Course of Study Data Science (Study Cohort w23)

	lisation I. Mathematics/Computer Sc	,									
	Discrete Algebraic Structures	Automata Theory and Formal Languages		Databases		Signals and Systems		Introduction to Information Security	Ethics in Information	Technology	
	Discrete Algebraic Structures VL 2				L 3		VL 3	Introduction to Information Security VL			VL
	Discrete Algebraic Structures GÜ 2	Automata Theory and Formal Languages GÜ	2	Databases - Exercise Gi	Ū 2	Signals and Systems	GÜ 2	Introduction to Information Security GÜ	Ethics in Information Te	echnology	SE
	-										
	Procedural Programming for Computer Engineers	Stochastics		Numerical Mathematics I		Graph Theory and Optimization		Data Mining	Mathematics IV (EN)		
	Procedural Programming for Computer Engineers VL 2	Stochastics VL	. 2	Numerical Mathematics I V	L 2	Graph Theory and Optimization	VL 2	Data Mining VL 2	Differential Equations 2		VL
	Procedural Programming for Computer Engineers HŪ 1	Stochastics GÜ	2	Numerical Mathematics I G	Ū 2	Graph Theory and Optimization	GÜ 2	Data Mining PBL			HÜ
	Procedural Programming for Computer Engineers PR 2								Differential Equations 2		GŪ
0									Complex Functions Complex Functions		VL HÜ
1									Complex Functions		GÜ
2											-
3	Mathematics I (EN)	Foundations of Management		Algorithms and Data Structures		Seminars Computer Science		Machine Learning II	Bachelor thesis (dual	study program)	
4	Mathematics VL 4	Introduction to Management VL Management Tutorial GÜ		Algorithms and Data Structures V Algorithms and Data Structures GI	L 4 D 1	Introductory Seminar Computer Science II Introductory Seminar Computer Science I	SE 2 SE 2	Machine Learning II VL 2 Machine Learning II GÜ 3			
5	Mathematics I GÜ 2	Management Lutorial Go	2	Algorithms and Data Structures G	0 1	Introductory Seminar Computer Science i	SE Z	Machine Learning II GU :			
6	indicindes)										
7											
8											
9		Programming Paradigms		Statistics		Scientific Programming		Practical module 5 (dual study program, Bachelor's			
0					L 3		VL 3	degree)			
		Programming Paradigms HÜ	1	Statistics G	Ū 1	Scientific Programming	GÜ 2	Practical term 5			
1	Practical module 1 (dual study program, Bachelor's	Programming Paradigms PR	2								
2	degree) Practical term 1 0										
3	Trucked term 2										
4											
5		Mathematics II (EN)		Mathematics III (EN)		Machine Learning I		Introduction to Data Acquisition and Processing			
6		Mathematics II VL	. 4	Analysis III V	L 2	Machine Learning I	VL 2	Measurements: Methods and Data Processing VL 2			
				Analysis III H		Machine Learning I	GÜ 3	Measurements: Methods and Data Processing GÜ			
7	Introduction to Data Science Introduction to Data Science VL 2	Mathematics II GÜ			Ū 1			Data Acquisition and Data Processing PS 2			
8	Introduction to Data Science SE 2				L 2 Ü 1						
9					Ū 1						
0											
1						Practical module 4 (dual study program, Baci	helor's	Introduction to Control Systems			
2						degree)		Introduction to Control Systems VL 2			
3		Practical module 2 (dual study program, Bachelo	rie	Practical module 3 (dual study program, Bache	lor's	Practical term 4	0	Introduction to Control Systems GÜ			
	-	degree)		degree)	3						
4	-	Practical term 2		Practical term 3	0						
5											
6											
7	1										
8	1										
	Linking theory and practice (dual study prog										

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