

Module description: Physics 2			
Module Code	t.BA.WIP.PHY2.19HS		
ECTS Credits	4		
Language of Instruction/Examination	German		
Organizational Unit	IAMP		
Module Coordinator	Elisabeth Dumont		
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 business dynamic systems. They deepen their knowledge of physical, chemical and business processes, build their process thinking and analogy thinking and learn to use key computer-aided tools.		
Module Content	<ul style="list-style-type: none"> • Thermal systems, chemical systems (mass transport and reaction kinetics) • Ecosystems and resources • Economical systems (warehousing, competition) • Mathematical systems science 		
Prerequisite Knowledge	https://gpmpublic.zhaw.ch/GPMDocProdDPublic/2_Studium/2_02_Grundlagen_Studium/T_C_L_Moduluspraegungen_SM2025.pdf		
Learning Objectives (Competences)	Students...	Competencies	Taxonomies
	are familiar with indirect cause-effect relationships, feedback and networks of effects.	F, M	K1
	You can analyze and transform data sets.	M, F	K4
	They are able to distinguish scientific explanations and theories from other non-scientific forms of knowledge.	F, M	K1
	They are familiar with scientific working methods (scientific literacy).	M, F	K3
	They are able to plan and carry out their own experiments.	M	K3
	They can apply scientific knowledge to identify issues, acquire new knowledge, describe scientific/technical phenomena and draw conclusions from evidence.	M	K3

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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					
	written + oral	Grade		20	acc. to module agreement	
	written exam	Grade	45	10	acc. to module agreement	
	written exam	Grade	45	10	acc. to module agreement	
Classroom Attendance Requirement	None					
Learning material						
Comments						