Course of Study Data Science (Study Cohort w21)

Sample	ample course plan A Bachelor Data Science (DSBS)								Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Interdisciplinary complement				
Special	isation₁Medicine _{Fort}	m 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	Discrete Algebraic Structures 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 Enginee		Stochastics		Numerical Mathematics I		Foundations of Management		Data Mining		Ethics in Information Technology		
8	Procedural Programming for Computer Engineers VL		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 HÜ Procedural Programming for Computer Engineers PR		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	Bachelor Thesis		
14	Analysis I HŪ		Programming Paradigms	HÜ 1	Algorithms and Data Structures	GÜ 1	Graph Theory and Optimization	GÜ 2	Machine Learning II	GÜ 2			
15	· ·) 1	Programming Paradigms	PR 2									
16	Linear Algebra I VL	_ 2											
17) 1											
18	Linear Algebra I GÜ) 1											
19			Mathematics II (EN)		Statistics		Scientific Programming		Functional Programming				
			Analysis II	VL 2	Statistics	VL 3	Scientific Programming	VL 3	Functional Programming	VL 2			
20			Analysis II	HÜ 1	Statistics	GÜ 1	Scientific Programming	GÜ 2	Functional Programming	HÜ 2			
21	MED II: Introduction to Biochemistry and Moleco	ular	Analysis II	GÜ 1					Functional Programming	GÜ 2			
22	Biology		Linear Algebra II	VL 2									
23	Introduction to Biochemistry and Molecular VL Biology	_ 2	Linear Algebra II	HÜ 1									
24			Linear Algebra II	GÜ 1									
25					Mathematics III (EN)		Machine Learning I		Engineering Mechanics III (Dynamics)				
					Analysis III	VL 2	Machine Learning I	VL 2	Engineering Mechanics III	VL 3			
26					Analysis III	HÜ 1	Machine Learning I	GÜ 2	Engineering Mechanics III	GÜ 2			
27			MED I: Introduction to Anatomy		Analysis III	GŪ 1			Engineering Mechanics III	HÜ 1			
28			Introduction to Anatomy	VL 2	Differential Equations 1	VL 2							
29					Differential Equations 1	HÜ 1							
30			MED I: Introduction to Radiology and Radia	tion	Differential Equations 1	GÜ 1							
			Therapy								I		
31			Introduction to Radiology and Radiation Therapy	VL 2			MED II: Introduction to Physi Introduction to Physiology	ology VL 2					
32							introduction to Physiology	VL 2					
33													
	Non-technical Courses for Bachelors (f	from cat	alogue) - 6LP										

Thesis Compulsory

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.