

Module description: Machine Elements 1						
Module Code	t.BA.MTME1.19HS					
ECTS Credits	2					
Language of Instruction/Examination	German					
Organizational Unit	IPP					
Module Coordinator	Adrian Fassbind					
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 1a 2 lecture lessons per semester week and class					
Module Description	Students learn the fundamentals of machine elements in mechanical engineering.					
Module Content	<ul style="list-style-type: none"> In "machine elements 1" the students acquire the knowledge of the basics, the application and selection of roller bearings, shaft-hub connections (SHC), couplers and tolerances 					
Prerequisite Knowledge						
Learning Objectives (Competences)	Students...		Competencies	Taxonomies		
	Know the basics of the machine elements rolling bearings, shaft-hub connections (WNV), couplings and tolerances and can list these.		F	K1		
	Can describe the properties of the machine elements covered.		F	K2		
	Know and understand the most important design rules of the machine elements covered and can present them.		F	K1, K2		
	Are able to apply and explain the design rules in case studies.		F	K3		
	Understand the calculation and design methods of the machine elements covered.		F	K2		
	Can apply the calculation and design methods in case studies and carry out written calculations.		F	K3		
Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form	
	written exam	Grade	90	80	acc. to module agreement	
	Performance assessment during the semester					
	Performance assessment during the semester		Assessment	Length (min.)	Weighting	Form
	Shorttests		Grade	5	5	acc. to module agreement
	written exam		Grade	90	15	acc. to module agreement
Classroom Attendance Requirement	None					

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Learning material	<ul style="list-style-type: none">• Lecture notes as well as exercises and required supplier documents on moodle• Spura & Fleischer & Wittel & Janasch Roloff/Matek Maschinenelemente. Springer. ISBN 978-3-658-34159-6.
Comments	