Aerospace Engineering
Master of Science

FH AACHEN
UNIVERSITY OF APPLIED SCIENCES

Carrying out Ideas

Have you got some ideas in your drawer? Then come and see us at the FH Aachen Startup Center! We will support you in carrying out and implementing your ideas.

gruenden.fh-aachen.de

GRÜNDUNGSZENTRUM

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Contents

All information about the degree programme can also be found on the internet. To this end, use a suitable reader to take a photo of the QR code.
fhac.de/master-aerospace-engineering

Introducing the Degree Programme

This academic degree programme, offered entirely in English, is the foundation for careers in the Aviation, Space or Mechanical Engineering industries or a doctorate.
The duration of the Master of Science programme is 3 semesters. The Master of Science/Master of Engineering dual degree with RMIT Melbourne is a 4 semester programme. Both will support you in becoming a professional in Aerospace Engineering and Mechanical Engineering contexts.

Our course programme allows you to select courses freely from the “Synergetic Modules Catalogue” and “General Competencies Catalogue”. To allow for conflict-free schedules, four focus areas with pre-defined module sets were defined incorporating our students‘ preferences. These are: Airframe Design and Production, Flight Physics and Flight Guidance, Sustainable Aircraft Propulsion Engineering, Space Exploration Engineering or General Aerospace Engineering

In addition to classroom or online courses, you will enjoy access to more than 35 laboratories and a faculty aircraft at FH Aachen in your studies.

Teaching staff look forward to assisting you with their years of experience in industry and at major research institutions.

Careers and Fields of Activity

Economic and ecological challenges provide excellent opportunities for our graduates, and they are highly sought after by

- Aerospace manufacturers
- Component and subsystem suppliers
- Aerospace research establishments
- Airlines and airports
- Automotive and transport manufacturers
- High technology sections of mechanical engineering
- Engineering and mobility solution providers
- Space exploration industry
- Communications industry and environment monitoring service providers

Graduates find their roles across a wide field including

- Application oriented research and development
- Systems engineering and design
- Construction (e.g. CAD) and various fields in simulation technology
- Production planning and Optimisation
- Experimental proofs and flight testing
- Assurance of product safety and quality control
- Management of complex facilities
- Technical customer contact
- Technical management
- Join our successful and internationally renowned programme to secure a long-term and fulfilling career following your interests.

Industry Contacts – Your Benefit

The faculty features extensive contacts and project involvement in the aerospace sector, large scale research establishments (e.g. DLR) as well as with other universities in Germany and worldwide.
Courses are reviewed each year by industry experts on the “faculty advisory board”, which is one element to ensure that our students graduate with the appropriate knowledge and are prepared for a professional career.
We actively support students writing their Master´s thesis inside international industry, research institutes or at partner universities.
Block lessons or seminars are held by industry representatives. Excursions to selected companies in Germany and abroad enhance the learning and networking experience.

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Faculty of Aerospace Engineering

Top ranked

- Ranked top in application orientation and internationalisation by Center für Hochschulentwicklung (CHE ranking, 2019);
- Ranked “excellent” by Master students for support by academic staff and course content (CHE ranking, 2019);
- Most favoured university of applied sciences to recruit from in Germany (Wirtschaftswoche ranking 2018, 2019, 2021-category mechanical and Aerospace Engineering).

Element of professional success

- 89% of Master‘s graduates enter employment no later than 6 months after graduation, 81% in industry (istat evaluation, 2018)
- 90% of Master‘s graduates would choose the same degree programme again 1.5 years after graduating (istat evaluation, 2018)

Leading in infrastructure and facilities:

- Over 35 laboratories including 2 wind tunnels, combustion and thermal test stands, flight simulator, procedure trainer.
- Faculty-owned training aircraft and summer school flying practice.
- Home of the Competence Center of Mobility Aachen, CCMA, and the new powertrain testing center PSG – one of the largest education investments in Germany.
- Part-owner of Aachen-Merzbrück research airport, an 80 hectar development site for research, development and production of hybrid flight solutions.

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Alumni Statements

David Knapp

The decisive factor for my decision to study at the FH Aachen was that I wanted to combine theory and practice in an environment where personal contact with the lecturers is easy. Aerospace engineering was clear for me in both my bachelor‘s and master‘s degrees, because that was where I could best combine both: my skills and my interests - especially in the field of aerodynamics. I didn‘t know which industry I wanted to work for after graduation, but I always knew that I would be broadly positioned with aircraft engineering studies at FH Aachen. This proved to be true because I quickly found a great job that I wished in the automotive industry after graduation.
All in all, I really enjoyed studying at FH Aachen due to the good integration of theory in interesting practical courses. I can absolutely recommend to study at FH Aachen to everyone.

Falk Götten

Since I was young, my dream was always to become an aerospace engineer. Besides my strong interest in the aerospace sciences, I am also a quite practical guy who loves to work hands-on. Studying at FH Aachen gave me the perfect combination of theoretical learning and directly applying my new knowledge in many of the practical courses. This is exactly what makes studying here different from other universities. You really learn what you need to know in the industrial environment. During my studies, I specialized in aircraft design and worked in the UAV departments of Airbus and UMS SKELDAR for both Bachelor’s and Master’s theses. Directly after my Master degree, I got the opportunity to take a position as a research engineer at FH Aachen and did not hesitate a moment. I now work in the fluid dynamics department and continue my passion for unmanned systems by doing a PhD in cooperation with the Royal Melbourne Institute of Technology.

Admission Requirements

3 Semester Degree Programme
Only applicants with the following qualifications can be considered into the application procedure:

- An excellent Bachelor Degree in Aerospace Engineering or Mechanical Engineering with corresponding degree programmes, at least 210 ECTS
- Applicants whose study qualification was not achieved at a German-speaking university have to provide proof of German language skills, Language Level A2 is required for admission to the degree programme and B1 for admission to the Master´s Thesis. (Goethe Certificate)
- Applicants whose study qualification was not achieved at a university in a country that participates in the Bologna process have to send a certified copy of the "Graduate Record Examination (GRE) – General Test" –result.
- APS certificate for applicants from China, India and Vietnam.
- Proof of English language skills (TOEFL/IELTS).

4 Semester Degree Programme (Dual Degree Programme)

- Requirement of English language proficiency for RMIT enrolment
- If you have studied for at least 2 years and your qualification has been taught and assessed in English, it is assumed that you meet the English language requirement (an official letter from the institution stating that the programme is taught and assessed entirely in English must be submitted).
- "Fachhochschulreife" with at least grade 3 in English, or Abitur with at least 7 points in English, or the DAAD language test with a minimum of B in all sections (completion within 5 years of RMIT programme commencement).

Detailed information can be found at
fhac.de/master-aerospace-engineering

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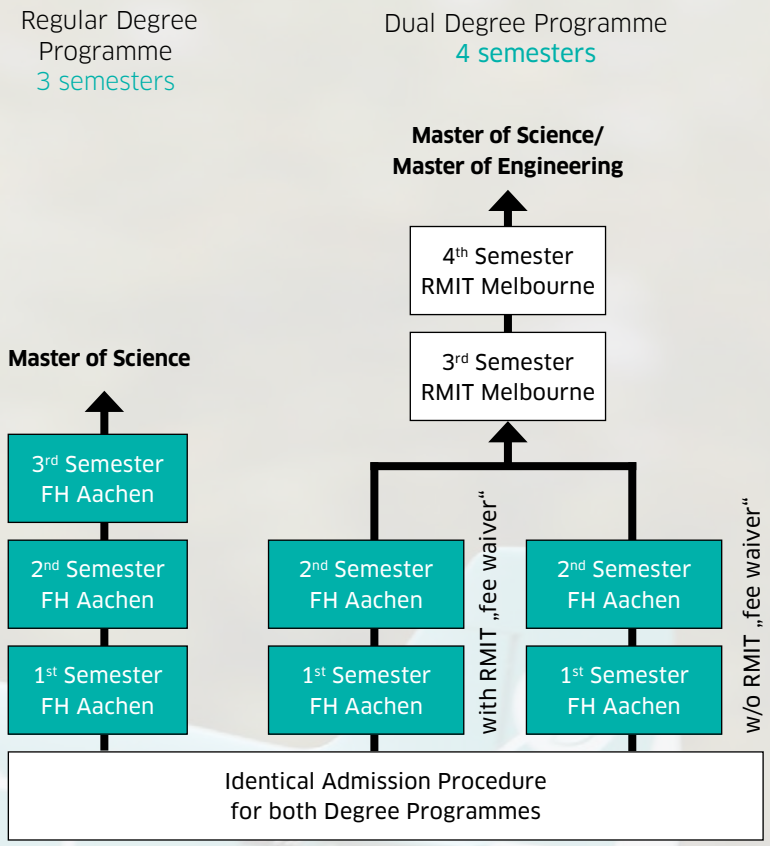
Dual Degree

The Master's degree programme can be studied in a 3 semester variant (Master of Science, M.Sc.) or 4 semester variant (dual degree). Students participating in the dual degree programme spend the first two semesters in Aachen and the following two at the prestigious Royal Melbourne Institute of Technology (RMIT) in Melbourne, Australia. They are awarded both the M.Sc. and M.Eng. degrees. Some more modules to be attended are fixed and a limited number of fee waivers is available to the best students.

In addition to two degrees from renowned universities, dual degree students acquire additional technical and non-technical qualifications and proof of their excellent knowledge of English, making them extremely attractive for the international job market.

Course Structure



Curriculum

Focus Areas:
Airframe Design and Production, Flight Physics and Flight Guidance, Sustainable Aircraft Propulsion Engineering, Space Exploration Engineering or General Aerospace Engineering

Note: Enrolment is possible every Summer or Winter

Name of Module	C/E	GAE Cr	ADP Cr	FPG Cr	SAPE Cr	SEE Cr
1st Semester						
Synergetic Catalogue (SM)	E	15	15	15	10	5
Advanced Aerospace Engineering Catalogue (AAE)	E	15	10	15	15	20
General Competencies Catalogue (GC)	E	0	5	0	5	5
	Total	**30**	**30**	**30**	**30**	**30**
2nd Semester						
Synergetic Catalogue (SM)	E	10	15	10	15	15
Advanced Aerospace Engineering Catalogue (AAE)	E	15	15	15	15	15
General Competencies Catalogue (GC)	E	5	0	5	0	0
	Total	**30**	**30**	**30**	**30**	**30**
3rd Semester						
Master Thesis	C	29	29	29	29	29
Colloquium	C	1	1	1	1	1
	Total	**30**	**30**	**30**	**30**	**30**
	Total cp	**90**	**90**	**90**	**90**	**90**

GAE = General Aerospace Engineering
ADP = Airframe Design and Production
FPG = Flight Physics and Flight Guidance
SAPE = Sustainable Aircraft Propulsion Engineering
SEE = Space Exploration Engineering

Cr: Credits
L: Lecture
C: Compulsory
T: Tutorial
E: Elective
Lab: Laboratory
SWS: Semester periods per week
SU: Seminar

Elective Modules

Name of Module	C/E	CR	SWS L	T	Lab	SU	∑
Summer Semester Synergetic Modules							
Control System Design	E	5	2	1	1	0	**4**
Advanced CAD Methods	E	5	0	0	4	0	**4**
Neural Networks and Artificial Intelligence	E	5	2	1	1	0	**4**
Design of Experiments and Process Optimization	E	5	2	1	1	0	**4**
Winter Semester Synergetic Modules							
Structural Dynamics	E	5	2	1	1	0	**4**
Advanced Finite Element Methods	E	5	2	1	1	0	**4**
Applied Computational Fluid Dynamics	E	5	2	0	2	0	**4**
Composite Design and Manufacturing	E	5	2	1	1	0	**4**
Summer Semester Advanced Aerospace Engineering Modules							
Hypersonic Aerodynamics and Atmospheric Entry	E	5	2	2	0	0	**4**
Hydraulic and Electric Aircraft Systems	E	5	2	2	0	0	**4**
Environmental Effects of Aircraft Propulsion	E	5	2	1	1	0	**4**
Dynamics of Flight / Flight Control	E	5	2	2	0	0	**4**
Aircraft Design	E	5	3	1	0	0	**4**
Planets and Life	E	5	1	1	0	2	**4**
Space Systems and Payload Engineering	E	5	2	2	0	0	**4**
Computational Spaceflight Dynamics	E	5	2	1	0	1	**4**

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Name of Module	C/E	CR	SWS L	T	Lab	SU	∑
Winter Semester Advanced Aerospace Engineering Modules							
Flight Simulation Technology	E	5	2	1	1	0	**4**
Transonic Aerodynamics	E	5	2	2	0	0	**4**
Analysis and Sizing of Aircraft Structures	E	5	2	2	0	0	**4**
Propulsion System Integration	E	5	3	1	0	0	**4**
Exploration Mission Design	E	5	3	1	0	0	**4**
Space Operations and Services	E	5	2	2	0	0	**4**
Space Exploration Project	E	5	0	0	0	4	**4**
Turbomachinery Design and Analysis	E	5	2	1	1	0	**4**
Climate Change Adaptation in Commercial Aviation	E	5	3	0	0	1	**4**
Flight Guidance and Navigation	E	5	1	1	2	0	**4**
Summer Semester General Competencies							
Engineering meets Design	E	5	0	0	0	4	**4**
General Management of Automotive and Aerospace Suppliers	E	5	2	2	0	0	**4**
Technisches Deutsch	E	5	0	0	0	4	**4**
Winter Semester General Competencies							
Critical Thinking and the Scientific Method	E	5	0	0	0	4	**4**
Intercultural Communication	E	5	0	0	0	4	**4**
Transforming Urban Mobility	E	5	0	0	0	4	**4**
Other Faculty electives	E	5	0	0	0	4	**4**

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E: Elective
Lab: Laboratory
SWS: Semester periods per week
SU: Seminar

Modules FH Aachen

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Control System Design (67101)
- State space systems
- Multi-input multi-output (MIMO) control and optimal control
- State observation
- System identification
- Nonlinear control

Advanced CAD Methods (67102)
- Modelling of wireframe structures
- Mathematical description of curves and surfaces
- Modelling of advanced surfaces and shapes
- Modelling of full-parameterised parts
- Analysing and evaluating of surfaces

Neural Networks and Artificial Intelligence (67103)
- Neural networks, machine learning, Big Data
- Supervised and unsupervised learning
- Application, visualisation and analysis of data

Design of Experiments and Process Optimization (67104)
- Objectives, design variables, factors, factor levels
- Full factorial experimental designs and screening experimental designs
- Multiobjective optimization via genetic algorithms

Structural Dynamics (67105)
- Creation of damping and mass matrices within the finite element method (FEM)
- Modal analysis using FEM and experiment as the basis of the structural analysis
- Calculation of the forced vibrations of proportional and non-proportional damped linear vibration systems
- Explanation of structural nonlinearities and extension to non-linear FEM calculations

Advanced Finite Element Methods (67106)
- Derivation of a finite element formulation for static problems
- Nonlinear material behaviour (creep and plasticity)
- Treatment of contact problems
- Basic introduction into stability problems
- Heat transfer and the corresponding thermal stresses

Applied Computational Fluid Dynamics (67107)
- Derivation and discretisation of the conservation equations for fluid dynamics
- Solution methods for discretised partial differential equations
- Grid generation and turbulence modelling
- Examination of CFD results
- Guided CFD tutorials and final CFD project work with presentations

Composite Design and Manufacturing (67108)
- Material characteristics and mathematical material modeling
- Guide lines for lightweight design using monolithic composites and sandwich structures
- Analytical and numerical procedures for strength assessment and manufacturing engineering
- Part design, strength evaluation and manufacturing engineering using realistic industry examples

Hypersonic Aerodynamics and Atmospheric Entry (67201)
- Inviscid hypersonic gas dynamics: lift and drag calculation
- Hypersonic boundary layers: friction and heat transfer
- High-temperature gas effects and kinetic theory of gases
- Hypersonic ground testing facilities and similarity parameters
- Dynamics of Ballistic and Lifting Atmospheric Entry

Hydraulic and Electric Aircraft Systems (67202)
- Overview about Actuators in Aviation
- Basics in Hydraulic Actuator Systems
- Introduction to Simulation Techniques for Mechatronic Systems
- Simulation of an Aileron Actuator in Closed-Loop Control

Environmental Effects of Aircraft Propulsion (67203)
- Inviscid hypersonic gas dynamics: lift and drag calculation
- Hypersonic boundary layers: friction and heat transfer
- High-temperature gas effects and kinetic theory of gases
- Hypersonic ground testing facilities and similarity parameters
- Dynamics of Ballistic and Lifting Atmospheric Entry

Dynamics of Flight / Flight Control (67204)
- Mathematical modeling of aircraft dynamics
- Handling qualities of aircraft
- Design of typical flight control approaches
- Design of state of the art fly by wire systems

Aircraft Design (67205)
- Preliminary sizing of aircraft
- Conceptual design of fuselage, wing, and empennage
- Performance analysis and design assessment
- Approaches and methods in aircraft design
- Assessment of aircraft configurations

Planets and Life (67206)
- Planetary science and astrobiology
- Fundamentals of life
- Habitability of planetary bodies
- Missions for the search and detection of life and biosignatures in the solar system and on exoplanets

Space Systems and Payload Engineering (67207)
- Introduction to space systems engineering incl. requirement-, verification-, and interface engineering
- Introduction to spacecraft development and verification processes
- Introduction to optical spacecraft payloads
- Introduction to payload structural-thermal-optical-performance design and analysis

Computational Spaceflight Dynamics (67208)
- Analytical methods in spaceflight dynamics
- Introduction to spaceflight dynamics software with problem-based examples
- Computation and analysis of three-dimensional interplanetary and lunar trajectories
- Trajectory optimization

Flight Simulation Technology (67209)
- Introduction to real-time flight simulation technology
- Demands concerning real-time flight simulators
- Software design of real-time systems (aircraft and helicopters)
- Certification of real-time flight simulators

Transonic Aerodynamics (67210)
- Review of compressible flow
- Extension of incompressible aerodynamics to compressible flows (sub- and supersonic)
- Numerical simulation methods for transonic flows
- Applied transonic aerodynamics: swept wing, area rule, supercritical airfoils
- Transonic wind tunnels and similarity parameters

Analysis and Sizing of Aircraft Structures (67211)
- Analysis of flight loads
- Preliminary design of aircraft structures including stress analysis
- Failure analysis of aircraft structures
- Sizing of structural components made out of metals and composites

Propulsion System Integration (67212)
- Requirements for the propulsion system and the integration into aircraft
- Regulations of airworthiness authorities
- Interdisciplinary interactions of design processes in aero-engine development
- Fundamentals of project management in aero-engine development

Exploration Mission Design (67214)
- Future space exploration mission targets, including ocean worlds, and the required key technologies and mission designs
- High-ΔV propulsion systems and the required space power systems, including solar sails
- Lander and sample return missions to asteroids and comets
- ESA processes for space science mission development and implementation

Space Operations and Services (67213)
- New space market assessment
- Satellite navigation and communication systems (e.g. Galileo, LEO PNT, EU Secure Connectivity, Starlink)
- Safety and cybersecurity requirements and their impact on space infrastructures and service operations
- Space operations and service design for automated mobility (e.g. autonomous driving, UAV applications,...)

Space Exploration Project (67215)
- Application of space mission definition process
- Application of space mission management approaches
- Application of space systems engineering approaches
- Application of spacecraft and payload design approaches

Turbomachinery Design and Analysis (67216)
- Aerodynamic design process of turbomachinery
- From Thermodynamics to 3D blade geometry
- Analysis of experimental data and CFD results

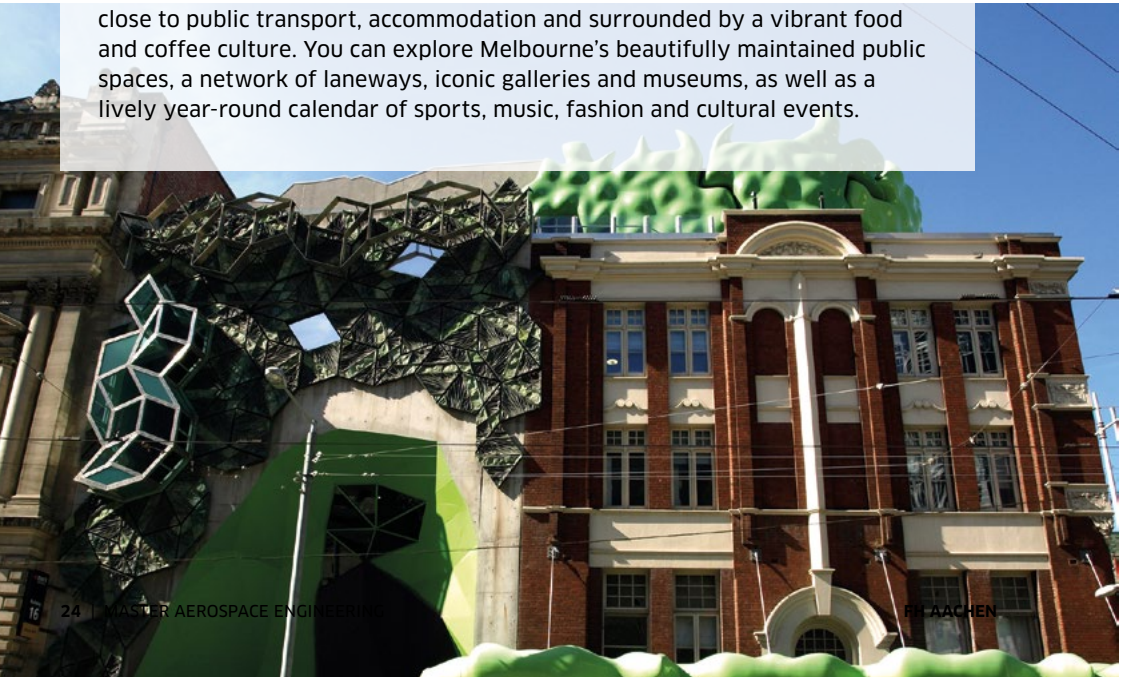
Climate Change Adaptation in Commercial Aviation (67217)
- Fundamentals of climate change
- Power generation and distribution for the mobility sector
- Climate change prediction Impact on aviation related weather phenomena
- Consequences for airports and the infrastructure
- Climate impact on flight operations
- Effects on the aircraft maintenance
- Effects on the overall aviation system
- Adaptation strategies
- Sustainability of development

RMIT – University and College

Our dual degree partner university RMIT is a global university recognized for leadership and innovation in technology, design and enterprise. As a QS 5-Star rated institution, RMIT is ranked as one of the world's leading universities with a strong research record and state-of-the-art facilities and infrastructure. Whether you complete your degree in Australia or on exchange anywhere in the world, RMIT aim to provide students with the best experience possible along with the skills to succeed in their chosen career.

RMIT is one of Australia's top 5 universities for students to go on an international exchange as part of their studies. With campuses in Melbourne and Vietnam as well as access to over 150-plus partner institutions, studying at RMIT puts the world at your fingertips. When you study at RMIT in Melbourne you are part of a vibrant and welcoming university. RMIT has over 100 student clubs, societies and collectives to choose from which are a great way to meet new friends, develop new skills and connect with people who share your interests. You can even start your own club. Safe, multicultural, and voted the world's most livable city seven years in a row (2017 Economist Intelligence Unit Global Livability Ranking) - Melbourne is a great place to live and study.

RMIT's City campus is in the heart of Melbourne's central business district, close to public transport, accommodation and surrounded by a vibrant food and coffee culture. You can explore Melbourne's beautifully maintained public spaces, a network of laneways, iconic galleries and museums, as well as a lively year-round calendar of sports, music, fashion and cultural events.



Modules Royal Melbourne Institute of Technology

Aerospace Materials

- This course provides skills required to assist the design process of aerospace structures and components considering the broad range of engineering materials available.
- Teaching both qualitative and quantitative methods of materials selection.
- Main properties, domain of application and fabrication processes of aerospace materials, with a particular emphasis on lightweight alloys and composite materials.
- Investigating the impact of different materials in critical areas pertaining to the operation of aircraft, such as structural integrity (including prevention methods), airworthiness requirements (including testing and maintenance), sustainability/recyclability issues and cost effectiveness.
- State-of-the-art materials topics (e.g., nanomaterials and smart materials), and assess pathways for the development of aerospace structures and components with optimized features.

Avionics and ATM Systems

- This course aims to address fundamental and advanced topics in Aviation Electronics (Avionics) and Air Traffic Management (ATM) systems.
- The course will cover the fundamental theoretical aspects of the underlying technologies and provides an overview of the principles of the associated electronic equipment incorporated in modern avionics and ATM systems.
- The course will further explore architectures, functions and operations of existing avionic systems (communication and navigation systems, flight instrumentation, flight control systems, etc.) and will also provide an understanding of modern Communication, Navigation and Surveillance/Air Traffic Management and Avionics (CNS+A) concepts, including design, test/evaluation, and certification challenges.
- How these systems contribute to the safe, reliable and efficient operation of modern aircraft and Remotely Piloted Aircraft Systems (RPAS).
- Particular emphasis is given to emerging technologies (sensors, data fusion algorithms, etc.) aiming to improve safety, efficiency, maintainability/reliability and environmental sustainability of aircraft and RPAS in the current and next generation ATM framework (in line with SESAR and NextGen modernization initiatives).
- In addition, the distinctive characteristics of avionic systems used in military aircraft and RPAS are discussed (guided weapon systems, electronic-warfare equipment, etc.).

Aviation Safety Systems

- This course provides the students with an understanding of safety management systems (SMS) by addressing to

the fundamental components stipulated in the ICAO framework.
> Students will get an insight into key areas that are relevant for the implementation of a safety program in the context of small and large organizations in the aviation sector, including Risk Management, Human Factors, Security, Safety Culture and Investigation/Auditing techniques.
> The final part of this course will also cover the technical aspects impacting aviation safety, particularly the contribution of aircraft/airport safety systems to the mitigation of risks inherent to flight operations.

Research Methods in Engineering
> Development of skills to undertake a comprehensive literature review and research project plans.
> This course introduces the general principles, methodologies and practices of data collection (both qualitative and quantitative) and analysis in qualitative research, analytics, content analysis, design aspects and research ethics.
> Data analysis tools will be covered as well as understanding the validity and reliability of data.
> Development of skills in communicating scientific findings including writing academic publications and presentations.

Master's Research Project Part 1 & Part 2
> Designed to consolidate an expand knowledge through an in-depth experiment it analytical study of technical an engineering management application.
> Work on research projects individually or in small groups
> In this courses it will be required to plan, manage and complete a research project, conduct a critical analysis of relevant literature, undertake research work to a high level standard of professional engineers and researchers, evaluate and report the research findings.
> It is a work-integrated project done either in conjunction with industry or in a simulated engineering work environment.

FH Aachen University of Applied Sciences

One of the biggest and most important universities of applied sciences in Germany:
> more than 14,500 students and 2,000 graduates a year
> leading position in research volume
> ten faculties with more than 90 degree programmes
> nine in-house and three affiliated institutes as well as four competence platforms
> locations in Aachen and Jülich
> strong competences in the future-oriented areas of energy, mobility, and life sciences
> FH Aachen's Freshman Institute prepares students from all over the world for a further course of study in Germany

Organisational Matters

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FAQs
Please consult the website at
fhac.de/master-aerospace-engineering

Standard Period of Study and Start of Studies | The standard period of study of the Master's degree programme is 3 semesters, and 4 semesters for the dual degree option. Admission to the Master's degree programme is possible every summer semester and every winter semester.

Tuition Fee | There is no tuition fee at FH Aachen. Students have to pay the contribution fee to the students' union executive committee (AstA) each semester. This fee includes local public transportation.
Details can be found at *www.studierendensekretariat.fh-aachen.de*

Students participating in the dual degree programme with RMIT pay the normal international student tuition fees at RMIT Melbourne. A limited number of fee waivers are available. More information can be found at *www.international.rmit.edu.au/info/programfees.asp.*

Application Documents | For further information, please refer to *fhac.de/master-aerospace-engineering*

Application Deadline | Application deadlines for the admission restricted (oNC) degree programme are as follows:
For the Summer Semester: Citizens of Germany, other EU-member states or EEA states, as well as foreign applicants holding a German Bachelor's Degree: 15 January, for applicants from abroad: 30 November

For the Winter Semester: Citizens of Germany, other EU-member states or EEA states, as well as foreign applicants holding a German Bachelor's Degree: 15 July, for applicants from abroad: 31 May

Detailed information regarding the affiliation to these groups can be found at *www.recht.nrw.de*

Any change of this date will be published on the website.

Description of Modues and List of Lectures | As well as details about application deadlines are available at
fhac.de/master-aerospace-engineering

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HochschulAllianz für
Angewandte Wissenschaft

Mitglied von
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an Hochschulen e.V.

VIELFALT GESTALTEN
RE-AUDIT
DES STIFTERVERBANDES
ZERTIFIKAT 2022

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