Course of Study Data Science (Study Cohort w21)

	course plan C Bachelor Data	a Sciend	ce (DSBS) Dual study progra	m			C	Core Qualification Elective Cor	npulsory Specialisation Elective Compulsory	Focus Elective	Compulsory Interdisciplinary comp	olement
Special	isation ₁ Medicine	orm Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5	Form Hrs/wk	Semester 6	Form Hrs/wk
1	Discrete Algebraic Structures		Automata Theory and Formal Languages		Databases		Signals and Systems		Introduction to Information Security		Seminars Computer Science	
2		VL 2	Automata Theory and Formal Languages	VL 2	Databases	VL 3	Signals and Systems	VL 3	Introduction to Information Security	VL 2	Introductory Seminar Computer Science II	SE 2
3	Discrete Algebraic Structures	GÜ 2	Automata Theory and Formal Languages	GÜ 2	Databases	GÜ 1	Signals and Systems	GÜ 2	Introduction to Information Security	GÜ 2	Introductory Seminar Computer Science I	SE 2
4												
5												
6												
7	Procedural Programming for Computer Engin	eers	Stochastics		Numerical Mathematics I		Foundations of Management		Data Mining		Ethics in Information Technology	
8	Procedural Programming for Computer Engineers		Stochastics	VL 2	Numerical Mathematics I	VL 2	Introduction to Management	VL 3	Data Mining	VL 2	Ethics in Information Technology	VL 2
9	Procedular Programming for Computer Engineers		Stochastics	GÜ 2	Numerical Mathematics I	GÜ 2	Management Tutorial	GÜ 2	Data Mining	PBL 2	Ethics in Information Technology	SE 2
10	Procedural Programming for Computer Engineers	PR 2										
11												
12												
13	Mathematics I (EN) Analysis I	VL 2	Programming Paradigms Programming Paradigms	VL 2	Algorithms and Data Structures Algorithms and Data Structures	VL 4	Graph Theory and Optimization Graph Theory and Optimization	on VL 2	Machine Learning II Machine Learning II	VL 2	Introduction into Medical Technology an Introduction into Medical Technology and	d Systems VL 2
14		HÜ 1	Programming Paradigms	HÜ 1	Algorithms and Data Structures	GÜ 1	Graph Theory and Optimization	GÜ 2	Machine Learning II	GÜ 2	Systems	VL 2
15		GÜ 1	Programming Paradigms	PR 2							Introduction into Medical Technology and	PS 2
16		VL 2									Systems	
17		HŪ 1									Introduction into Medical Technology and	HÜ 1
18	Linear Algebra I	GÜ 1									Systems	
19			Mathamatica II (FN)		Statistics		Calantifia Buranananian		I B			
			Mathematics II (EN) Analysis II	VL 2	Statistics	VL 3	Scientific Programming Scientific Programming	VL 3	Image Processing Image Processing	VL 2		
20			Analysis II	HÜ 1	Statistics	GÜ 1	Scientific Programming	GÜ 2	Image Processing	GÜ 2		
21	MED II: Introduction to Biochemistry and Mol	ecular	Analysis II	GÜ 1								
22	Biology		Linear Algebra II	VL 2								
23	Introduction to Biochemistry and Molecular Biology	VL 2	Linear Algebra II	HÜ 1								
24			Linear Algebra II	GÜ 1								
25					Mathematics III (EN)		Machine Learning I					
26					Analysis III	VL 2	Machine Learning I	VL 2				
27			MED I: Introduction to Anatomy		Analysis III	HÜ 1	Machine Learning I	GÜ 2				
			Introduction to Anatomy Introduction to Anatomy	VL 2	Analysis III Differential Equations 1	GÜ 1						
28					Differential Equations 1 Differential Equations 1	VL 2 HÜ 1						
29					Differential Equations 1	GÜ 1						
30			MED I: Introduction to Radiology and Radia	tion								
31			Therapy				MED II: Introduction to Physic	logy				
32			Introduction to Radiology and Radiation Therapy	VL 2			Introduction to Physiology	VL 2				
33												
22	Non-tradesias Common for C	(6	t-l) CLD									
	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.