Course of Study Data Science (Study Cohort w21)

	nple course plan D Bachelor Data Science (DSBS) Dual study program						C	Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Interdisciplinary complement				
pecial	isation₁Medicine _{For}	rm Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5 Fc	orm Hrs/wk	Semester 6	Form Hrs/wl
2	_	/L 2 5Ü 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		VL 2 GÜ 2	Seminars Computer Science Introductory Seminar Computer Science II Introductory Seminar Computer Science I	SE 2 SE 2
4												
6												
7	Procedural Programming for Computer Engineer		Stochastics		Numerical Mathematics I		Foundations of Management		Data Mining		Ethics in Information Technology	
8	Procedural Programming for Computer Engineers V		Stochastics	VL 2	Numerical Mathematics I	VL 2	Introduction to Management	VL 3		VL 2	Ethics in Information Technology	VL 2
9	Procedular Programming for Computer Engineers H Procedural Programming for Computer Engineers P		Stochastics	GÜ 2	Numerical Mathematics I	GŪ 2	Management Tutorial	GÜ 2	Data Mining P	PBL 2	Ethics in Information Technology	SE 2
10												
11												
13	Mathematics I (EN)		Programming Paradigms		Algorithms and Data Structures		Graph Theory and Optimization	n	Machine Learning II		Computability and Complexity Theory	
14		/L 2	Programming Paradigms	VL 2	Algorithms and Data Structures	VL 4	Graph Theory and Optimization	VL 2		VL 2	Computability and Complexity Theory	VL 2
15		10 1	Programming Paradigms	HÜ 1	Algorithms and Data Structures	GÜ 1	Graph Theory and Optimization	GÜ 2	Machine Learning II	3Ü 2	Computability and Complexity Theory	GÜ 2
16		iÜ 1 /L 2	Programming Paradigms	PR 2								
		1Ü 1										
17	Linear Algebra I Gi	6Ü 1										
19			Mathematics II (EN)		Statistics		Scientific Programming		Simulation of Transport and Handling System	s		
20			Analysis II	VL 2	Statistics	VL 3	Scientific Programming	VL 3	Simulation of Transport and Handling Systems			
21	MED II: Introduction to Biochemistry and Molec	cular	Analysis II	HÜ 1 GÜ 1	Statistics	GÜ 1	Scientific Programming	GÜ 2	Simulation of Transport and Handling Systems G	GÜ 3		
22	Biology	cuiai	Analysis II Linear Algebra II	VL 2								
		/L 2	Linear Algebra II	HÜ 1								
23	Biology		Linear Algebra II	GÜ 1								
24												
25					Mathematics III (EN) Analysis III	VL 2	Machine Learning I Machine Learning I	VL 2				
26					Analysis III	HÜ 1	Machine Learning I	GÜ 2				
27			MED I: Introduction to Anatomy		Analysis III	GÜ 1						
28			Introduction to Anatomy	VL 2	Differential Equations 1	VL 2						
29					Differential Equations 1 Differential Equations 1	HÜ 1 GÜ 1						
30			MED I: Introduction to Radiology and Radia	tion	Sinci citadi Equations 1	30 1						
31			Therapy				MED II: Introduction to Physiol	ogy				
32			Introduction to Radiology and Radiation Therapy	VL 2			Introduction to Physiology	VL 2				
33												
	Non-technical Courses for Bachelors (from catalogue) - 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.