

Course of Study Data Science (Study Cohort w21)

Sample course plan A Bachelor Data Science (DSBS) Dual study program

Specialisation: Medicine		Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5	Form Hrs/wk	Semester 6	Form Hrs/wk
1	Discrete Algebraic Structures	VL 2	Automata Theory and Formal Languages	VL 2	Databases	VL 3	Signals and Systems	VL 3	Introduction to Information Security	VL 2	Seminars Computer Science	SE 2
2		GÜ 2		GÜ 2		GÜ 1		GÜ 2		GÜ 2		SE 2
3												
4												
5												
6												
7	Procedural Programming for Computer Engineers	VL 1	Stochastics	VL 2	Numerical Mathematics I	VL 2	Foundations of Management	VL 3	Data Mining	VL 2	Ethics in Information Technology	VL 2
8		HÜ 1		GÜ 2		GÜ 2		GÜ 2		PBL 2		SE 2
9		PR 2										
10												
11												
12												
13	Mathematics I (EN)	VL 2	Programming Paradigms	VL 2	Algorithms and Data Structures	VL 4	Graph Theory and Optimization	VL 2	Machine Learning II	VL 2		
14		HÜ 1		HÜ 1		GÜ 1		GÜ 2		GÜ 2		
15		GÜ 1		PR 2								
16		VL 2										
17		HÜ 1										
18		GÜ 1										
19	MED II: Introduction to Biochemistry and Molecular Biology		Mathematics II (EN)	VL 2	Statistics	VL 3	Scientific Programming	VL 3	Functional Programming	VL 2		
20				HÜ 1		GÜ 1		GÜ 2		HÜ 2		
21				GÜ 1						GÜ 2		
22				VL 2								
23	Introduction to Biochemistry and Molecular Biology	VL 2		HÜ 1						GÜ 2		
24				GÜ 1								
25					Mathematics III (EN)	VL 2	Machine Learning I	VL 2	Engineering Mechanics III (Dynamics)	VL 3		
26						HÜ 1		GÜ 2		GÜ 2		
27						GÜ 1				HÜ 1		
28						VL 2						
29					HÜ 1							
30					GÜ 1							
31												
32												
33												
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.

