

Overview

Target Group

- You are a national or international applicant?
- Are you passionate about innovation, technology, and interdisciplinary teamwork in a global context?
- Are you excited about modern technologies like green energy, sustainable mobility, digitally supported and automated production and applied AI?
- Do you have a strong foundation in mathematics and physics and would like to study an international engineering program involving various hands-on elements?
- Do you have strong English language skills of at least B2? Join us at Aalen university.

Degree

Bachelor of Engineering

Study Duration

7 semesters

Tuition / Semester Fees

Study fees of 1500€ per semester apply to non-EU students.

Beginning of Studies

Winter semester, beginning of October

Application Deadline

15th of August

Unique Features

- Close collaboration with local and international technology leading companies
- Supportive environment, medium class sizes and approachable lectures and staff
- Opportunities for international study and interdisciplinary projects
- Strong focus on digital tools and modern production methods
- Practical internship semester for real-world experience

Application/Admission



Step into the future with Aalen University of Applied Sciences!

With a lively student community and one of Germany's most attractive campuses, we offer more than 70 degree programs designed to enable students to become the specialists of tomorrow. Our hands-on approach bridges theory and practice, allowing you to apply what you learn in cutting-edge labs, workshops, or our Innovation Center as well as through many student-led initiatives. Through close cooperation with regional companies – including numerous world market leaders – students have the opportunity to network with local companies during their studies. Join us at Aalen University of Applied Sciences and unlock your potential for success!

Contact

Questions regarding visa, travel, bursaries

Contact our International Relations Office:
aaa@hs-aalen.de

Dean of Studies



Prof. Dr. Tilman Traub
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Academic Program Manager



Marion Niedinger
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Mechanical Engineering Bachelor of Engineering (B.Eng.)



hs-aalen.de/eme

Mechanical Engineering

Mechanical Engineering is an integral part of our daily life: Mobility, cutting edge technology and sustainable energy supply is unimaginable without passionate mechanical engineers. Are you passionate about shaping the world that we live in? Then come and join the team!

Our English-taught Mechanical Engineering program equips you with the skills needed to excel in modern industry. Over the course of seven semesters, which includes a practical internship, you'll gain hands-on experience and a deep understanding of engineering principles. You'll learn to work independently on value creation processes and take on responsible roles in the machinery and automotive sectors. Our program emphasizes innovation and interdisciplinary collaboration, preparing you for a dynamic career in engineering.



Study Program

Our program stands out due to its strong focus on digital tools and modern production methods. Our courses combine lectures, hands-on labs in state-of-the-art laboratories, and project-based learning. Our focus on application will ensure a comprehensive and sustainable learning experience. Excursions and guest talks will connect you to both local and international companies. The practical semester ensures real-world experience and will broaden your global perspective. This holistic approach makes our graduates highly sought after in the job market.



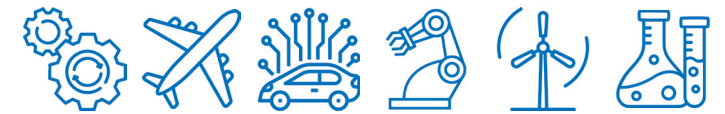
Course of Study

Competencies

- Application of digital design and simulation tools
- Analysis and synthesis of mechanical engineering systems and processes
- Use of innovative production methods and materials
- Utilization of digital systems in mechanical engineering
- Execution of complex development projects
- Strong focus on integration, teamwork and intercultural training

After Graduation

With the exceptional density of global tech companies at our doorstep completing your degree at Aalen University will open various gateways for you on a national and international scale. Graduates are qualified to work as engineers in various sectors, including the machinery, automotive, aerospace and renewable energy sector.



Overview

Semester	7	Bachelor Thesis		Studium Generale	Project	Elective Module	Elective Module	Further qualification opportunities ... Master Master's program name
	6	Additive Manufacturing	Light Weight Design	System Simulation	Engineering Design	Elective Module	Elective Module	
	5	Practical Semester						
	4	Finite Elements, FEM	Process Automation and Control	Dynamics of Machinery	Machine Elements II	Polymer Materials and Plastics Processing	Product Development	
	3	Statistics	Sensors and Data Acquisition	Engineering Mechanics III	Machine Elements I	Thermodynamics and Fluid Mechanics	Manufacturing and Production Systems	
	2	Mathematics II	Electrical Engineering	Engineering Mechanics II	German II or Technical English II	Computer Science II	Physics	
	1	Mathematics I	Materials Science	Engineering Mechanics I	German I or Technical English I	Computer Science I	3D-CAX	

regular Module elective Module

Typical career paths include jobs as development, project, lab, and test engineers. You'll have the skills to move frontiers in industries such as med-tech, e-mobility, and energy storage. The programs' strong emphasis on soft skills and ethical considerations prepares you for leadership positions and active participation in society. To further your academic career, you have the option to advance with one of our many Master programs. Your expertise will be in high demand across multiple engineering disciplines ensuring a rewarding and impactful career. Our aim is to make you feel at home