

Aviation Curriculum (full-time)

Valid from Autumn Semester 2025/2026 / 21.02.2025

Semester 6	Elective Module Context 2		Bachelor Thesis: Aviation DE/EN 12	Specialisation Module 2 4	Specialisation Module 4 4	Specialisation Module 6 4	Elective Module 8 4													
Semester 5	Elective Module Context 2	Elective Module Context 2	Project Thesis: Aviation DE/EN 6	Specialisation Module 1 4	Specialisation Module 3 4	Specialisation Module 5 4	Elective Module 7 4	Elective Module Cross-Curricular 4												
Semester 4	Elective Module Communication 2		Aviation Projects 4 DE 4	Aircraft Systems-Propulsion Systems and Performance EN 4	Aircraft Systems-Electrotechnics and Electrical Systems EN 4	Aviation Systems Engineering EN 4	Infrastructure - Aerodromes DE 4	Materials Technology for Aviation DE 4										Numerics DE 4		
Semester 3	Elective Module Communication 2		Aviation Projects 3 DE 4	Aircraft Systems-Structure and Mechanical Systems EN 4	Human Factors EN 4	Safety Risk Management – Quality Management DE 4	Infrastructure - Airspace and Air Navigation Services DE 4											Stochastics and Statistics DE 4	Physics 3: Atmospheric Physics and Applied Meteorology EN 4	
Semester 2	Communication Compet. Basic DE 2		Aviation Projects 2 DE 4	Principles of Flight EN 4	Business Administration EN 4	Computer Science Tools DE 2	CAD for Aviation DE 2											Analysis 2 DE 4	Linear Algebra 2 DE 4	Physics 2 DE 4
Semester 1	Intercultural Communication and Management EN 2		Aviation Projects 1 DE 4	Aviation Basics DE 4	Aviation Law 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

Aviation focus areas

During your third year of study, you will choose one of the following three specialisations:

Technical Engineering			
Semester 6	Aircraft Systems– Flight Propulsion EN	Aircraft Systems– Structural Testing and Repairs DE	Flight Mechanics and Simulation EN
Semester 5	Aircraft Systems– Control Systems EN	Advanced Mechanics EN	Systems Reliability, Availability, Maintainability and Safety EN

Operational Engineering			
Semester 6	Aviation Management EN	Traffic Systems Operations DE	Infrastructure - Integration DE
Semester 5	Flight Operations EN	Human Factors in Engineering DE	Systems Reliability, Availability, Maintainability and Safety EN

Airline Transport Pilot <small>(successful completion of the aptitude test as a commercial pilot required)</small>			
Semester 5	Airline Transport Pilot Preparation 3 DE	Airline Transport Pilot Preparation 4 DE	Airline Transport Pilot Preparation 5 DE
Semester 6	Flight Operations EN	Airline Transport Pilot Preparation 1 DE	Airline Transport Pilot Preparation 2 DE