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Module descripti	on: Physics 1							
Module Code	t.BA.WIP.PHY1.19HS							
ECTS Credits	4							
Language of Instruction/Examination	German							
Organizational Unit	IAMP							
Module Coordinator	Francesca Venturini							
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	Students learn to describe, experimentally investigate, analyse and model natural, technical and economic dynamic systems. They deepen their knowledge of physical and business processes, build their process thinking and analogy thinking and learn to use key computeraided tools.							
Module Content	 Physics of idraulic systems (capacity, resistance, induction) Physics of electrical systems (capacity, resistance, induction) Energy Physics of thermal systems Mathamatical system science 							
Prerequisite Knowledge	https://gpmpublic.zhaw.ch/GPMDocProdDPublic/2_Studium/2_02_Grundlagen_Studium/T_C L_Modulauspraegungen_SM2025.pdf							
Learning Objectives (Competences)	Students	Competencies	Taxonomies					
	You can apply scientific knowledge to recognize questions, to acquire new knowledge, to describe scientific / technical phenomena and to draw conclusions from evidence.	M, F	К3					
	You are familiar with indirect interactions, feedback, and networks of effects.	F	K1					
	You are familiar with the scientific way of working (scientific literacy).	F, M	K1					
	You are able to distinguish scientific explanations and theories from other non-scientific forms of knowledge.	F, M	K1					
	You can analyze and transform data sets.	М	K4					
	You are able to plan and carry out your own experiments. F							

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Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form				
	written exam	Grade	90	60	acc. to module agreement				
	Performance assessment during the semester		Assessment	Length (min.)	Weighting	Form			
	written exam		Grade	45	20	acc. to module agreement			
	report		Grade	0	20	acc. to module agreement			
Classroom Attendance Requirement	None								
	Presence required for laboratory activities								
Learning material									

Comments