

Project Management (C003273)

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

Credits	3.0	Study time	80 h	Contact hrs	19.5 h
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Course offerings in academic year 2018-2019

A (semester 2)	English
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Lecturers in academic year 2018-2019

Duflou, Joost	KUL	lecturer-in-charge
Cattrysse, Dirk	KUL	co-lecturer

Offered in the following programmes in 2018-2019

	crdts	offering
Master of Science in Space Studies	3	A

Teaching languages

English

Keywords

Position of the course

The main goal of this course is to provide the student a broad survey of techniques and instruments available for start-up, execution and follow-up of large projects in general. Different disciplines will be discussed e.g. budgeting, scheduling, management of the means, theory of organisation necessary to global management of projects.

A second goal is the application of the generic principles of project management and presentation of some testcases in relation to space exploration and space research.

Contents

Introduction

- What is project management?
- Situation within the general planning problem
- Characteristics of projects
- Project manage
- Components, concepts and terminology
- Life cycle of a project: strategical and tactical considerations
- Factors responsible for the success of a project

Organization structures and task division

- Organization structures
- Staff management
- Concurrent engineering
- Assessment and selection
- Division of a project
- Contracting out or doing it yourself?
- Conflict evaluation: internal within the organization, environmental effects, other

Project planning

- Introduction
- Length of project activities
- Learning effect
- Order relations
- Gantt-presentation
- Arrow network for critical path mathematics
- Block network for critical path mathematics
- LP formulation

- Aggregation of activities
- Dealing with insecurity
- Analysis of PERT and CPM presuppositions
- Conflicts in planning

Project budget

- Introduction
- Project budget and company goals
- Drawing up a budget
- Budget management
- Financing

Management of resources

- Influence of limited resources on the project
- Classification of resources
- Planning of resources and project with time as a limiting factor
- Planning of resources and project with resources as a limiting factor
- Priority rules for the admission of resources
- Subcontracting/assessing suppliers
- Executing projects in parallel

Project control

- Introduction
- Control systems
- Following up and controlling time wise planning and costs
- Reporting
- Updating cost and planning parameters
- Technological control

Computer support for project management

- Introduction
- Use of computers
- Criteria for software selection
- Software implementation
- Data management and knowledge management

Project finalizing

- Introduction
- When to finalize a project?
- Final steps in the finalization of project

Case studies

Initial competences

Final competences

<https://www.kuleuven.be>

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, integration seminar, seminar: coached exercises

Learning materials and price

References

Course content-related study coaching

Evaluation methods

end-of-term evaluation

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

Assignment

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

Assignment

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation

not applicable

Extra information on the examination methods

Task with presentation and defence

Calculation of the examination mark