering	Language	Teaching Method	Hours
A (semester 2)	English	group work	15.0 h
		seminar: practical PC room classes	5.0 h
		lecture	20.0 h
		practicum	10.0 h
C (semester 2)	Dutch	guided self-study	20.0 h
		practicum	10.0 h
		seminar: practical PC room classes	5.0 h
		group work	15.0 h

Lecturers in academic year 2018-2019

Vanhoucke, Mario EB24 lecturer-in-charge

Offered in the following programmes in 2018-2019

Programme	crdts	offering
Bridging Programme Master of Science in Industrial Engineering and Operations Research	6	A
Bridging Programme Master of Science in Civil Engineering	6	C
Bridging Programme Master of Science in Industrial Engineering and Operations Research	6	A
Master of Science in Electrical Engineering (main subject Communication and Information Technology)	6	A
Master of Science in Electromechanical Engineering (main subject Control Engineering and Automation)	6	A
Master of Science in Business Engineering (main subject Data Analytics)	6	A
Master of Science in Electromechanical Engineering (main subject Electrical Power Engineering)	6	A
Master of Science in Electrical Engineering (main subject Electronic Circuits and Systems)	6	A
Master of Science in Business Engineering (main subject Finance)	6	A
Master of Science in Electromechanical Engineering (main subject Maritime Engineering)	6	A
Master of Science in Electromechanical Engineering (main subject Mechanical Construction)	6	A
Master of Science in Electromechanical Engineering (main subject Mechanical Energy Engineering)	6	A
Master of Science in Civil Engineering Technology	6	A
Master of Science in Information Engineering Technology	6	A
Master of Science in Industrial Engineering and Operations Research	6	A
Master of Science in Civil Engineering	6	C
Master of Science in Chemical Engineering	6	A
Master of Science in Civil Engineering	6	A
Master of Science in Computer Science Engineering	6	A
Master of Science in Computer Science Engineering	6	A
Master of Science in Industrial Engineering and Operations Research	6	A
Master of Science in Sustainable Materials Engineering	6	A

Master of Science in Chemical Engineering	6	A
Master of Science in Bioscience Engineering: Food Science and Nutrition	6	A
Postgraduate programme in Innovation and Entrepreneurship in Engineering	6	A

Teaching languages

Dutch, English

Keywords

Project Management

Position of the course

The objective of this course is to familiarize students with the concepts and techniques of project management. Every engineer or economist will be faced with projects in her or his function. Some will act as project manager, others as member of a project team or as "customer" of a project. It is important to know the issues of managing and performing projects, as well as the techniques necessary to start and manage projects. During the course, concepts and techniques will be handled. The course consists of theory, practical sessions and cases brought by project managers. One full session will be spent on the introduction to the investigation of project planning.

Contents

- Project characteristics and project performance
- Project life cycle
- Project teams and project organisation
- Project planning: PERT and CPM
- Management of tools in projects
- Theory of constraints in project management
- Research topics in project planning
- Financial side of project planning
- Real-life cases (VMW en Westerscheldetunnel)
- Advanced topics in research: project scheduling
- Risk management

Initial competences

No specific knowledge is required

Final competences

- 1 Provide an understanding in concepts and techniques of project management
- 2 Knowing how to use the techniques for managing projects
- 3 Knowing how to construct a project schedule
- 4 Clarifying the relation between various techniques
- 5 Clarifying the principles of theory of constraints for projects

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

Guided self-study, group work, lecture, practicum, seminar: practical PC room classes

Learning materials and price

Handbook Academia Press
The slides
Relevant articles Cost: 15 EUR

References

Vanhoucke, M., 2012, "Project management with dynamic scheduling: Baseline scheduling, risk analysis and project control", Springer, pp. 310 (ISBN 978-3-642251-74-0).

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

Oral examination, report

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 project reports.

Calculation of the examination mark

Permanent evaluation (50%) and periodic evaluation (50%)