## Course of Study Data Science (Study Cohort w21)

	a course plan A. Dachelar Dat	- Color					C	ore Qualification Elective Co	mpulsory Specialisation Elective Compulsory	Focus Elective	Compulsory	sciplinary comple	ement
	e course plan A Bachelor Dat Ilisation Mechanics	a Scien	ce (DSBS)					ore qualification Elective Col	inpulsory specialisation elective compulsory	TOCUS Elective		scipilitary comple	ement
ECIU	Discrete Algebraic Structures		Automata Theory and Formal Languages		Databases		Signals and Systems		Introduction to Information Security		Seminars Computer Science		
	Discrete Algebraic Structures Discrete Algebraic Structures	VL 2	Automata Theory and Formal Languages Automata Theory and Formal Languages	VL 2	Databases	VL 3	Signals and Systems	VL 3	Introduction to Information Security	VL 2	Introductory Seminar Computer		SE
	Discrete Algebraic Structures	GÜ 2	Automata Theory and Formal Languages	GÜ 2	Databases	GŪ 1	Signals and Systems	GÜ 2	Introduction to Information Security	GÜ 2	Introductory Seminar Compute		SE
	Procedural Programming for Computer Engi	neers	Stochastics		Numerical Mathematics I		Foundations of Management		Data Mining		Ethics in Information Techn	nology	
	Procedural Programming for Computer Engineers	VL 1	Stochastics	VL 2	Numerical Mathematics I	VL 2	Introduction to Management	VL 3	Data Mining	VL 2	Ethics in Information Technolog	gy	VL
	Procedular Programming for Computer Engineers		Stochastics	GÜ 2	Numerical Mathematics I	GŪ 2	Management Tutorial	GÜ 2	Data Mining	PBL 2	Ethics in Information Technolog	gy	SE
.0	Procedural Programming for Computer Engineers	PR 2											
.1	-												
2													
3	Mathematics I (EN)		Programming Paradigms		Algorithms and Data Structures		Graph Theory and Optimizatio		Machine Learning II		Bachelor Thesis		
4	Analysis I Analysis I	VL 2 HŪ 1	Programming Paradigms Programming Paradigms	VL 2 HÜ 1	Algorithms and Data Structures Algorithms and Data Structures	VL 4 GÜ 1	Graph Theory and Optimization Graph Theory and Optimization	VL 2 GÜ 2	Machine Learning II Machine Learning II	VL 2 GÜ 3			
5	Analysis I	GÜ 1	Programming Paradigms	PR 2	Agonaniis and bata structures	00 1	Graph meory and optimization	00 2	Machine Learning II	00 5			
6	Linear Algebra I	VL 2											
.7	Linear Algebra I	HŪ 1											
.8	Linear Algebra I	GÜ 1											
.9	-		Mathematics II (EN)		Statistics		Scientific Programming						
	-		Analysis II	VL 2	Statistics	VL 3	Scientific Programming	VL 3	Functional Programming Functional Programming	VL 2			
0			Analysis II	HÜ 1	Statistics	GÜ 1	Scientific Programming	GÜ 2	Functional Programming	HÜ 2			
1	Mechanics I (Statics)		Analysis II	GÜ 1					Functional Programming	GÜ 2			
2	Mechanics I Mechanics I	VL 2 GÜ 2	Linear Algebra II	VL 2									
3	Mechanics I	GU 2 HŪ 1	Linear Algebra II Linear Algebra II	HÜ 1 GÜ 1									
4				GU 1									
5					Mathematics III (EN)		Machine Learning I		Engineering Mechanics III (Dynamics)				
6	-				Analysis III	VL 2	Machine Learning I	VL 2	Engineering Mechanics III	VL 3			
					Analysis III	HÜ 1	Machine Learning I	GÜ 2	Engineering Mechanics III	GÜ 2			
7	-		Mechanics II: Mechanics of Materials Mechanics II	VL 2	Analysis III	GÜ 1			Engineering Mechanics III	HÜ 1			
8			Mechanics II	GÜ 2	Differential Equations 1 Differential Equations 1	VL 2 HÜ 1							
9			Mechanics II	HÜ 2	Differential Equations 1	GÜ 1							
0													
1	1												
2	1												
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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.