Course of Study Data Science (Study Cohort w21)

mple course plan B Bachelor Dat ecialisation Mechanics Discrete Algebraic Structures Discrete Algebraic Structures	a Scien	ce (DSBS)					Core Qualification Elective Com	pulsory Specialisation Elective Compulsory	Focus Elective	Compulsory Ir	nterdisciplinary compl	lement
Discrete Algebraic Structures Discrete Algebraic Structures												
Discrete Algebraic Structures												
Discrete Algebraic Structures												
		Automata Theory and Formal Languages		Databases		Signals and Systems		Introduction to Information Security		Seminars Computer Se		
Discrete Algebraic Structures	VL 2	Automata Theory and Formal Languages	VL 2		/L 3	Signals and Systems	VL 3	Introduction to Information Security	VL 2	Introductory Seminar Co		SE 2
Discrete Algebraic Structures	GÜ 2	Automata Theory and Formal Languages	GÜ 2	Databases Gi	Ū 1	Signals and Systems	GÜ 2	Introduction to Information Security	GÜ 2	Introductory Seminar Co	mputer Science I	SE 2
Procedural Programming for Computer Engin		Stochastics		Numerical Mathematics I		Foundations of Management		Data Mining		Ethics in Information		
Procedural Programming for Computer Engineers		Stochastics	VL 2		/L 2	Introduction to Management	VL 3	Data Mining	VL 2	Ethics in Information Tec		VL 2
Procedular Programming for Computer Engineers Procedural Programming for Computer Engineers		Stochastics	GÜ 2	Numerical Mathematics I Gi	iŪ 2	Management Tutorial	GÜ 2	Data Mining	PBL 2	Ethics in Information Tec	nnology	SE 2
Flocedural Flogramming for computer Engineers	111 2											
0												
1												
2												
3 Mathematics I (EN)		Programming Paradigms		Algorithms and Data Structures		Graph Theory and Optimizati	on	Machine Learning II		Enhanced Fundament	als of Materials Scie	ence
4 Analysis I	VL 2	Programming Paradigms	VL 2		/L 4	Graph Theory and Optimization	VL 2	Machine Learning II	VL 2	Materials for Energy Stor	rage and Conversion	VL 2
Analysis I	HÜ 1	Programming Paradigms	HÜ 1	Algorithms and Data Structures Gi	Ū 1	Graph Theory and Optimization	GÜ 2	Machine Learning II	GÜ 3	Enhanced Fundamentals	: Ceramics and	VL 2
5 Analysis I	GÜ 1	Programming Paradigms	PR 2							Polymers		
6 Linear Algebra I	VL 2									Enhanced Fundamentals	: Ceramics and	HÜ 1
Zinear Algebra I	HÜ 1									Polymers		
Linear Algebra I 8	GÜ 1											
9		Mathematics II (EN)		Statistics		Scientific Programming		Introduction to Communications and Rano Processes	lom	Bachelor Thesis		
0		Analysis II Analysis II	VL 2 HÜ 1		/L 3 ;0 1	Scientific Programming Scientific Programming	VL 3 GÜ 2	Introduction to Communications and Random	VL 3			
1 Mechanics I (Statics)		Analysis II Analysis II	GÜ 1	Statistics G	0 1	Scientific Programming	GU 2	Processes	VL J			
2 Mechanics I	VL 2	Linear Algebra II	VL 2					Introduction to Communications and Random	HÜ 1			
Mechanics I	GÜ 2	Linear Algebra II	HÜ 1					Processes				
3 Mechanics I	HŪ 1	Linear Algebra II	GÜ 1					Introduction to Communications and Random	GÜ 1			
4								Processes				
5				Mathematics III (EN)		Machine Learning I						
6					/L 2	Machine Learning I	VL 2					
					IÜ 1	Machine Learning I	GÜ 2					
7		Mechanics II: Mechanics of Materials Mechanics II			Ū 1							
8		Mechanics II Mechanics II	VL 2 GÜ 2		/L 2							
9		Mechanics II	HÜ 2		IŬ 1							
0				Differential Equations 1 Gi	Ū 1							
1												
2												
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Thesis Compulsory

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