Module description: Bachelor Thesis: Data Science

Module Code	t.BA.DS.BA.20HS
ECTS Credits	12
Language of Instruction/Examination	German
Organizational Unit	MPS Ltg.
Module Coordinator	Manuel Dömer
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 7 Bachelor's thesis
Module Description	The bachelor thesis consists of working independently on a concrete scientific question or engineering problem from the field of data science.
Module Content	- The bachelor 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. - A bachelor 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. - The thesis is usually carried out in a team of two (group work) under the guidance of a supervisor. - The supervisor offers professional support to achieve the goals according to the assignment. While working on the bachelor thesis, students regularly report on the progress of their work and discuss the further course with their supervisor. - The results are documented in a scientific-technical report and presented in a colloquium.
Prerequisite Knowledge	Successful completion of the project work module

Learning Objectives (Competences)	Students...	Competencies	Taxonomies
	identify the resources required for a given data science project.	F, M	K4
	carry out a literature search according to scientific criteria.	F, M	K3
	create a comprehensive project plan.	M, F	K4, K5
	independently acquire missing knowledge required to carry out the project.	M, SE, F	K6
	implement the planned technical components independently.	F, SE, M	K3
	evaluate the success of the project based on defined criteria and identify opportunities for improvement.	SE, F, M	K6
	document the results of their work in the form of a scientific or technical report and present them in a colloquium.	F, M	K3

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Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form
	other			100	acc. to module agreement

	Performance assessment during the semester	Assessment	Length (min.)	Weighting	Form
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Classroom Attendance Requirement	None
Learning material	
Comments	