Course of Study Data Science (Study Cohort w21)

Sample	ample course plan B Bachelor Data Science (DSBS)							Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Interdisciplinary comp			ment	
Special	isation Logistics											
1 2 3 4	_	L 2 Ü 2	Automata Theory and Formal Languages Automata Theory and Formal Languages Automata Theory and Formal Languages	VL 2 GÜ 2		. 3	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 2 SE 2
6												
7 8 9 10 11	Procedural Programming for Computer Engineer Procedural Programming for Computer Engineers VL Procedular Programming for Computer Engineers HU Procedural Programming for Computer Engineers PR	L 1 D 1	Stochastics Stochastics Stochastics	VL 2 GÜ 2	Numerical Mathematics I VL Numerical Mathematics I VL Numerical Mathematics I GÜ	. 2 ) 2	Foundations of Management Introduction to Management Management Tutorial	VL 3 GÜ 2	Data Mining Data Mining Data Mining	VL 2 PBL 2	Ethics in Information Technology Ethics in Information Technology Ethics in Information Technology	VL 2 SE 2
13 14 15 16 17 18	Analysis I         HÜ           Analysis I         GÜ           Linear Algebra I         VL           Linear Algebra I         HÜ	Ü 1 L 2	Programming Paradigms Programming Paradigms Programming Paradigms Programming Paradigms	VL 2 HÜ 1 PR 2	Algorithms and Data Structures  Algorithms and Data Structures  VL  Algorithms and Data Structures  GÜ	. 4 ) 1	Graph Theory and Optimizatio Graph Theory and Optimization Graph Theory and Optimization	on VL 2 GÜ 2	Machine Learning II Machine Learning II Machine Learning II	VL 2 GÜ 3	Enhanced Fundamentals of Materials Scien Materials for Energy Storage and Conversion Enhanced Fundamentals: Ceramics and Polymers Enhanced Fundamentals: Ceramics and Polymers	vL 2 VL 2 HÜ 1
19 20 21 22 23 24		L 2	Mathematics II (EN) Analysis II Analysis II Analysis II Linear Algebra II Linear Algebra II Linear Algebra II	VL 2 HÜ 1 GÜ 1 VL 2 HÜ 1 GÜ 1	Statistics Statistics VL Statistics GÜ	. 3	Scientific Programming Scientific Programming Scientific Programming	VL 3 GÜ 2	Introduction to Communications and Ran Processes Introduction to Communications and Random Processes Introduction to Communications and Random Processes Introduction to Communications and Random Processes	VL 3 HÜ 1	Bachelor Thesis	
25 26 27 28 29 30			Logistics Management Logistics Economics Introduction into Production Logistics	PBL 3 VL 2	Analysis III         HÜ           Analysis III         GÜ           Differential Equations 1         VL           Differential Equations 1         HÜ	. 2 ) 1 ) 1 . 2 ) 1	Machine Learning I Machine Learning I Machine Learning I	VL 2 GÜ 2				
31	Non-technical Courses for Bachelors (f											

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