

Mobility Science Curriculum (full-time)

Valid from Autumn Semester 2025/2026 / 21.02.2025

Semester 6	Elective Module Context 2		Bachelor Thesis: Transportation Systems DE/EN 12	Elective Module 2 4	Elective Module 4 4	Elective Module 6 4	Elective Module 8 4												
Semester 5	Elective Module Context 2	Elective Module Context 2	Project Thesis: Transportation Systems DE/EN 6	Elective Module 1 4	Elective Module 3 4	Elective Module 5 4	Elective Module 7 4	Elective Module Cross-Curricular 4											
Semester 4	Elective Module Communication 2		Transportation Practice Project 2 DE 4	Transportation Law DE 4	Maintenance DE 4	Facility and Fleet Management DE 4	Reliability, Availability, Maintainability and Safety DE 4	Data Analysis and Forecasting DE 4										Numerics DE 4	
Semester 3	Elective Module Communication 2		Transportation Practice Project 1 DE 4	Transportation Economics 2 DE 4	Intermodality and Multimodality DE 4	Operations Management Fundamentals DE 4	Operations Research DE 4										Stochastics and Statistics DE 4	Physics 3 DE 4	
Semester 2	Communication Compet. Basic 2		Transportation Project 2 DE 4	Transportation Economics 1 DE 4	Transportation Systems - Operations DE 4	Computer Science Programming 2 DE 4											Analysis 2 DE 4	Linear Algebra 2 DE 4	Physics 2 DE 4
Semester 1	Digitisation of Economic Systems DE 2		Transportation Project 1 DE 4	Spatial Planning DE 4	Transportation Systems - Basics DE 4	Computer Science Programming 1 DE 4											Analysis 1 DE 4	Linear Algebra 1 DE 4	Physics 1 DE 4
	Context Modules		Project Modules	Subject-Specific Modules								Mathematics and Natural Science Modules							

Module Name

Language of Instruction

Credits

Overview of Mobility Science elective modules

During your third year of study, you will choose eight of the following elective modules*. This will allow you to create an individual profile in the following subject areas:

Modelling and Simulation of Transportation Systems

- Mobility Data
- Logistics
- Traffic Engineering

Semester 6	Logistik and Supply Chain Management 2 DE	Modeling and Simulation 2 DE	Transport Engineering 2 DE	Mobility Data Analytics DE	Control Technology & Customer Information DE	
Semester 5	Logistik and Supply Chain Management 1 DE	Modeling and Simulation 1 DE	Transport Engineering 1 DE	Mobility Data Mining DE	Network Development DE	Surveys and Samples DE

* For modules that build on each other, part 1 must be completed in order to participate in part 2. It is, however, possible to also only select part 1.