



Valid from 2026.HS

Module description: Computer Science Programming 1			
Module Code	t.BA.XX11.PROG1.26HS		
ECTS Credits	4		
Language of Instruction/Examination	German		
Organizational Unit	InIT		
Module Coordinator	Leonardo Militano		
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 weekly lab lessons per semester and half-class		
Module Description	Introduction to software development with Python.		
Module Content	Introduction to procedural programming 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		
Prerequisite Knowledge	https://gpmpublic.zhaw.ch/GPMDocProdDPublic/2_ Studium/2_02_Grundlagen_ Studium/T_C L_Modulauspraegungen_SM2025.pdf		
Learning Objectives (Competencies)	Students...	Competencies	Taxonomies
	(1) They know the basic data types and the essential procedural constructs.	F	K1, K2
	(2) They are able to develop independently software solutions (approximately one A-4 page) for limited problems in a modern scripting language.	F, M	K3, K5
	(3) In doing this, they are able to: - proceed in a structured manner;	SE, M, F	K3, K4
	(4) - apply procedural constructs and data types appropriate to the situation; - use pre-defined modules from libraries.	M	K3, K4

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Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Social Form	Scenario/Format
	written exam		90	80%	acc. to module agreement	
		Assessment	Length (min.)	Weighting	Social Form	Scenario/Format
	<i>Exercises Excercises during the semester</i>	Grade		20%	acc. to module agreement	
Classroom Attendance Requirement	None					