

Module description: Data Standards in Healthcare						
<b>Module Code</b>	t.BA.MI.DG.23HS					
<b>ECTS Credits</b>	4					
<b>Language of Instruction/Examination</b>	German					
<b>Organizational Unit</b>	InIT					
<b>Module Coordinator</b>	Yanick Lukic					
<b>Legal Framework</b>	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.					
<b>Module Characteristic</b>	Type 3a  2 lecture lessons per semester week and class+ 2 lab bi-weekly lessons per semester and half-class					
<b>Module Description</b>	This course provides an understanding of the importance and application of data standards in healthcare. Students will learn how standardized data formats and protocols improve the quality of patient care, facilitate the exchange of health information and contribute to increased efficiency in healthcare. Through a mixture of theoretical principles and practical examples, students will be able to recognize and address the challenges and opportunities arising from the implementation and use of data standards.					
<b>Module Content</b>	<ul style="list-style-type: none"> <li>• Introduction to data standards in the healthcare sector</li> <li>• Overview of important data standards in IT (JSON, XML etc.)</li> <li>• Overview of important data standards in the healthcare sector (HL7 v2, FHIR, DICOM, ICD, SNOMED-CT, LOINC etc.)</li> <li>• Implementation of data standards in health information systems</li> </ul>					
<b>Prerequisite Knowledge</b>	<ol style="list-style-type: none"> <li>1. Basic knowledge of programming</li> <li>2. Basic knowledge of the healthcare system</li> </ol>					
<b>Learning Objectives (Competences)</b>	<b>Students...</b>		<b>Competencies</b>	<b>Taxonomies</b>		
	Students understand the importance and role of data standards in the healthcare sector.		F, M	K1, K2		
	Students gain knowledge of various international and national data standards such as HL7 v2, FHIR, DICOM, ICD, SNOMED-CT and LOINC and their possible applications.		M, F	K1, K2, K3		
	Students are able to assess the impact of data standards on the interoperability of healthcare systems and develop and implement strategies for their effective implementation.		M, F, SE	K4, K5, K6		
<b>Performance Assessment</b>	<b>End-of-module exam</b>	<b>Assessment</b>	<b>Length (min.)</b>	<b>Weighting</b>	<b>Form</b>	
	written exam	Grade	90	80	acc. to module agreement	
	<b>Performance assessment during the semester</b>					
	<b>Performance assessment during the semester</b>	<b>Assessment</b>	<b>Length (min.)</b>	<b>Weighting</b>	<b>Form</b>	
	written + oral	Grade		20	acc. to module agreement	

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<b>Classroom Attendance Requirement</b>	None
<b>Learning material</b>	
<b>Comments</b>	