## **Course of Study Data Science (Study Cohort w21)**

Discrete Algebraic Structures     VL     2       Discrete Algebraic Structures     00     2					Core Qualification Elective Cor	npulsory Specialisation Elective Compulsory	Focus Elective	Compulsory	Interdisciplinary comp	lement
Discrete Algebraic Structures VL 2										
Discrete Algebraic Structures VL 2										
Discrete Algebraic Structures VL 2										
-	Automata Theory and Formal Languages		Databases	Signals and Systems		Introduction to Information Security		Seminars Computer		
Discrete Algebraic Structures GÜ 2	Automata Theory and Formal Languages	VL 2	Databases VL		VL 3	Introduction to Information Security	VL 2	Introductory Seminar Computer Science II		SE 2
	Automata Theory and Formal Languages	GÜ 2	Databases GŪ	1 Signals and Systems	GÜ 2	Introduction to Information Security	GÜ 2	Introductory Seminar (	Computer Science I	SE 2
Procedural Programming for Computer Engineers	Stochastics		Numerical Mathematics I	Foundations of Manageme		Data Mining		Ethics in Information	n Technology	
Procedural Programming for Computer Engineers VL 1	Stochastics	VL 2	Numerical Mathematics I VL	2 Introduction to Management	VL 3	Data Mining	VL 2	Ethics in Information T	echnology	VL 2
Procedular Programming for Computer Engineers HÜ 1	Stochastics	GÜ 2	Numerical Mathematics I GÜ	2 Management Tutorial	GÜ 2	Data Mining	PBL 2	Ethics in Information T	echnology	SE 2
Procedural Programming for Computer Engineers PR 2										
Mathematics I (EN)	Programming Paradigms		Algorithms and Data Structures	Graph Theory and Optimiz	ation	Machine Learning II		Computability and C	Complexity Theory	
Analysis I VL 2	Programming Paradigms	VL 2	Algorithms and Data Structures VL	4 Graph Theory and Optimizati		Machine Learning II	VL 2	Computability and Con	nplexity Theory	VL 2
Analysis I HŪ 1	Programming Paradigms	HÜ 1	Algorithms and Data Structures GÜ	1 Graph Theory and Optimizati	on GÜ 2	Machine Learning II	GÜ 3	Computability and Con	nplexity Theory	GÜ 2
	Programming Paradigms	PR 2								
Linear Algebra I VL 2										
Linear Algebra I HŪ 1										
Linear Algebra I GÜ 1										
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	Mathematics II (EN)		Statistics	Scientific Programming		Simulation of Transport and Handling Sys		<b>Bachelor Thesis</b>		
	Analysis II	VL 2	Statistics VL		VL 3	Simulation of Transport and Handling Systems				
Traffic systems and handling technology	Analysis II	HÜ 1	Statistics GŪ	1 Scientific Programming	GÜ 2	Simulation of Transport and Handling Systems	GÜ 3			
	Analysis II	GÜ 1								
Transport- and Handling-Technology VL 2 Transport- and Handling-Technology GÜ 2	Linear Algebra II	VL 2								
Transporte and Handling-reciniology Go 2	Linear Algebra II	HÜ 1 GÜ 1								
	Linear Algebra II	GU I								
			Mathematics III (EN)	Machine Learning I						
			Analysis III VL		VL 2					
	Logistics Management		Analysis III HÜ		GÜ 2					
	Logistics Hanagement	PBL 3	Analysis III GÜ							
	Introduction into Production Logistics	VL 2	Differential Equations 1 VL Differential Equations 1 HÜ							
			Differential Equations 1 HU Differential Equations 1 GŪ							
			Unerential Equations 1 GU							
Non-technical Courses for Bachelors (from	catalogue) 6LP									

Thesis Compulsory

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.