

M02 (Technical Management)

Identifier	Module Name	Type	Course	Sem. 2
M02	Technical Management	Compulsory module for all majors	Project Management and Management Processes	2.5 CP
				2V
			Team Project	5CP
				1P
Module Responsible and Instructor		Additional Instructor(s)		
Fromm		all professors of the department		

1. Module content

Content of course "Project Management and Management Processes"

This course provides an introduction to professional project management. It covers the areas

- introduction into industry process models, e.g. CMMi and SPICE,
- project roles and workflow,
- team building and team management, change and configuration management,
- planning and estimation methods,
- quality assurance and reviews,
- project tracking and product metrics and
- agile methods like SCRUM.

Content of course "Team Project"

In this course, the students execute a practical project using the methods presented in the lecture "Project Management and Management Processes". It covers the areas:

- practical development of a technical system (project work)
- project management and work package agreement,
- requirements engineering, system design,
- implementation and testing,
- team building and team communication,
- and documentation and presentation of the results.

2. Learning outcome / competencies

The student achieves competencies in the above mentioned topics. The student is able to plan, execute and present a medium size project as project manager and/or technical member.

3. Course organization and structure

Class lecture, teamwork, presentation of the results in a seminar.

4. Credits and work load

Project Management and Management Processes: 2,5 CP, 75 hours total workload, 30 hours lecture
Team Project: 5CP, 150 hours total workload, team project,

5. Examination modalities

Project Management and Management Processes: Exam (Duration: 90 min) covering the complete content of the module at the end of the semester. A make-up exam will be offered during the following semester.

Team Project: Seminar with a presentation of the technical and management results at the end of the semester.

Possible changes to the examination modalities may be communicated upon start of the module.

6. Prerequisites

None.

7. Duration and frequency of course

The module lasts one semester. It is offered in the summer semester.

8. Applicability/utilization

The module provides the prerequisites for the industrial placement and the master thesis.