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

eciali	sation Electrical Engineering											
		VL 2 GÜ 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 GÜ 1	Signals and Systems Signals and Systems Signals and Systems	VL 3 GÜ 2	Introduction to Information Security Introduction to Information Security Introduction to Information Security	VL 2 GÜ 2	Seminars Computer Science Introductory Seminar Computer Science II Introductory Seminar Computer Science I	SE : SE :
	Procedural Programming for Computer Engin		Stochastics		Numerical Mathematics I		Foundations of Management		Data Mining		Ethics in Information Technology	
	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
_	Procedular Programming for Computer Engineers	HŪ 1	Stochastics	GÜ 2	Numerical Mathematics I	GŪ 2	Management Tutorial	GÜ 2	Data Mining	PBL 2	Ethics in Information Technology	SE
)	Procedural Programming for Computer Engineers	PR 2										
2												
	Mathematics I (EN)		Programming Paradigms		Algorithms and Data Structures		Graph Theory and Optimization		Machine Learning II		Semiconductor Circuit Design	
_	Analysis I	VL 2	Programming Paradigms	VL 2	Algorithms and Data Structures	VL 4	Graph Theory and Optimization	VL 2	Machine Learning II	VL 2	Semiconductor Circuit Design	VL
-		HŪ 1	Programming Paradigms	HÜ 1	Algorithms and Data Structures	GŨ 1	Graph Theory and Optimization	GÜ 2	Machine Learning II	GÜ 3	Semiconductor Circuit Design	GŪ
_		GÜ 1 VL 2	Programming Paradigms	PR 2								
5		HŪ 1										
'	Linear Algebra I	GÜ 1										
			Mathematics II (EN) Analysis II	VL 2	Statistics Statistics	VL 3	Scientific Programming Scientific Programming	VL 3	Computer Engineering Computer Engineering	VL 3	Bachelor Thesis	
			Analysis II	HÜ 1	Statistics	GÜ 1	Scientific Programming	GÜ 2	Computer Engineering	GÜ 1		
	Electrical Engineering I: Direct Current Netwo	orks and	Analysis II	GÜ 1								
	Electromagnetic Fields Electrical Engineering I: Direct Current Networks	VI 3	Linear Algebra II	VL 2								
	and Electromagnetic Fields		Linear Algebra II Linear Algebra II	HÜ 1 GÜ 1								
	Electrical Engineering I: Direct Current Networks	GÜ 2		00 1								
;	and Electromagnetic Fields				Mathematics III (EN)		Machine Learning I					
-					Analysis III	VL 2	Machine Learning I	VL 2				
_					Analysis III	HÜ 1	Machine Learning I	GÜ 2				
_			Electrical Engineering II: Alternating Curren and Basic Devices	t Networks	Analysis III	GŨ 1						
			Electrical Engineering II: Alternating Current	VL 3	Differential Equations 1 Differential Equations 1	VL 2 HÜ 1						
			Networks and Basic Devices		Differential Equations 1	GŪ 1						
			Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2								
_			Networks and Basic Devices									

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