OVERVIEW

Degree
- Bachelor of Engineering (B.Eng.)

Duration
- 8 Semester (4 years)

Start
- March (summer semester)

Taught in
- 1st - 3rd semester: English, German language courses for A2 through B2 part of curriculum
- From the 4th semester: English and German

Admission requierements
- General German university entrance qualification, or please check your eligibilty at the DAAD if you own an international qualification
- Language requirements
- German A1 | English B2
- A successfully completed admission test (online option available). The test consists of questions from Mathematics and Physics.

Key focus areas:
- Electromobility
- Autonomous driving / mobile robotics

Postgraduate opportunities
- Master Applied Research in Engineering Sciences
- Master Automotive Electronics
- Master Electrical Engineering and Information Technology
- Master Electromobility

Fees
- €72 student union fee per semester
- * International applicants and students

APPLICATION

Application period
- 15 November - 04 December

Online application
- In the Primuss Portal at www.th-deg.de/en/apply

Notice of acceptance or denial
- In the Primuss-Portal

Enrolment
- Information available in letter of admission

Prep courses
- See www.th-deg.de/prep-courses (no obligation)

www.th-deg.de/emi-b-en

STUDY LOCATION

Deggendorf Institute of Technology
Dieter-Görlitz-Platz 1
94469 Deggendorf
Germany

www.th-deg.de/en/deggendorf-campus

CONTACT

Are you interested in studying for this Bachelor in AI and would like to find out more? Please direct all enquiries to:

welcome@th-deg.de
www.th-deg.de/en/advice

Deggendorf Institute of Technology
Dieter-Görlitz-Platz 1
94469 Deggendorf, Germany
Tel. 0991 3615-0
Fax 0991 3615-297
info@th-deg.de
www.th-deg.de

/HochschuleDeggendorf
/th_deggendorf
/TH_Deggendorf
/THDeggendorf

SYSTEM AKKREDITIERT Akkreditierungsrat

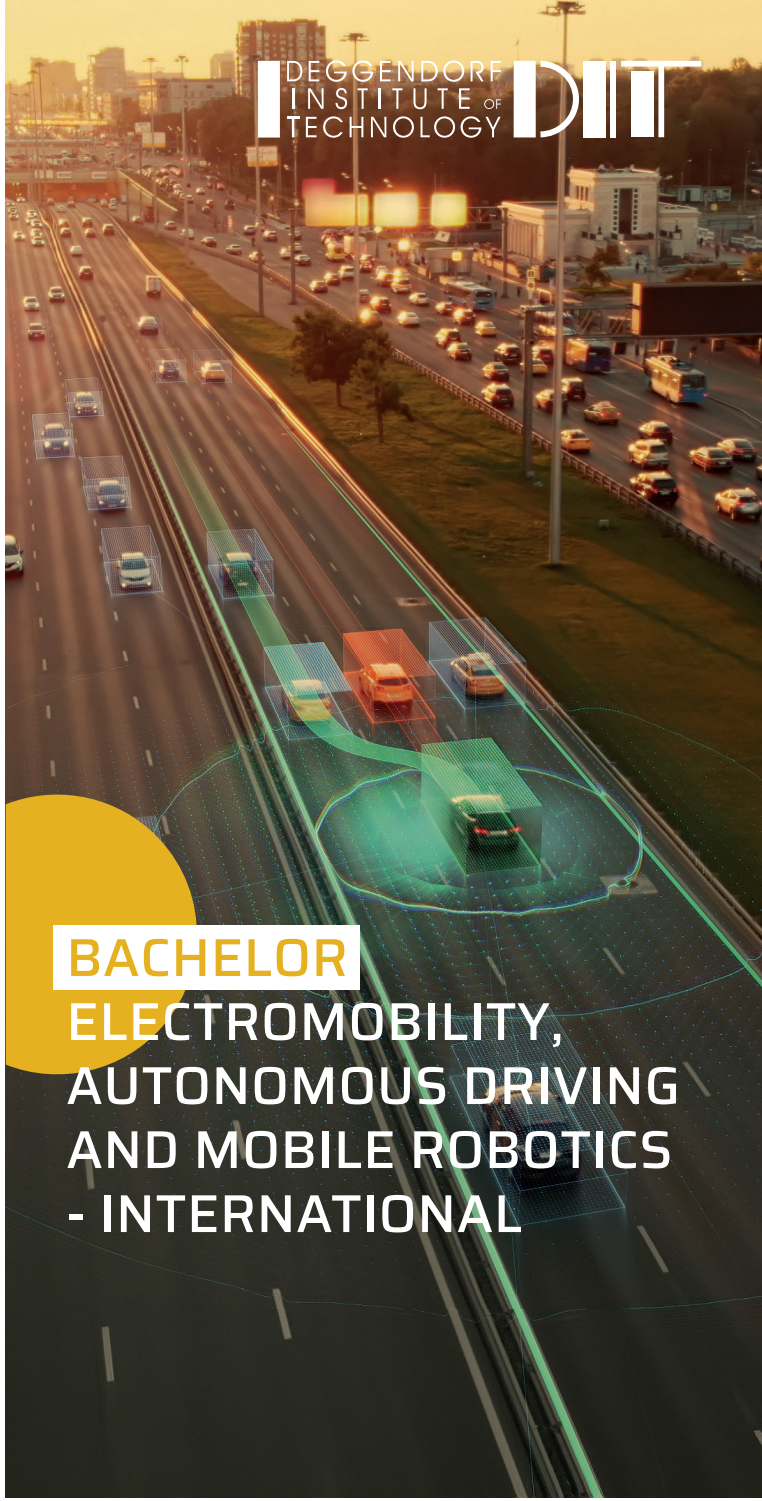
MINTernational BEST PERFORMANCE PRIZE

member of EUA European University Association

FAMILIE IN DER HOCHSCHULE

CODE of CONDUCT

PIONEERING & VIBRANT



BACHELOR ELECTROMOBILITY, AUTONOMOUS DRIVING AND MOBILE ROBOTICS - INTERNATIONAL

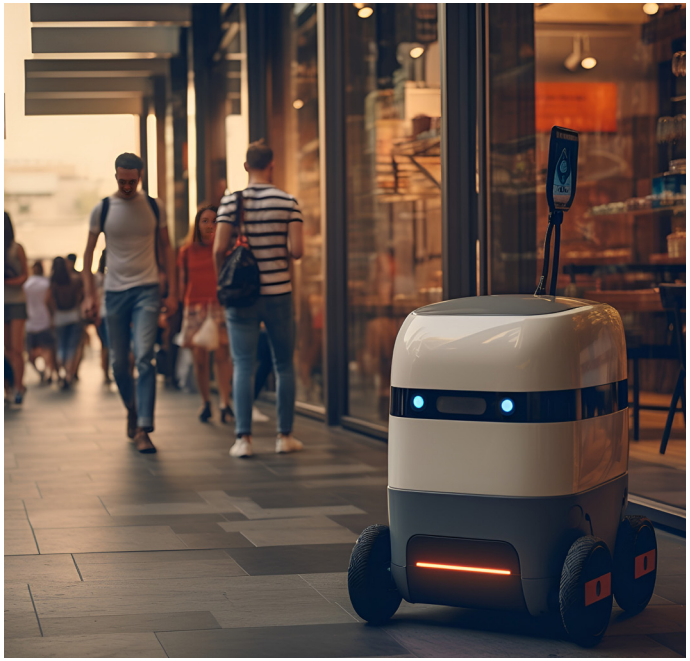
THE FUTURE OF MOBILITY STARTS NOW

The Bachelor's programme **„Electromobility, Autonomous Driving and Mobile Robotics - International"** is aimed at you as an international prospective student, as in the first three semesters you will receive German language courses as part of the curriculum in addition to technical training in English.

This not only enables you to attend lectures in German from the fourth semester onwards. This guarantees you a successful entry into the German job market.

As an engineer in this field, you will have acquired extensive competences to help shape the rapidly progressing development, especially in the field of „mobility". Modern mobility is not only the topic of car manufacturers and individualised transport, but all other industries are also moving inexorably towards the mobile future. Your studies will make you part of a community that develops intelligent, energy-efficient and resource-saving solutions to master the enormous challenges facing the economy and society.

Pleaes note: In order to be admitted to this programme, a German language level of A1 is required in addition to an English language level of B2.



COURSE CONTENT

1. Sem.	Mathematics I, Basics in Electrical Engineering I, Basics in Digital Technology, German I, Self-organisation during your study
2. Sem.	Mathematics II, Basics in Electrical Engineering II, Informatics I, German II, Subject-specific Compulsory Elective I (AWP)
3. Sem.	Basics in Electrical Engineering III, Informatics II, Material Sciences, Physics I, German III, Subject-specific Compulsory Elective II (AWP)
4. Sem.	Statistics and Stochastics, Electronic Components, Control Technology I, Electrical Metrology, Internship Electrical Metrology, Physics II, Scientific Compulsory Elective (FWP)
5. Sem.	Micro Computer Technology, Real-time Systems, Control Technology II, Power Electronics I, Automotive Bus Systems, Scientific Compulsory Elective (FWP)
6. Sem.	**Internship** Practical Seminar Internship Accompanying Specification Course
7. Sem.	Electric Machines, Electromagnetic Compatibility, Image Processing **Key focus Electromobility** Power Electronics II, Battery Technologies, Charging Stations, Hydrogen Technology **Key focus Autonomous Driving/Mobile Robotics** Model-based Controller Design and Protection, Autonomous Driving, Mobile Robotic
8. Sem.	Sensors/Optics, Subject-specific Compulsory Elective III (AWP), Business Administration, Scientific Work, Sustainable Mobility, Seminar **Bachelor Thesis**

CAREER PROSPECTS

The automotive industry is one of the most popular employers for engineers, especially here in southern Germany. As an electrical engineer, the automotive and supplier industry also offers attractive jobs. Especially when it comes to modern mobility. If you have chosen electromobility as your major, you can use your knowledge in the entire chain of effects of electric vehicles in you job. Starting with the power supply at the charging station, through the storage of energy in batteries to intelligen power electronics for drive motors. You can also work in the field of hydrogen technology after graduation. If you have chose to specialise in autonomous driving/mobile robotics, you will later work on autonomously acting systems on roads or in production plants. The application of model-based methods is part of your professional practice, possibly also PLC programming or machine learning.

If you want to be succesful in this profession, you should have a good sense for interdisciplinary and often international teamwork. Forward-looking thinking and the joy of testing your solutions should be as natural to you as the will to advance technology. In the degree programme Electromobility, Autonomous Driving and Mobile Robotics, you will receive a broad and qualified basic training that will enable you to do all of this.

Job opportunities are offered above all in companies in the automotive and supplier industry. But also in public service administrations and in independent companies. As a graduate you can expect engineering activities in the following fields of work:

- Development (concept, design, calculation, simulation and construction) of hardware and software
- Manufacturing (work preparation, production)
- Project engineering
- Sales (customer consulting and project management)
- Assembly, commissioning and service
- Operation and maintenance
- Monitoring and assessment