

Bachelor degree programme **AUTOMOTIVE ENGINEERING**

ENGINEERING > AUTOMOTIVE ENGINEERING > ELECTRONIC SYSTEMS > DESIGN & COMPUTATION > MODELLING & SIMULATION > SCIENCE

The degree programme is unique in Austria and prepares young people interested in technology for successful international engineering careers. The programme focuses on the development of sustainable and innovative mobility technologies. Our principle of project based learning allows our students to work on application oriented projects throughout their studies with a focus on engineering mathematics, engineering mechanics, thermodynamics, electrical engineering and power train engineering.

In addition to learning about the technical and scientific aspects of automotive engineering students will also acquire social skills and an understanding of economic and legal contexts and environmental engineering issues. Close contacts with companies and partner universities facilitate access to an internship and give our graduates a head start into a successful career. After graduation, students may also choose to specialise further by enrolling on the FH JOANNEUM master degree programme in Automotive Engineering.

“The degree programme provides a well-founded basis in engineering as well as a profound insight into automotive and vehicle engineering.”

DI, DI (FH) Robert Kalcher, BSc, Graduate Development Engineer, AMSD Advanced Mechatronic System Development KG, Graz

FACTS

- Bachelor of Science in Engineering (BSc)
- Full-time
- 6 semesters / 180 ECTS
- Language of instruction: German
- 54 places per year
- Head of Degree Programme:
FH-Prof. DI Dr. Kurt Steiner
- FH JOANNEUM Graz

www.fh-joanneum.at/fzt

CAREER PROSPECTS

Our graduates are able to analyse vehicles and comparable complex systems in a holistic approach, including ecological aspects. Automotive engineers are qualified to work in a range of positions, from design, testing and trials through to production, sales and quality assurance.

“The Automotive Engineering programme allowed me to obtain practical training and a broad range of expertise and was excellent preparation for my career. The project-related team work also provided a chance to improve my soft skills. As a graduate of this course, you are in demand across the world in the automotive industry.”

DI (FH) Pina Michaela Writzel, Graduate
Automatic gearbox testing, Audi AG

CURRICULUM: 180 ECTS (30 ECTS per semester)

1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester
Engineering Mathematics 1 5 ECTS	Engineering Mathematics 2 6 ECTS	Engineering Mathematics 3 5 ECTS	Engineering Mechanics 3 (Kinetics) 5 ECTS	Mechanical Components 4 ECTS	Introduction to Quality Management 1 ECTS
Computer Science 2 ECTS	Strength of Materials 1 4 ECTS	Engineering Mechanics 2 (Kinematics) 4 ECTS	Thermodynamics 2 5 ECTS	Fluid Mechanics 5 ECTS	Logistics in the Automotive Sector 2 ECTS
Fundamentals of Science 4 ECTS		Software Development 3 ECTS	Control Engineering 2 ECTS		Internal Combustion Engines 2 3 ECTS
Basics of Engineering and Technology 3 ECTS	Introduction to Electrical Engineering 4 ECTS	Strength of Materials 2 4 ECTS	Vehicle Dynamics and Chassis Engineering 4 ECTS	Internal Combustion Engines 1 3 ECTS	Internship 14 ECTS
Technical Drawing and Introduction to CAx 5 ECTS	Materials Science 1 3 ECTS	Thermodynamics 1 5 ECTS	CAx1 4 ECTS	Gear Design 2 ECTS	
Engineering Mechanics 1 (Statics) 5 ECTS		Electrical Machines and Inverters 3 ECTS	Mechatronics Lab 2 ECTS	CAx2 4 ECTS	
Written Communication, Coursework 2 ECTS	Programming Project 3 ECTS	Materials Science 2 2 ECTS		Bachelor's Thesis 1 4 ECTS	
Introduction to Automotive Engineering 2 ECTS	Project Management 1 ECTS	Electronic Systems 3 ECTS	Vehicle, Industry and Environment 2 ECTS		Engine and Gear Testing 3 ECTS
English Foundation 2 ECTS	Law 2 ECTS	Electronics Lab 2 ECTS		The Global Workplace 1 2 ECTS	The Global Workplace 2 2 ECTS
Business Administration 2 ECTS	English for Automotive Engineers 1 2 ECTS	English for Automotive Engineers 2 2 ECTS	The Global Workplace 2 2 ECTS		
Engineering and Technology Fundamentals	Engineering Subjects	Project, Lab, Bachelor's Thesis, Internship	Business Subjects, Law, Social Skills	Language (English)	