

Data Science Curriculum (part-time)

Valid from Autumn Semester 2021/2022 / 12.02.2021

Semester	Context Modules	Project Modules	Subject-Specific Modules				Mathematics and Natural Science Modules		
Semester 8		Bachelor Thesis: Data Science DE 12	Elective Module 4	Elective Module 4	Elective Module 4				
Semester 7	Elective Module Context 2	Project Thesis: Data Science DE 6	Elective Module 4	Elective Module 4	Elective Module 4	Elective Module Cross-Curricular 4			
Semester 6	Elective Module Context 2	Big Data Project DE 4	Front End, Web and Software Engineering DE 4		Machine Learning und Data Mining DE 4	Statistical Modelling DE 4	Elective Module 4		
Semester 5	Elective Module Context 2	Text Processing DE 4	Operating Systems and Infrastructure DE 4	Algorithms and Data Structures DE 4		Basics of statistics DE 4	Elective Module 4		
Semester 4	Digitisation of Economic Systems DE 2	Data Processing with R DE 4		Data Engineering 2 DE 4	Digital Entrepreneurship DE 4	Probability Calculations DE 4		Numerics DE 4	
Semester 3	Communication Competence 3 DE/EN 2	Software Projects DE 4			Data Products and Services DE 4	Explorative Data Analysis DE 4		Analysis 3 DE 4	Electronics and Digital Technology: Basic Principles DE 4
Semester 2	Communication Competence 2 DE/EN 2		Computer Science Programming 2 DE 4	Data Engineering 1 DE 4	Visualisation and Data Science Storytelling DE 4		Linear Algebra 2 DE 4	Analysis 2 DE 4	
Semester 1	Communication Competence 1 DE/EN 2		Computer Science Programming 1 DE 4	Databases DE 4	Data Science Fundamentals DE 4		Linear Algebra 1 DE 4	Analysis 1 DE 4	

Module Name
Language of Instruction
Credits