

# Aviation Curriculum (full-time)

Valid from Autumn Semester 2020/2021 / 02.06.2022

Semester	Context Modules	Project Modules	Subject-Specific Modules	Mathematics and Natural Science Modules					
Semester 6	Wahlpflichtmodul Kontext 2	Bachelor Thesis: Aviation DE/EN 12	Schwerpunktmodul 2 4 Schwerpunktmodul 4 4 Schwerpunktmodul 6 4	Wahlpflichtmodul Fach 8 4					
Semester 5	Wahlpflichtmodul Kontext 2	Wahlpflichtmodul Kontext 2	Project Thesis: Aviation DE/EN 6	Schwerpunktmodul 1 4 Schwerpunktmodul 3 4 Schwerpunktmodul 5 4	Wahlpflichtmodul Fach 7 4 Wahlpflichtmodul SG-übergreifend 4				
Semester 4	Intercultural Communication and Management EN 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	Numerik DE 4	
Semester 3	Communication Competence 3 DE/EN 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	Stochastik und Statistik DE 4	Physics 3: Atmospheric Physics and Applied Meteorology EN 4	
Semester 2	Communication Competence 2 DE/EN 2	Aviation Projects 2 DE 4	Principles of Flight EN 4	Business Administration EN 4	Informatik Tools DE 2	CAD for Aviation DE 2	Analysis 2 DE 4	Lineare Algebra 2 DE 4	Physik 2 DE 4
Semester 1	Communication Competence 1 DE/EN 2	Aviation Projects 1 DE 4	Aviation Basics DE 4	Aviation Law DE 4	Informatik Programmieren 1 DE 4	Analysis 1 DE 4	Lineare Algebra 1 DE 4	Physik 1 DE 4	

Module Name

Language of Instruction

Credits

## Schwerpunkte Aviatik

Im dritten Studienjahr wählen Sie einen aus den folgenden drei Schwerpunkten aus:

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

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

Airline Transport Pilot <small>(bestandene Eignungsprüfung als Verkehrspilot/in voraus- gesetzt)</small>			
6. Semester	Airline Transport Pilot Preparation 3 DE	Airline Transport Pilot Preparation 4 DE	Airline Transport Pilot Preparation 5 DE
5. Semester	Flight Operations EN	Airline Transport Pilot Preparation 1 DE	Airline Transport Pilot Preparation 2 DE