

**Hauptstudienrichtung Data bases and knowledge representation (DW) für den Masterstudiengang Data Science (gem. § 51 FPODataScience)**

Modul Nr.	Modulbezeichnung	Modulverantwortlicher	Lehrveranstaltung	SWS					Gesamt ECTS	Workload-Verteilung pro Semester in ECTS-Punkten:				Art und Umfang der Prüfung/Studienleistung	Modul Nr.
				V	Ü	P	S	T		1. Sem	2. Sem	3. Sem	4. Sem		
4-5	Data Structure Engineering <sup>1</sup>	Viktor Leis	Data Structure Engineering	2					5		[ 5 ]		[ 5 ]	Oral exam (30 min.)	4-5
			Übungen zu Data Structure Engineering		2							[ ]			
	eBusiness Technologies und Evolutionäre Informationssysteme <sup>2</sup>	Richard Lenz	eBusiness Technologies	2					5	[ 5 ]		[ 5 ]		Oral exam (30 min.)	
			Evolutionäre Informationssysteme	2							[ ]		[ ]		
	Knowledge Discovery in Databases mit Übung	Richard Lenz	Übungen zu KDD		2				5		[ ]		[ ]	Written exam (90 min.)	
			Knowledge Discovery in Databases	2							[ 5 ]		[ 5 ]		
	Künstliche Intelligenz I <sup>3</sup>	Michael Kohlhase	Artificial Intelligence I	4					7.5	[ 7.5 ]		[ 7.5 ]		Written exam (90 min.)	
			Übungen zu Artificial Intelligence I		2						[ ]		[ ]		
	Künstliche Intelligenz II <sup>3</sup>	Michael Kohlhase	Artificial Intelligence II	4					7.5		[ 7.5 ]		[ 7.5 ]	Written exam (90 min.), bonus points via exercises	
			Übungen zu Artificial Intelligence II		2						[ ]		[ ]		
Middleware - Cloud Computing V+EÜ <sup>2</sup>	Tobias Distler	Middleware - Cloud Computing	2					7.5	[ 7.5 ]		[ 7.5 ]		Oral exam (30 min.), homeworks (ungraded)		
		Übungen zu Middleware - Cloud Computing		2						[ ]		[ ]			
		Übungen zu Middleware - Cloud Computing (Rechnerübungen)			2					[ ]		[ ]			
Project seminar	Project responsables	Project seminar				4		5	[ 10 ]	[ 10 ]	[ 10 ]		Presentation, code, report		
		Project seminar				2				[ 5 ]	[ 5 ]	[ 5 ]			
Query Processing on Modern Hardware <sup>1</sup>	Viktor Leis	Query Processing on Modern Hardware	2					5	[ 5 ]		[ 5 ]		Oral exam (30 min.)		
		Übungen zu Query Processing on Modern Hardware		2						[ ]		[ ]			
<b>Summe Hauptstudienrichtung Data bases and knowledge representation (DW) für den Masterstudiengang Data Science</b>								<b>30</b>	<b>5-15</b>	<b>5-15</b>	<b>10</b>	<b>0</b>			
								<b>20</b>	<b>5-15</b>	<b>5-15</b>	<b>0</b>	<b>0</b>			

**Fußnoten:**

<sup>1</sup> The teaching and examination language is German and English .

<sup>2</sup> This module is offered in German only.

<sup>3</sup> The teaching and examination language is German or English (at the student's choice).