Course of Study Data Science (Study Cohort w21)

mple course plan C Bachelor Data Science (DSBS)							Core Qualification Elective Compulsory Specialisation Elective Compulsory Fo			Focus Elective Compulsory Interdisciplinary complement	
lisation Mechanics											
Discrete Algebraic Structures Discrete Algebraic Structures Discrete Algebraic Structures	VL 2 GÜ 2	Automata Theory and Formal Languages Automata Theory and Formal Languages Automata Theory and Formal Languages	VL 2 GÜ 2			Signals and Systems Signals and Systems Signals and Systems	VL 3 GÛ 2	Introduction to Information Security Introduction to Information Security Introduction to Information Security	VL 2 GÛ 2	Seminars Computer Science Introductory Seminar Computer Science II Introductory Seminar Computer Science I	SE 2 SE 2
Procedural Programming for Computer Engineers Procedular Programming for Computer Engineers	VL 1 HÜ 1	Stochastics Stochastics Stochastics	VL 2 GÜ 2			Foundations of Management Introduction to Management Management Tutorial	VL 3 GÜ 2	<b>Data Mining</b> Data Mining Data Mining	VL 2 PBL 2	Ethics in Information Technology Ethics in Information Technology Ethics in Information Technology	VL 2 SE 2
Mathematics I (EN) Analysis I Analysis I Analysis I Linear Algebra I Linear Algebra I Linear Algebra I	VL 2 HÜ 1 GÜ 1 VL 2 HÜ 1 GÜ 1 GÜ 1	Programming Paradigms Programming Paradigms Programming Paradigms Programming Paradigms	VL 2 HÜ 1 PR 2			Graph Theory and Optimization Graph Theory and Optimization Graph Theory and Optimization	VL 2 GÜ 2	Machine Learning II Machine Learning II Machine Learning II	VL 2 GÜ 3	Introduction into Medical Technology and Introduction into Medical Technology and Systems Introduction into Medical Technology and Systems Introduction into Medical Technology and Systems	VL 2 PS 2 HÜ 1
Mechanics I (Statics)  Mechanics I  Mechanics I  Mechanics I	VL 2 GÜ 2 HÜ 1	Mathematics II (EN) Analysis II Analysis II Analysis II Linear Algebra II Linear Algebra II	VL 2 HÛ 1 GÛ 1 VL 2 HÛ 1 GÛ 1			Scientific Programming Scientific Programming Scientific Programming	VL 3 GÜ 2	Image Processing Image Processing Image Processing	VL 2 GÜ 2	Bachelor Thesis	
		Mechanics II: Mechanics of Materials Mechanics II Mechanics II Mechanics II	VL 2 GÜ 2 HÜ 2	Analysis III         H           Analysis III         GI           Differential Equations 1         V           Differential Equations 1         H	1Ü 1 5Ü 1 /L 2 1Ü 1	Machine Learning I Machine Learning I Machine Learning I	VL 2 GÜ 2				
	Discrete Algebraic Structures  Procedural Programming for Computer Engineers	Discrete Algebraic Structures Discrete Algebraic Structures Discrete Algebraic Structures VL 2 Discrete Algebraic Structures Oiscrete Algebraic Structures VL 2 Discrete Algebraic Structures Oiscrete Algebraic VL 1 Procedural Programming for Computer Engineers Oiscrete Algebraic VL 2 Analysis I VL 2 Analysis I VL 2 Analysis I HÜ 1 Linear Algebra I VL 2 Linear Algebra I HÜ 1 Linear Algebra I HÜ 1 Linear Algebra I GÜ 1 Coiscrete Algebra I HÜ 1 Coiscrete Algebr	Discrete Algebraic Structures Discrete Algebraic Structures Discrete Algebraic Structures Discrete Algebraic Structures VL 2 Procedural Programming for Computer Engineers PR 2  Mathematics I (EN) Analysis I Analysis I Analysis I Analysis I Co 1 Linear Algebra I Linear Algebra I Linear Algebra I Co 2 Mechanics I (Statics) Mechanics I (Statics) Mechanics I Mechanics I Mechanics I Mechanics I Mechanics I Mechanics I Mechanics II	Discrete Algebraic Structures Discrete Algebraic Structures Discrete Algebraic Structures Discrete Algebraic Structures VL 2 Discrete Algebraic Structures VL 2 Discrete Algebraic Structures VL 2 Automata Theory and Formal Languages VL 2 Stochastics Procedural Programming for Computer Engineers Procedural Programming for Computer Engineers VL 2 Procedural Programming for Computer Engineers PR 2  Stochastics VL 2 Stochastics VL 2 Analysis I VL 2 Programming Paradigms Programming Paradigms VL 2 Linear Algebra I VL 2 Mechanics I (Statics) Mechanics I (Statics) Mechanics I Mechanics II Mechani	Discrete Algebraic Structures Discrete Algebraic Structures Discrete Algebraic Structures VI 2 Discrete Algebraic Structures Oiscrete Algebraic Structures O	Discrete Algebraic Structures	Section Mechanics   Section   Sect	Section Mechanics	Sation Mechanics	Section Mechanics	Section Mechanics

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