Module description	n: Web Application Developmen	t					
Module Code	t.BA.MI.EWA.23HS						
ECTS Credits	4						
Language of Instruction/Examination	German						
Organizational Unit	InIT						
Module Coordinator	Stephan Roth						
Deputy Module Coordinator	Henrik Stormer						
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 3a						
	2 lecture lessons per semester week and class+ 2 lab bi-weekly lessons per semester and half-class						
Module Description	Development of Web Applications						
Module Content	Web technologies play a central role in many areas of IT. Applications are often realised across platforms with web front-ends; this applies both to simple stand-alone solutions and to complex, networked systems that communicate with a wide variety of servers. The web technologies JavaScript and HTML with CSS are at the core of this development  Introduction to the creation of webpage - Elements of the HTML web page language - Structure of a webpage with HTML - Structuring a webpage - Designing webpage elements using CSS . JavaScript in the browser * Language elements, similarities to Python * Event handling * Dynamic customisation of webpage elements * State: Sessions, data storage in cockies and local storage * Communication with server via API						
Prerequisite Knowledge	Basic programming skills (preferably in Python)  Variables, constants  Control structures: conditions, loops  Functions  OOP  Data service interaction						
Learning Objectives (Competences)	Students	Competencies	Taxonomies				
(competences)	You understand the structure of a website and you can develop a simple website yourself.	F, M	K1, K2, K3				
	You have basic knowledge of the JavaScript programming language and you are able to develop client-side web applications.	F, M	K1, K2, K3				
	You understand the basics of web architecture consisting of languages for tagging and displaying content, handling the DOM (Document Object Model) and client-server communication.						

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Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form			
	written exam	Grade	60	80	acc. to module agreement			
	Performance asset the semester	essment during	Assessment	Length (min.)	Weighting	Form		
			Grade		20	acc. to module agreement		
Classroom Attendance Requirement	None							
Learning material			-			-		
Comments								