

Course of Study Data Science (Study Cohort w21)

Sample course plan B Bachelor Data Science (DSBS)

Specialisation Medicine														
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														
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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			
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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		Enhanced Fundamentals of Materials Science Materials for Energy Storage and Conversion VL 2 Enhanced Fundamentals: Ceramics and Polymers VL 2 Enhanced Fundamentals: Ceramics and Polymers HÜ 1			
14														
15														
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19			MED II: Introduction to Biochemistry and Molecular Biology Introduction to Biochemistry and Molecular Biology VL 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		Introduction to Communications and Random Processes Introduction to Communications and Random Processes VL 3 Introduction to Communications and Random Processes HÜ 1 Introduction to Communications and Random Processes GÜ 1		Bachelor Thesis	
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21														
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24														
25			Mathematics III (EN) Analysis III VL 2 Analysis III HÜ 1 Analysis III GÜ 1 Differential Equations 1 VL 2 Differential Equations 1 HÜ 1 Differential Equations 1 GÜ 1		Machine Learning I Machine Learning I VL 2 Machine Learning I GÜ 2									
26														
27														
28														
29			MED I: Introduction to Anatomy Introduction to Anatomy VL 2											
30														
31														
32	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									
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.

