Module descript	ion: Product Development for Sys	tems Eng	ineering					
Module Code	t.BA.ST.PM2.19HS							
ECTS Credits	4							
Language of Instruction/Examination	German							
Organizational Unit	IMS							
Module Coordinator	Michael Wüthrich							
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 4* 4 lab lessons per semester week and half-class							
Module Description	Students extend their skills in the field of product development, teamwork and the transfer of learned factual knowledge into experiential knowledge. This is done taking a practical example in product development from the field of mechatronics. development.							
Module Content Prerequisite Knowledge	 1. Independent learning of theory with the support of lecturers: Procedure for developing mechatronic products Drafting a technical report Citing sources correctly Conducting research Situational, if needed in the project: Selection and calculation of machine elements Fundamentals of simulation of mechanical systems Excersises Group work: product development project from the initial idea to the final design (CAD, 3d model) Technical presentation Technical report Visit of PM1							
Learning Objectives (Competences)	Students	Competencies	Taxonomies					
	Overview:Students gain a deeper understanding of the methodology applied in the development of mechatronic products by working on a practical task (project). In teams, they demonstrate their ability to work independently and to focus on the project goals.	F	K2					
	(1) They apply the methodology for developing mechatronic products they learnt in the previous semester and work independently in project teams.	M, SO	К3					
	(3) They are able to form and organise an effective project group, to work independently as a team on an assignment and to give appropriate feedback.							
	(2) They can develop and rate project concepts from the initial idea to the final design and visualise their results with the help of drawings, simulations and CAD models.							

Module description: Product Development for Systems Engineering 2

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Performance Assessment	End-of-module exam	Assess	ment	Leng	gth (min.)	Weightin	g	Form	
	other					0			
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	Performance assessment the semester	during	Assess	ment	Length (min.)	Weighting	For	m	
	report		Grade			70	acc mod agre		
	Presentation		Grade			30	acc mod agre		
Classroom Attendance Requirement	None Active participation in the team is required for a sufficient grade.								
Learning material									
Comments	The exact number and type of performance records (exams, reports, presentations) depends on the practical project, so there may be some adjustments to during the semester.								