Course of Study Data Science (Study Cohort w22)

mple	e course plan J Bachelor Data Scienc	ce (DSBS)					empulsory Specialisation Elective Compulsory	Focus Elective		plement
ecia	lisation I. Mathematics/Computer Sci	ence, Specialisation II. Applic	ation							
	Discrete Algebraic Structures  Discrete Algebraic Structures  VL 2  Discrete Algebraic Structures  GÜ 2	Automata Theory and Formal Languages Automata Theory and Formal Languages	VL 2	Databases Databases VL Databases - Exercise GÜ		VL 3 GÜ 2	Introduction to Information Security Introduction to Information Security Introduction to Information Security	VL 2 GÜ 2	Ethics in Information Technology Ethics in Information Technology Ethics in Information Technology	VL SE
	Discrete Algebraic Structures GU 2	Automata Theory and Formal Languages	GÜ 2	Databases - Exercise GÜ	2 Signals and Systems	GU 2	introduction to information Security	GU 2	etnics in information Technology	SE
	Procedural Programming for Computer Engineers	Stochastics		Numerical Mathematics I	Graph Theory and Optim	ization	Data Mining		Logistics Management	
	Procedural Programming for Computer Engineers VL 2	Stochastics	VL 2	Numerical Mathematics I VL			Data Mining	VL 2	Logistics Economics	PBL
	Procedural Programming for Computer Engineers HŪ 1	Stochastics	GÜ 2	Numerical Mathematics I GÜ	2 Graph Theory and Optimiza	ition GÜ 2	Data Mining	PBL 2	Introduction into Production Logistics	VL
0	Procedural Programming for Computer Engineers PR 2									
1										
2										
3	Mathematics I (EN)	Foundations of Management		Algorithms and Data Structures	Seminars Computer Scie	nce	Machine Learning II		Bachelor Thesis	
4	Mathematics I VL 4	Introduction to Management	VL 3	Algorithms and Data Structures VL			Machine Learning II	VL 2		
5	Mathematics I HŪ 2	Management Tutorial	GÜ 2	Algorithms and Data Structures GÜ	1 Introductory Seminar Comp	outer Science I SE 2	Machine Learning II	GÜ 3		
6	Mathematics I GÜ 2									
7										
8										
9		Programming Paradigms		Statistics	Scientific Programming		Introduction to Communications and Ran	dom		
0		Programming Paradigms	VL 2	Statistics VL	3 Scientific Programming	VL 3	Processes			
1	Introduction to Data Science	Programming Paradigms Programming Paradigms	HÜ 1 PR 2	Statistics GÜ	1 Scientific Programming	GÜ 2	Introduction to Communications and Random Processes	VL 3		
2	Introduction to Data Science VL 2 Introduction to Data Science SE 1						Introduction to Communications and Random Processes	HÜ 1		
3							Introduction to Communications and Random	GÜ 1		
4							Processes			
5		Mathematics II (EN)		Mathematics III (EN)	Machine Learning I		Image Processing			
6		Mathematics II	VL 4	Analysis III VL		VL 2	Image Processing	VL 2		
7		Mathematics II	HÜ 2		1 Machine Learning I	GÜ 3	Image Processing	GÜ 2		
	-	Mathematics II	GÜ 2	Analysis III GÜ						
8				Differential Equations 1 VL  Differential Equations 1 HÜ						
9				Differential Equations 1 GÜ						
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1	]								-	
2	1									
_	Non-technical Courses for Bachelors (from ca	stalogue) - 6l P								

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