## Curriculum Aviatik (Vollzeit)

Valid from Autumn Semester 2020/2021 / 02.06.2022

### Curricula Aviatik (Vollzeit)

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### Language of Instruction

- DE/EN
- DE
- EN

### Credits

- Semester 1: 4 Credits
- Semester 2: 4 Credits
- Semester 3: 4 Credits
- Semester 4: 4 Credits
- Semester 5: 4 Credits
- Semester 6: 4 Credits

### Module Name

- Communication Competence 1
- Communication Competence 2
- Communication Competence 3
- Elective Module Context
- Bachelor Thesis: Aviation
- Project Thesis: Aviation
- Intercultural Communication and Management
- Aviation Projects 1
- Aviation Projects 2
- Aviation Projects 3
- Aviation Projects 4
- Aircraft Systems - Propulsion Systems and Performance
- Aircraft Systems - Structure and Mechanical Systems
- Human Factors
- Safety Risk Management - Quality Management
- Infrastructure - Airspace and Air Navigation Services
- Materials Technology for Aviation
- Elective Module 1
- Elective Module 2
- Elective Module 3
- Elective Module 4
- Elective Module 5
- Elective Module 6
- Elective Module 7
- Elective Module 8

### Mathematics and Natural Science Modules

- Analysis 1
- Linear Algebra 1
- Physics 1
- Analysis 2
- Linear Algebra 2
- Physics 2
- Numerics
- Stochastics and Statistics
- Physics 3: Atmospheric Physics and Applied Meteorology
- Physics 2
Aviation focus areas

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

### Technical Engineering
- **Semester 5**: Aircraft Systems–Flight Propulsion (EN), Aircraft Systems–Structural Testing and Repairs (EN), Flight Mechanics and Simulation (EN)
- **Semester 6**: Aircraft Systems–Control Systems (EN), Advanced Mechanics (EN), Systems Reliability, Availability, Maintainability and Safety (EN)

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

### Airline Transport Pilot
- **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)

(Successful completion of the aptitude test as a commercial pilot required)