

Module Handbook (<https://modhb.uni-kl.de/>)

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Module INF-02-16-M-2

Project Management (M, 6.0 LP)

Module Identification

Module Number	Module Name	CP (Effort)
INF-02-16-M-2	<i>Project Management</i>	6.0 CP (180 h)

Basedata

CP, Effort	6.0 CP = 180 h
Position of the semester	1 Sem. in WiSe
Level	[2] Bachelor (Fundamentals)
Language	[DE] German
Module Manager	Liggesmeyer, Peter, Prof. Dr. (PROF DEPT: INF) (/staff/516/)
Lecturers	Pews, Gerhard, Dr. (EXT DEPT: INF) (/staff/536/)
Area of study	[INF-PFL] Mandatory Modules
Reference course of study	[INF-82.79-SG] B.Sc. Computer Science (/mhb/FB-INF/cos-506/)
Lifecycle-State	[NORM] Active

Courses

Type/SWS	Course Number	Choice in Module-Part	SL	PL	CP	Sem.
3V+1U	INF-02-16-K-2 (/mhb/courses/INF-02-16-K-2/)	P	U-Schein	no	6.0	WiSe

- About [INF-02-16-K-2]: Title: "Project Management"; Presence-Time: 56 h; Self-Study: 124 h
- About [INF-02-16-K-2]: The study achievement [U-Schein] proof of successful participation in the exercise classes (ungraded) must be obtained.

Evaluation of grades

The module is not graded (only study achievements)..

Contents

From [INF-02-16-K-2] Project Management (/mhb/courses/INF-02-16-K-2/):

- 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

Competencies / intended learning achievements

The students...

- should be able to create central project planning documents and apply them in a intended manner,
- should be able to document, analyze and control the progress of software projects,
- are to become acquainted with the legal basics of project management,
- get to know risk management as a permanent task in project management,
- can describe and assess central quality assurance measures in projects,
- acquire the theoretical knowledge to perform project management,
- are enabled to estimate the project effort, plan the project flow and use resources in a goal-oriented way.

Literature

From [INF-02-16-K-2] Project Management (/mhb/courses/INF-02-16-K-2/):

- 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)

None

Requirements for attendance (formal)

None

References to Module / Module Number [INF-02-16-M-2]

Course of Study	Section	Choice/Obligation
[INF-82.79-SG] B.Sc. Computer Science (/mhb/FB-INF/cos-506/)	Software Development	[P] Compulsory
[MAT-82.105-SG] B.Sc. Mathematics (/mhb/FB-MAT/cos-509/)	Internship / Elective Area	[WP] Compulsory Elective
[MAT-88.118-SG] M.Sc. Industrial Mathematics (/mhb/FB-MAT/cos-539/)	Computer Science and Computational Methods	[WP] Compulsory Elective
[MAT-88.276-SG] M.Sc. Business Mathematics (/mhb/FB-MAT/cos-548/)	Computer Science and Computational Methods	[WP] Compulsory Elective
[WIW-82.789-SG] B.Sc. Business Studies with Technical Qualifications (/mhb/FB-WIW/cos-524/)	Field of study: Computer Science	[WP] Compulsory Elective
[WIW-82.176-SG] B.Sc. Business Administration and Engineering specialising in Computer Science (/mhb/FB-WIW/cos-512/)	Engineering specialization - Computer Science	[P] Compulsory
[WIW-82.?-SG#2021] B.Sc. Business Studies with Technical Qualifications 2021 [2021] (/mhb/FB-WIW/cos-682/)	Technical Profile Area	[WP] Compulsory Elective