Module description: Front End, Web and Software Engineering

Module Code	t.BA.DS.PM3.20HS
ECTS Credits	4
Language of Instruction/Examination	German
Organizational Unit	InIT
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 4* 4 lab lessons per semester week and half-class
Module Description	Students learn different frontend development technologies, starting with an introduction to web server development in Python. Afterwards, the focus is on the development of web pages for showing charts, employing technologies like HTML, CSS and JavaScript.
Module Content	• The module covers the following topics: **- Introduction to Web Server programming with Flask** • - Introduction to HTML and CSS • - Infrastructure of todays Web Solutions • - The JavaScript programming language • - Introduction to JavaScript • - Introduction to JavaScript chart libraries
Prerequisite Knowledge	https://gpmpublic.zhaw.ch/GPMDocProdDPublic/2_Studium/2_02_Grundlagen_Studium/T_CL_Modulauspraegungen_SM2025.pdf

Learning Objectives (Competences)	Students...	Competencies	Taxonomies
	Participants of this course get an overview of the most important standard technologies that are used for building web pages. They know the problems when accessing different devices as well as further aspects that are to be considered when developing a web page.	F	K1
	A webpage source can be read and understand. This includes the architecture and used libraries. Students can adapt the webpage.	M, F	K1, K2, K3
	Participants can develop their own web page using HTML and JavaScript as well as a chart library. They can deploy their page on a web server.	M, F	K1, K2, K3, K4, K5, K6

Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form
	other		0	0	acc. to module agreement

	Performance assessment during the semester	Assessment	Length (min.)	Weighting	Form
	Web Application Development *This goal of this project module is to develop and present a Web Application*	Grade		100	acc. to module agreement

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Classroom Attendance Requirement	None
Learning material	
Comments	