Module description: Programming 1							
Module Code	t.BA.IT.PROG1.19HS						
ECTS Credits	4						
Language of Instruction/Examination	German						
Organizational Unit	InIT						
Module Coordinator	Patrick Feisthammel						
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	Creating excellent, readable and maintainable code is a central requirement for all software projects. In this module, students learn the basics of object-oriented programming and can develop and test high quality and maintainable code after just a few classes.						
Module Content	• Basic techniques and concepts are introduced by way of examples and applied in-depth in labs. This includes the concepts of object-oriented programming (classes, objects, etc.), the basics of programming (data types, control structures, etc.), basic principles and practices of clean code, software quality assurance (documentation and unit testing), inheritance, composition and polymorphism.						
Prerequisite Knowledge	Basic programming knowledge is expected or can be acquired in a preparatory course offered by ZHAW.						
Learning Objectives	Students Co			Comp	mpetencies Taxonomies		
(competences)	Students are able to judge the quality of code and the structure of a program to the extent of a few classes, and derive ways for improvement.				M, F K4		K4
	Students can develop and test excellent, readable and maintainable code to the extent of a few classes.M, FK2, K3					K2, K3	
	Students understand and are able to apply the basic principles of object-oriented programming.F, MStudents can analyse problems from an object-orientation perspective and develop suitable solutions.M, F						K2, K3
							K4, K5, K6
Performance Assessment	End-of-module exam	Assessment	Length (min.)	Wei	Weighting Form		
	written exam	Grade	120	85		acc. to module agreement	
	Performance assessment during the semesterLearning control questions Graded assignments during teaching semester		Assessment Leng (min		gth \ 1.)	Neighting	Form
			Grade	de		15	acc. to module agreement
Classroom Attendance Requirement	None						
Learning material	 Java lernen mit BlueJ, 6. Auflage, David J. Barnes und Michael Kölling, ISBN: 978-3-8689- 4907-0 						

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Comments	None			