

Module description: Internship Semester 1	
Module Code	t.BA.MI.PS1.23HS
ECTS Credits	14
Language of Instruction/Examination	German
Organizational Unit	IEM Ltg.
Module Coordinator	Daniel Roetenberg
Deputy Module Coordinator	Fabienne Keller
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 8 Internship semester 14 ECTS
Module Description	Students complete an internship semester in partner companies that are active in the health informatics sector. The aim of the internship semester is to apply the theoretical knowledge and skills acquired in the first semesters in practice and to adapt them to the operational conditions. Students gain an insight into the world of work as a medical IT specialist and gain initial experience in everyday working life. The practical semester consists of 2 parts. Full-time students complete both parts in one piece in the 4th semester. Part-time students complete part 1 in the 4th semester and part 2 in the 6th semester. The internship semester typically starts on February 1st (or the following Monday).
Module Content	• The students apply for an internship position and are hired by the company. • Fields of application for students: Healthcare facilities such as hospitals, rehabilitation clinics, software providers and ICT service providers related to health informatics (e.g. clinical information systems, practice software, EHR), health associations, health authorities, health insurance companies related to health informatics, medical technology industry related to health informatics (e.g. connection/networking of personalized devices and systems such as mobile health/wearables or integration of devices into the IT systems of hospitals/clinics). • In the first few weeks of the internship, students formulate project-specific goals together with the company, which are approved by both the company and the ZHAW internship supervisors. • During the internship, students can take on specific tasks in topics covered in the basic curriculum: e.g. specifying technical requirements in cooperation with medical departments, support in the operation of specialist medical applications, programming and testing in software development, data standards in healthcare, database queries, clinical and/or administrative information systems and processes, development of web applications, solving data science tasks.
Prerequisite Knowledge	The internship semester can only begin once the assessment stage has been passed. Part-time students are exempt from the modules of module group MI2 listed in the appendix to the study regulations.

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Learning Objectives (Competencies)	Students...				Competencies	Taxonomies
	Application and consolidation of theoretical knowledge: Students should be able to practically apply and deepen the theoretical knowledge in medical informatics acquired during their studies by working on real projects and tasks in a clinical or IT environment.				F, M	K1, K2, K3, K4
	Development of problem-solving skills: Students should develop problem-solving skills by analyzing technical challenges in the field of medical informatics independently or in a team, developing suitable solutions and implementing them in practice.				F, M	K1, K2, K3, K4, K5
	Enhancing communication and teamwork skills: Students should improve their communication and teamwork skills by working in interdisciplinary teams and collaborating effectively with medical staff, IT professionals and other stakeholders.				SO, SE	K1, K2, K3, K4, K5
	In the first few weeks of the internship, the students formulate project-specific goals together with the company, which are approved by the internship supervisor and the ZHAW internship supervisor. In the middle of the internship, students give a short presentation to the company about their tasks, progress and plans for the coming months. At the end of the internship, students write a reflection report in which they describe the skills they have learned, how they have solved tasks and in which direction they would like to deepen their knowledge.				SE, F, SO, M	K1, K2, K3, K4, K5
	Sense of responsibility and professional conduct: Students should develop a sense of responsibility and take into account the ethical and legal framework of medical informatics by carrying out their tasks with a high degree of care and with consideration for data protection and data security.				SO, SE	K1, K2, K3, K4, K5
	Understanding clinical workflows and IT integration: Students should develop an understanding of clinical workflows and their IT integration requirements by participating in projects to implement or improve healthcare IT systems.				F, M	K1, K2, K3, K4
Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Social Form	Scenario/Format
	other	predicate		100%	acc. to module agreement	
	Assessment	Length (min.)	Weighting	Social Form	Scenario/Format	
	-	-	-	-	-	-
Classroom Attendance Requirement	None					

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Comments

The workload is specified in the employment contract with the company.