Course of Study Data Science (Study Cohort w22)

	-			-		Core Qualification Compulsor	y Specialisation Compulsory	Focus Compul	sory Thesis (Compulsory
ample	mple course plan L Bachelor Data Science (DSBS)					Core Qualification Elective Co	mpulsory Specialisation Elective Compulsory	Focus Elective	Compulsory Interdis	ciplinary complement
pecial	isation I. Mathematics/Computer Sci	ence, Specialisation II. Applic	ation							
	- -									
1	Discrete Algebraic Structures	Automata Theory and Formal Languages		Databases	Signals and Systems		Introduction to Information Security		Ethics in Information Techn	
2	Discrete Algebraic Structures VL 2 Discrete Algebraic Structures GÜ 2	Automata Theory and Formal Languages Automata Theory and Formal Languages	VL 2 GÜ 2	Databases VL 2 Databases - Exercise GÜ		VL 3 GÜ 2	Introduction to Information Security Introduction to Information Security	VL 2 GÜ 2	Ethics in Information Technolog Ethics in Information Technolog	
3	Discrete Algebraic Structures GO 2	Automata meory and Formar Languages	GU 2	Databases - Exercise GU .	Signals and Systems	00 2	introduction to mornation security	00 z	Ethics in mornation recinolog	Jy 5⊏ 2
4										
5										
6										
7	Procedural Programming for Computer Engineers	Stochastics		Numerical Mathematics I	Graph Theory and Optimiz	ation	Data Mining		MED I: Introduction to Anat	omy
8	Procedural Programming for Computer Engineers VL 2	Stochastics	VL 2	Numerical Mathematics I VL	Graph Theory and Optimizati	on VL 2	Data Mining	VL 2	Introduction to Anatomy	VL 2
9	Procedural Programming for Computer Engineers HÜ 1	Stochastics	GÜ 2	Numerical Mathematics I GÜ	Graph Theory and Optimizati	on GÜ 2	Data Mining	PBL 2		
	Procedural Programming for Computer Engineers PR 2									
10									MED I: Introduction to Radio	ology and Radiation
11									Therapy Introduction to Radiology and F	Dediction Theorem 10 D
12									Introduction to Radiology and F	Radiation Therapy VL 2
13	Mathematics I (EN)	Foundations of Management		Algorithms and Data Structures	Seminars Computer Scien	60	Machine Learning II		Bachelor Thesis	
	Mathematics I VL 4	Introduction to Management	VL 3	Algorithms and Data Structures VL			Machine Learning II	VL 2	bachelor mesis	
14	Mathematics I HŪ 2	Management Tutorial	GÜ 2	Algorithms and Data Structures GÜ	Introductory Seminar Compu		Machine Learning II	GÜ 3		
15	Mathematics I GÜ 2									
16										
17										
18										
19		Programming Paradigms		Statistics	Scientific Programming		Image Processing			
20		Programming Paradigms Programming Paradigms	VL 2 HÜ 1	Statistics VL Statistics GÜ		VL 3 GÜ 2	Image Processing Image Processing	VL 2 GÜ 2		
21	Introduction to Data Science	Programming Paradigms	PR 2	Statistics GU .	Sciencine Programming	00 2	image Processing	GU 2		
22	Introduction to Data Science VL 2									
23	Introduction to Data Science SE 1									
24										
25		Mathematics II (EN)		Mathematics III (EN)	Machine Learning I		Introduction to Data Acquisition and Pro	cessing		
26		Mathematics II	VL 4	Analysis III VL 2		VL 2	Measurements: Methods and Data Processing			
27		Mathematics II	HÜ 2	Analysis III HÜ	· · · · · · · · · · · · · · · · · · ·	GÜ 3	Measurements: Methods and Data Processing	-		
		Mathematics II	GÜ 2	Analysis III GÜ : Differential Equations 1 VL :			Data Acquisition and Data Processing	PS 2		
28				Differential Equations 1 VL 2						
29				Differential Equations 1 GŪ						
30										
31										
32										
32										
	Non-technical Courses for Bachelors (from ca	talogue) - 6LP								

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