

<b>Module description: Bachelor Thesis: Mechanical Engineering</b>			
<b>Module Code</b>	t.BA.MT.BA.19HS		
<b>ECTS Credits</b>	12		
<b>Language of Instruction/Examination</b>	German		
<b>Organizational Unit</b>	MEA Ltg.		
<b>Module Coordinator</b>	Thomas Wenzler		
<b>Legal Framework</b>	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.		
<b>Module Characteristic</b>	Type 7 Bachelor's thesis		
<b>Module Description</b>	Within this bachelor thesis the students perform their individual analyses of a topic which is centred in the topic of your chosen study specification of the mechanical engineering studies in close collaboration with the partner from industry and the supervising lecturer.		
<b>Module Content</b>	<ul style="list-style-type: none"> <li>• The bachelor thesis involves independent work on a comprehensive, practice-oriented, technical and scientific research issue. The research question may come from research and development within an Institute or Centre, or directly from industry partners.</li> <li>• The project (bachelor thesis) consists of several steps, including an analysis of the problem and structuring and planning of the project according to a schedule. Depending on the research question, students carry out experimental studies and/or design models and conduct simulations. The results provide a solution to the original research problem. Students are able to critically evaluate the results and can identify whether their aims have been fulfilled and whether the requirements of the task have been met.</li> <li>• During the bachelor thesis, students report regularly on their progress and discuss the next steps. Students document the project and findings in a technical report. The summary of the report is to be written in German and in English. The results are also to be presented orally.</li> </ul>		
<b>Prerequisite Knowledge</b>			
<b>Learning Objectives (Competences)</b>	<b>Students...</b>	<b>Competencies</b>	<b>Taxonomies</b>
	Students are able to use the knowledge and skills from their studies to solve practical problems. They can use their new knowledge from the scholarly literature to develop new solutions to problems.	F, SO, SE, M	K5
	Students generally work in pairs and communicate regularly with the industry partner and the supervising lecturer.	SO, SE	K4
	Students gain competence in acquiring technical information independently, including research findings from various sources, and in particular from scholarly literature and specialised publications.	F, M	K4
	Students are able to formulate the research problem and plan the project independently.	M, F	K2
	By working on a practice-related problem in the field of Mechanical Engineering, possibly in collaboration with industry partners, students gain an insight into the process of thinking and behaving like an engineer.	F, SE, M, SO	K6
	Students are able to critically evaluate findings in order to say whether their aims have been achieved.	M, F	K6
	Students are able to present their research findings orally and in a written technical report.	M, SO, SE	K5

## Module description: Bachelor Thesis: Mechanical Engineering

<b>Performance Assessment</b>	<b>End-of-module exam</b>	<b>Assessment</b>	<b>Length (min.)</b>	<b>Weighting</b>	<b>Form</b>	
	other	Grade		100	acc. to module agreement	
	<b>Performance assessment during the semester</b>		<b>Assessment</b>	<b>Length (min.)</b>	<b>Weighting</b>	<b>Form</b>
	-		-	-	-	-
<b>Classroom Attendance Requirement</b>	None					
<b>Learning material</b>						
<b>Comments</b>						