Module description: IT Projects

Module Code	t.BA.MI.PM1.23HS
ECTS Credits	4
Language of Instruction/Examination	German
Organizational Unit	InIT
Module Coordinator	Elio Bazzi
Legal Framework	The module description is part of the legal basis in addition to the general academic regulations. It is binding. During the first week of the semester a written and communicated supplement can specify the module description in more detail.
Module Characteristic	Type 4* 4 lab lessons per semester week and half-class
Module Description	Computer science projects are the main field of application for medical computer engineers. Adequate skills of students in this area are therefore of great importance for the education.In this first project module, specialized knowledge from other computer science modules is applied and enriched with first experiences in team project work. This includes team and individual work in project planning, technical writing, software design and code management.
Module Content	• Students independently create and analyze program code in small teams, applying the learning content from the parallel course Computer Science Programming 1. In doing so, what has been learned so far (Python programming, testing, etc.) will be consistently applied and further deepened. • No additional technical learning content is taught in this module. Project know-how is taught, such as team roles, leading meetings and writing minutes, communicating technical content in a way that is appropriate for the target audience, and developing functional descriptions. • In addition to the focus on tecnical competencies, interdisciplinary competencies in self-organization, teamwork, research, and oral and written communication of technical content are also promoted.
Prerequisite Knowledge	Coordinated with lecture Computer Science Programming 1 (Informatik Programmieren 1)

Learning Objectives (Competences)	Students...	Competencies	Taxonomies
	They can identify missing knowledge for the processing of a problem definition and procure the information necessary for the problem solution in time and independently.	SE	K3
	They actively work together in a team in a goal-oriented manner, assuming partial responsibility in various roles for the development of the joint project.	SO	K3
	The students apply their acquired specialized knowledge from the lecture computer science programming 1 (Informatik Programmieren 1) and deepen it with the execution of several software projects from the idea, planning to the implementation.	M, F	K3
	They are able to communicate their own project results, technical decisions and solutions in a professional and linguistically correct manner, appropriate to the target audience.	M	K3

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Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form
	other	Grade		100	acc. to module agreement

	Performance assessment during the semester	Assessment	Length (min.)	Weighting	Form
	-	-	-	-	-

Classroom Attendance Requirement	None
Learning material	
Comments	In the case of group work, individual performance influences individual grades, i.e. the grades of group members may differ.The content of the module can be used both on-site and online. Due to the communication-heavy supervision by the lecturers, on-site is more efficient and therefore to be preferred.