

Module Handbook

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Course INF-02-16-K-2

Project Management (3V+1U, 6.0 LP)

Course Type

SWS	Type	Course Form	CP (Effort)	Presence-Time / Self-Study
-	K	Lecture with exercise classes (V/U)	6.0 CP	124 h
3	V	Lecture		42 h
1	U	Exercise class (in small groups)		14 h
(3V+1U)			6.0 CP	56 h 124 h

Basedata

SWS	3V+1U
CP, Effort	6.0 CP = 180 h
Position of the semester	1 Sem. in WiSe
Level	[2] Bachelor (Fundamentals)
Language	[DE] German
Lecturers	Pews, Gerhard, Dr. (EXT DEPT: INF)
Area of study	[INF-PFL] Mandatory Modules
Lifecycle-State	[NORM] Active

Possible Study achievement

- Verification of study performance: **proof of successful participation in the exercise classes (ungraded)**

- Examination number (Study achievement): 60216 ("Project Management")
- Details of the examination (type, duration, criteria) will be announced at the beginning of the course.

Contents

- Basics of project management in software projects
- Organization and planning
 - Organization of the project environment and forms of organization: Line organization, matrix organization
 - Definition of project objectives and estimation: procedure, surcharges, experience, min/max estimation
 - Rough/fine planning, milestones, activities, dates, planning of funds
 - Specifications, requirements, specification, design, development, integration, test
 - Team organization through project phases, team building, roles in the team
 - Controlling, estimation of remaining expenditure and progress control
- Procedural models
 - Selection of a procedural model for a project: waterfall, RUP, spiral model, incremental, prototyping
 - Connection between process models and project management
- Resources
 - Means of work: meetings, protocols, agreements, lists of open points, project diary, project handbook
 - Software support for project management
 - Software management, libraries, repositories
- Quality assurance
 - Quality concept and quality characteristics
 - Constructive and analytical quality assurance
 - Organizational measures, roles, reporting
- Other aspects
 - Risk management
 - Management styles
 - Change management
 - Handling of supplies
 - Information management in the project
 - Relationship between IT system decomposition and team structure
 - General Contractors

Literature

- M. Burghardt, *Einführung in Projektmanagement: Definition, Planung, Kontrolle und Abschluss*, 6. Aufl. Erlangen: Publicis Publishing, 2013.
- P. M. Institute, *A Guide to the Project Management Body of Knowledge*, 5 Rev ed. Newtown Square, Pennsylvania: Project Management Institute, 2013.
- Walter Ruf, Thomas Fittkau: *Ganzheitliches IT-Projektmanagement. Wissen, Praxis, Anwendungen*. Oldenbourg Verlag 2010.

Requirements for attendance (informal)

Courses

- [INF-02-01-K-2] Foundations of Programming (4V+4U, 10.0 LP)

Requirements for attendance (formal)

None

References to Course [INF-02-16-K-2]

Module	Name	Context	
[INF-02-16-M-2]	Project Management	P: Obligatory	3V+1U, 6.0 LP
[INF-30-06-M-2]	Software-Engineering 1	P: Obligatory	3V+1U, 6.0 LP