

<b>Module description: Project Thesis: Data Science</b>			
<b>Module Code</b>	t.BA.DS.PA.20HS		
<b>ECTS Credits</b>	6		
<b>Language of Instruction/Examination</b>	German		
<b>Organizational Unit</b>	MPS Ltg.		
<b>Module Coordinator</b>	Manuel Dömer		
<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 6 Project work		
<b>Module Description</b>	The project thesis consists of working independently on a concrete scientific question or engineering problem from the field of data science.		
<b>Module Content</b>	<ul style="list-style-type: none"> <li>• The project thesis is the independent work on a practice-oriented technical-scientific problem. The students apply the knowledge acquired during their studies and prove with the successful completion that they are able to work in engineering science.</li> <li>• A project thesis consists of a conceptual part, in which the theoretical and methodological foundations for answering the question are formulated, its technical realisation or implementation, and the scientific presentation and discussion of the results.</li> <li>• The project thesis is usually carried out in a team of two (group work) under the guidance of a supervisor.</li> <li>• The supervisor offers professional support to achieve the goals according to the assignment. While working on the project thesis, students regularly report on the progress of their work and discuss the further course with their supervisor.</li> <li>• The results are documented in a scientific-technical report.</li> </ul>		
<b>Prerequisite Knowledge</b>			
<b>Learning Objectives (Competences)</b>	<b>Students...</b>	<b>Competencies</b>	<b>Taxonomies</b>
	identify the resources required for a given data science project.	M, F	K4
	carry out a literature search according to scientific criteria.	M, F	K3
	create a comprehensive project plan.	F, M	K5
	independently acquire missing knowledge required to carry out the project.	F, M, SE	K6
	implement the planned technical components independently.	M, F, SE	K3
	evaluate the success of the project based on defined criteria and identify opportunities for improvement.	M, SE, F	K6
	document the results of their work in the form of a scientific or technical report.	F, M	K3

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<b>Performance Assessment</b>	<b>End-of-module exam</b>	<b>Assessment</b>	<b>Length (min.)</b>	<b>Weighting</b>	<b>Form</b>	
	report	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>
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<b>Classroom Attendance Requirement</b>	None					
<b>Learning material</b>						
<b>Comments</b>						