Module descripti	on: CAD for A	V							
Module Code	t.BA.AVI.CAD.19HS								
ECTS Credits	2								
Language of Instruction/Examination	German								
Organizational Unit	IPP								
Module Coordinator	Peter Hug								
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 1b								
Module Description	 2 lecture lessons per semester week and half-class CAx-Basics in practice Students are familiarised with the handling and application of modern CAx programs for product development and production. The module provides a broad overview of CAx tools such as sketching, modelling, simulating, visualising, animating, 3D documentation, 3D printing and VR (virtual reality). 								
Module Content	 Introduction to the CAx technologies Sketching -> with CAD Individual parts (Part Design) Combinations (Assembly Design) Visualizations with rendering tools 3D documentation/animation VR in product development / for services / in training 								
Prerequisite Knowledge	https://gpmpublic.zhaw.ch/GPMDocProdDPublic/2_Studium/2_02_Grundlagen_Studium/T_C L_Modulauspraegungen_SM2025.pdf								
Learning Objectives (Competences)	Students	Students				Competencies Taxono			
	are able to model individual parts & assembly structures in the CAD				F		К2		
	are aware of methodologically good approaches for modeling individual parts and structuring assemblies				М		K2		
	receive knowledge about methods in a modern CAD/PLM environment				М		K2		
	recognize the application of the basic CAD functions (Sketcher, PartDesign, Assembly)				F		K2		
		recognize CAx applications for visualization, simulation, 3D documentation/animation, 3D printing, VR				F		К2	
	Can independently pick up knowledge from tutorials and put it into practice					М К2			
Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weigl	ighting Form				
	written exam	Grade	90	acc. to module agreement					
	_				Length W (min.)		eighting Form		
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Module description: CAD for AV				
Classroom Attendance Requirement	None			
Learning material				
Comments	CAD lessons take place in half-classes (max 20 people) in classrooms specially equipped with CAD workstations.For students without prior technical knowledge, we recommend visiting the "Technical Drawing/CAD" pre-course.			