

Course of Study Data Science (Study Cohort w21)

Sample course plan E Bachelor Data Science (DSBS)

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 Discrete Algebraic Structures Discrete Algebraic Structures	VL 2	Automata Theory and Formal Languages Automata Theory and Formal Languages Automata Theory and Formal Languages	VL 2	Databases Databases Databases	VL 3	Signals and Systems Signals and Systems Signals and Systems	VL 3	Introduction to Information Security Introduction to Information Security Introduction to Information Security	VL 2	Seminars Computer Science Introductory Seminar Computer Science II Introductory Seminar Computer Science I	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 Procedural Programming for Computer Engineers Procedural Programming for Computer Engineers Procedural Programming for Computer Engineers	VL 1	Stochastics Stochastics Stochastics	VL 2	Numerical Mathematics I Numerical Mathematics I Numerical Mathematics I	VL 2	Foundations of Management Introduction to Management Management Tutorial	VL 3	Data Mining Data Mining Data Mining	VL 2	Ethics in Information Technology Ethics in Information Technology 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) Analysis I Analysis I Analysis I Linear Algebra I Linear Algebra I Linear Algebra I	VL 2	Programming Paradigms Programming Paradigms Programming Paradigms Programming Paradigms	VL 2	Algorithms and Data Structures Algorithms and Data Structures Algorithms and Data Structures	VL 4	Graph Theory and Optimization Graph Theory and Optimization Graph Theory and Optimization	VL 2	Machine Learning II Machine Learning II Machine Learning II	VL 2	Semiconductor Circuit Design Semiconductor Circuit Design Semiconductor Circuit Design	VL 3
14		HÜ 1		HÜ 1		GÜ 1		GÜ 2		GÜ 2		GÜ 1
15		GÜ 1		PR 2								
16		VL 2										
17		HÜ 1										
18		GÜ 1										
19	MED II: Introduction to Biochemistry and Molecular Biology Introduction to Biochemistry and Molecular Biology	VL 2	Mathematics II (EN) Analysis II Analysis II Analysis II Linear Algebra II Linear Algebra II Linear Algebra II	VL 2	Statistics Statistics Statistics	VL 3	Scientific Programming Scientific Programming Scientific Programming	VL 3	Computer Engineering Computer Engineering Computer Engineering	VL 3	Bachelor Thesis	
20		HÜ 1		HÜ 1		GÜ 1		GÜ 2		GÜ 1		
21		GÜ 1		GÜ 1								
22		VL 2		VL 2								
23		HÜ 1		HÜ 1								
24		GÜ 1		GÜ 1								
25			MED I: Introduction to Anatomy Introduction to Anatomy	VL 2	Mathematics III (EN) Analysis III Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	VL 2	Machine Learning I Machine Learning I Machine Learning I	VL 2				
26				HÜ 1		HÜ 1		GÜ 2				
27				GÜ 1		GÜ 1						
28				VL 2		VL 2						
29				HÜ 1		HÜ 1						
30				GÜ 1		GÜ 1						
31	MED I: Introduction to Radiology and Radiation Therapy Introduction to Radiology and Radiation Therapy	VL 2					MED II: Introduction to Physiology Introduction to Physiology	VL 2				
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.

