

Data Science Curriculum (full-time)

Valid from Autumn Semester 2021/2022 / 12.02.2021

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

Module Name

Language of Instruction

Credits