Module descripti	on: Computer Science Programn	ning 1					
Module Code	t.BA.XXI.PROG1.19HS						
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	Туре За						
	2 lecture lessons per semester week and class+ 2 lab bi-weekly lessons per semester and half-class						
Module Description	Introduction to software development with Python.						
Module Content Prerequisite Knowledge	Introduction to procedural proramming Elementary data types, variables and operators Conditional statements, logical variables Repetition statements (loops) Subprograms and parameters Regular expressions and text parsing Arrays, one and multi-dimensional Strings and files Modules and libraries https://gpmpublic.zhaw.ch/GPMDocProdDPublic/2_Studium/2_02_Grundlagen_Studium/T_C						
Learning Objectives (Competences)	L_Modulauspraegungen_SM2025.pdf Students	Competencies	Taxonomies				
	<ul> <li>(3) In doing this, they are able to: - proceed in a structured manner;</li> </ul>	SE, F, M	K3, K4				
	(1) They know the basic data types and the essential procedural constructs.	F	K1, K2				
	(4) - apply procedural constructs and data types M appropriate to the situation; - use pre-defined modules from libraries.		K3, K4				
	(2) They are able to develop independently software solutions (approximately one A-4 page) for limited problems in a modern scripting language.	M, F	K3, K5				

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Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form				
	written exam	Grade	90	80	acc. to module agreement				
	Performance asses the semester	sment during	Assessment	Length (min.)	Weighting	Form			
	Exercises Excercises during the semester		Grade		20	acc. to module agreement			
Classroom Attendance Requirement	None								
Learning material									
Comments									