

<b>Module description: Digitalization in Hospital</b>			
<b>Module Code</b>	t.BA.MI.DISP.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 2a  4 consecutive lecture lessons per semester week and class		
<b>Module Description</b>	This course provides an introduction to the transformative role of digitalization in healthcare, with a focus on hospital environments. Students will gain insights into the adoption, development and use of digital technologies in healthcare and their impact on patient care, operations and medical practice. Through theoretical foundations and practical applications, including the development of software solutions, this course prepares participants to understand and navigate the challenges and opportunities of digital transformation in hospitals.		
<b>Module Content</b>	<p><b>This course introduces fundamental aspects of digitalization in the healthcare system, with a particular focus on hospital environments. The theoretical lectures will be complemented by practical exercises. The following topics are covered:</b></p> <p><b>System landscape of a hospital</b></p> <p><b>Digital triage systems</b></p> <p><b>Electronic Medical Record (EMR)</b></p> <p><b>Electronic Health Record (EHR)</b></p> <p><b>Decision support systems</b></p> <p><b>Digital medication management</b></p> <p><b>Data interoperability</b></p> <p><b>Service request process</b></p> <p><b>Telemedical procedures</b></p> <p><b>mHealth</b></p>		
<b>Prerequisite Knowledge</b>	Basic knowledge of programming		
<b>Learning Objectives (Competences)</b>	<b>Students...</b>	<b>Competencies</b>	<b>Taxonomies</b>
	You are able to critically analyze the impact of digital technologies on patient care and hospital processes in order to identify potential for improvement.	SE, F	K4
	You can recognize and explain the historical development and current status of digitalization in the healthcare sector.	F	K2
	You will develop the ability to use digital technologies practically to solve real-world healthcare problems, such as developing a simple triage system.	M	K3, K5

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<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>Assessment</b>	<b>Length (min.)</b>	<b>Weighting</b>	<b>Form</b>
	written + oral		Grade		20	acc. to module agreement
<b>Classroom Attendance Requirement</b>	None					
<b>Learning material</b>						
<b>Comments</b>						