Course of Study Data Science (Study Cohort w21)

pecial	isation Electrical Engineering										
	Discrete Algebraic Structures VL 2 Discrete Algebraic Structures GÜ 2	Automata Theory and Formal Languages Automata Theory and Formal Languages Automata Theory and Formal Languages	VL 2 GÜ 2	Databases Databases Databases	VL 3 GŪ 1	Signals and Systems Signals and Systems Signals and Systems	VL 3 GÜ 2	Introduction to Information Security Introduction to Information Security Introduction to Information Security	VL 2 GÜ 2	Seminars Computer Science Introductory Seminar Computer Science II Introductory Seminar Computer Science I	SE SE
	Procedural Programming for Computer Engineers	Stochastics		Numerical Mathematics I		Foundations of Management		Data Mining		Ethics in Information 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 Technology	VL
_	Procedular Programming for Computer Engineers HŪ 1 Procedural Programming for Computer Engineers PR 2	Stochastics	GÜ 2	Numerical Mathematics I	GŪ 2	Management Tutorial	GÜ 2	Data Mining	PBL 2	Ethics in Information Technology	SE
0											
1											
2											
3	Mathematics I (EN)	Programming Paradigms		Algorithms and Data Structures		Graph Theory and Optimization		Machine Learning II		Introduction into Medical Technology and	
	Analysis I VL 2 Analysis I HŪ 1	Programming Paradigms Programming Paradigms	VL 2 HÜ 1	Algorithms and Data Structures Algorithms and Data Structures	VL 4 GŪ 1	Graph Theory and Optimization Graph Theory and Optimization	VL 2 GÜ 2	Machine Learning II Machine Learning II	VL 2 GÜ 3	Introduction into Medical Technology and Systems	VL
	Analysis I HU I Analysis I GÜ 1	Programming Paradigms Programming Paradigms	PR 2	Algorithms and Data Structures	GU I	Graph Theory and Optimization	GU 2	Machine Learning II	GU 3	Introduction into Medical Technology and	PS
5	Linear Algebra I VL 2									Systems	
7	Linear Algebra I HÜ 1									Introduction into Medical Technology and	ΗÜ
8	Linear Algebra I GÜ 1									Systems	
9		Mathematics II (EN)		Statistics		Scientific Programming		Image Processing		Bachelor Thesis	
)		Analysis II	VL 2	Statistics	VL 3	Scientific Programming	VL 3	Image Processing	VL 2		
1	Electrical Engineering I: Direct Current Networks and	Analysis II	HÜ 1	Statistics	GŪ 1	Scientific Programming	GÜ 2	Image Processing	GÜ 2		
_	Electromagnetic Fields	Analysis II Linear Algebra II	GÜ 1 VL 2								
2	Electrical Engineering I: Direct Current Networks VL 3	Linear Algebra II	HÜ 1								
3	and Electromagnetic Fields	Linear Algebra II	GÜ 1								
4	Electrical Engineering I: Direct Current Networks GÜ 2 and Electromagnetic Fields										
5				Mathematics III (EN)		Machine Learning I					
5				Analysis III	VL 2	Machine Learning I	VL 2				
7		Electrical Engineering II: Alternating Currer	t Notworks	Analysis III	HÜ 1	Machine Learning I	GÜ 2				
_		and Basic Devices	it Networks	Analysis III Differential Equations 1	GÜ 1 VL 2						
3		Electrical Engineering II: Alternating Current	VL 3	Differential Equations 1	HÜ 1						
)		Networks and Basic Devices		Differential Equations 1	GŪ 1						
		Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2								
								-			

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