

Course of Study Data Science (Study Cohort w21)

Sample course plan E Bachelor Data Science (DSBS)

Specialisation Logistics														
1	Discrete Algebraic Structures Discrete Algebraic Structures VL 2 Discrete Algebraic Structures GÜ 2		Automata Theory and Formal Languages Automata Theory and Formal Languages VL 2 Automata Theory and Formal Languages GÜ 2		Databases Databases VL 3 Databases GÜ 1		Signals and Systems Signals and Systems VL 3 Signals and Systems GÜ 2		Introduction to Information Security Introduction to Information Security VL 2 Introduction to Information Security GÜ 2		Seminars Computer Science Introductory Seminar Computer Science II SE 2 Introductory Seminar Computer Science I SE 2			
2														
3														
4														
5														
6														
7	Procedural Programming for Computer Engineers Procedural Programming for Computer Engineers VL 1 Procedural Programming for Computer Engineers HÜ 1 Procedural Programming for Computer Engineers PR 2		Stochastics Stochastics VL 2 Stochastics GÜ 2		Numerical Mathematics I Numerical Mathematics I VL 2 Numerical Mathematics I GÜ 2		Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2		Data Mining Data Mining VL 2 Data Mining PBL 2		Ethics in Information Technology Ethics in Information Technology VL 2 Ethics in Information Technology SE 2			
8														
9														
10														
11														
12														
13	Mathematics I (EN) Analysis I VL 2 Analysis I HÜ 1 Analysis I GÜ 1 Linear Algebra I VL 2 Linear Algebra I HÜ 1 Linear Algebra I GÜ 1		Programming Paradigms Programming Paradigms VL 2 Programming Paradigms HÜ 1 Programming Paradigms PR 2		Algorithms and Data Structures Algorithms and Data Structures VL 4 Algorithms and Data Structures GÜ 1		Graph Theory and Optimization Graph Theory and Optimization VL 2 Graph Theory and Optimization GÜ 2		Machine Learning II Machine Learning II VL 2 Machine Learning II GÜ 3		Semiconductor Circuit Design Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GÜ 1			
14														
15														
16														
17														
18														
19			Traffic systems and handling technology Transport- and Handling-Technology VL 2 Transport- and Handling-Technology GÜ 2		Mathematics II (EN) Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1 Linear Algebra II VL 2 Linear Algebra II HÜ 1 Linear Algebra II GÜ 1		Statistics Statistics VL 3 Statistics GÜ 1		Scientific Programming Scientific Programming VL 3 Scientific Programming GÜ 2		Computer Engineering Computer Engineering VL 3 Computer Engineering GÜ 1		Bachelor Thesis	
20														
21														
22														
23														
24														
25	Mathematics III (EN) Analysis III VL 2 Analysis III HÜ 1 Analysis III GÜ 1				Machine Learning I Machine Learning I VL 2 Machine Learning I GÜ 2									
26														
27														
28														
29			Logistics Management Logistics Economics PBL 3 Introduction into Production Logistics VL 2		Analysis III GÜ 1 Differential Equations 1 VL 2 Differential Equations 1 HÜ 1 Differential Equations 1 GÜ 1									
30														
31														
32														
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.

