



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Bachelor's degree



Electrical Engineering – Automation and Industrial IoT

Hochschule Mannheim - University of Applied Sciences • Mannheim



Overview

Degree	Bachelor of Science in Electrical Engineering
Teaching language	<ul style="list-style-type: none">• English• German
Languages	<p>The language of instruction is English for the first year. Classes are conducted in German from the third semester onwards. The studies start at the beginning of September before the first semester with a three-week language, culture and orientation programme. In the following semesters, language instruction is an integral part of the degree programme. In addition, all-day language classes in three-week sessions take place during the semester breaks.</p>
Programme duration	7 semesters
Beginning	Winter semester
Additional information on beginning, duration and mode of study	<p>This international programme always starts directly at the beginning of September with a welcome meeting and a German placement test to establish the right German language course level for each student. You will start with a mandatory three-week German culture and language preparatory course in the first three weeks of September before the first lectures start.</p>
Application deadline	<p>The application portal opens on 2 April for the winter semester 2024/25.</p> <p>Application deadline: 31 July Start of courses: 2 September (No summer intake)</p> <p>Recommended application timeline: 15 May at the latest for international applicants (for visa reasons) 15 July at the latest for EU applicants and those not living in the Mannheim area yet (for student housing reasons)</p> <p>Updated application information and all details about applying can be found at https://www.ete.hs-mannheim.de/bachelor/apply.html.</p> <p>For questions, contact apply.eeb@elektrotechnik.hs-mannheim.de.</p>
Tuition fees per semester in EUR	1,500 EUR

Additional information on tuition fees

International students who are citizens of an EU or EEA country don't have to pay tuition fees.

Non-EU students need to pay tuition fees of currently 1,500 EUR per semester. Upon request, students may be exempted from tuition fees. Details can be found at <https://www.ete.hs-mannheim.de/study-organization/tuition-fees.html>.

Joint degree / double degree programme

No

Description/content

Industry 4.0 and **Internet of Things (IoT)** are important topics in automation technology. The development in these areas is progressing very quickly. It is important to Germany's industry to remain in a leading position.

Automation technology enables developments such as the creation of new production sites that meet customer needs in a flexible way and that are safe in case of a failure. Connectivity via Internet as well as data security are vital.

Female and male engineers with an electrotechnical background are part of one of the most popular professional groups in demand in Germany. Salaries and future career opportunities could not be better currently.

Our students will participate in a multilateral course of studies. The programme gathers the fields electrical engineering, computer science and measuring and control technology. It combines small study groups, individual support, intensive practical orientation and close contacts to the regional industry.

Course details and the course structure can be found at <https://www.ete.hs-mannheim.de/electricalengineering-automation/description.html>.

Course Details

Course organisation

The first year is conducted in English (foundation courses) and includes intensive language courses in German. The second year is conducted in German. Details regarding our **German language training** can be found at <https://www.ete.hs-mannheim.de/study/language-training.html>.

Students spend their fifth semester at the **industrial work placement** (organised in one of the many companies in the Mannheim area or abroad). The final year is conducted in German, including the final project (thesis).

Guidance and counselling offered by mentors is available. Support services are provided by tutors. The programme is organised in a modular way.

[» PDF Download](#)

A Diploma supplement will be issued

Yes

International elements

- Language training provided
- Study trips
- Projects with partners in Germany and abroad
- Content-related regional focus

Integrated internships

The fifth semester is set aside for a six-month work placement (internship) in industry. The industrial placement has to last at least 100 working days.

Course-specific, integrated

Yes

German language courses

Course-specific, integrated English language courses	No
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Costs / Funding

Tuition fees per semester in EUR	1,500 EUR
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Additional information on tuition fees	<p>International students who are citizens of an EU or EEA country don't have to pay tuition fees.</p> <p>Non-EU students need to pay tuition fees of currently 1,500 EUR per semester. Upon request, students may be exempted from tuition fees. Details can be found at https://www.ete.hs-mannheim.de/study-organization/tuition-fees.html.</p>
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Semester contribution	Currently 202.85 EUR per semester
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Costs of living	Approx. 700-800 EUR per month
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Funding opportunities within the university	No
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Requirements / Registration

Academic admission requirements	A university / higher education entrance qualification is required. Admission is based on the applicant's academic and professional performance in the subject concerned. Alternatively, good SAT/ACT scores in mathematics and/or physics will be taken into account.
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Required application documents:

- CV
- proof of sufficient **English language skills** (details below)
- notarised copies of **school/university certificates / transcripts / SAT or ACT score report** if available / "**Studienkolleg**" **type T** if available
- at least one **reference letter** from school/university
- **motivational letter** (maximum one A4 page):

Why do you want to study electrical engineering? What are your specific talents or interests? What is your motivation for studying in Germany? Why do you want to study in Mannheim? Which skills and what knowledge do you want to gain by studying with us?

Application procedure:

1. **E-mail your application documents for initial evaluation** to Mrs Silke Förstermann (apply.eeb@elektrotechnik.hs-mannheim.de). She will give advice and check eligibility for you.
2. Go to <https://campus.hs-mannheim.de/>
3. **Switch to English language with country icon** in right bottom corner on front page of the campus portal.
4. Register your personal details in the portal to generate your application account.
5. Prepare your documents: Produce PDF scans of **max. 5 MB per document**.
6. Create an application for **Bachelor's in Electrical Engineering (EEB)**.

7. Upload all necessary application documents.
8. Submit your complete online application before the end of our application deadline. We recommend submitting the application as soon as possible to speed up visa and housing procedures.

Language requirements	English: TOEFL 550 points (paper-based), 213 points (computer-based), 80 points (iBT), or IELTS > 6.0 for applicants (unless English is the native language or official language of instruction at secondary school)
Application deadline	<p>The application portal opens on 2 April for the winter semester 2024/25.</p> <p>Application deadline: 31 July Start of courses: 2 September (No summer intake)</p> <p>Recommended application timeline: 15 May at the latest for international applicants (for visa reasons) 15 July at the latest for EU applicants and those not living in the Mannheim area yet (for student housing reasons)</p> <p>Updated application information and all details about applying can be found at https://www.ete.hs-mannheim.de/bachelor/apply.html.</p> <p>For questions, contact apply.eeb@elektrotechnik.hs-mannheim.de.</p>

Submit application to	<p>The application portal opens on 2 April for the winter semester 2024/25.</p> <p>Apply online via our application portal: https://campus.hs-mannheim.de.</p> <p>Application details and guidance are available at https://www.ete.hs-mannheim.de/bachelor/apply.html.</p>
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Services

Possibility of finding part-time employment	There are a lot of possibilities for student assistantships (but usually not for first-year Bachelor's students).
Accommodation	Student halls of residence are run by the university's International Office in cooperation with Student Services. Reservation is possible after admission (subject to availability). Monthly rent for single rooms is approximately 280 EUR. Check details on https://www.stw-ma.de/en/Housing/Student+Accommodations.html .
Career advisory service	There are additional courses that focus on developing key skills. Guidance and counselling are provided by mentors.
Support for international students and doctoral candidates	<ul style="list-style-type: none"> • Welcome event • Buddy programme • Tutors • Accompanying programme • Specialist counselling • Cultural and linguistic preparation • Visa matters

- Pick-up service

Supervisor-student ratio

1:18



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**Ilya Hanani Binti
Norsalehe**

**International student from
Malaysia**

One of the greatest things in my life is being able to study and live in Germany. Living here in Mannheim is one of the best decisions I have ever made. Experiencing a new culture and the beautiful sights in Mannheim is one reason why I love living here. Being part of a very friendly group of international students, the citizens of Mannheim and also the staff from Hochschule Mannheim has made everything so smooth upon my arriving in Germany and settling in here.



Meet Our Students

Get to know the Department of Electrical Engineering at Hochschule Mannheim — University of Applied Sciences.

Meet our students and learn about our future topics. We want to arouse curiosity and show that electrical engineering can be fun.

» more:

<https://youtu.be/VX1QwFVCJJs>

Hochschule Mannheim - University of Applied Sciences



Mannheim campus, Hochschule Mannheim — University of Applied Sciences

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With about 5,300 students, 180 professors, over 100 part-time lecturers and more than 300 technicians and administrative staff, Hochschule Mannheim is one of the largest universities of applied sciences in the Federal State of Baden-Württemberg. With all the assets of a modern university campus, Hochschule Mannheim provides students with ideal conditions to meet the requirements posed by the professional careers they have set their sights on. Close working contacts with industry, professional associations and cultural institutions, together with the Karl Völker Foundation affiliated to the university, represent an ideal breeding ground for internationally acclaimed research and development activities. For many years, Hochschule Mannheim has been one of the most research-intensive universities of applied sciences in Baden-Württemberg. As such, it enables its students to participate in a wide range of research and development projects prior to graduation.



University location

The city of Mannheim is situated in a beautiful area where the Rhine and Neckar rivers meet. The hills of the Palatinate and the Odenwald forest are visible in the distance. The old university town of Heidelberg with its famous castle is less than a 15-minute train ride away. Reaching it is not a problem with the Mannheim public transport student ticket.

With its population of some 320,000, its theatres, cinemas, museums, Art Nouveau buildings and new technology industrial centres, Mannheim offers a fascinating combination of culture, tradition and innovation.

Conveniently for all overseas students, Mannheim is less than an hour's bus ride from Frankfurt International Airport. It has excellent train connections to important European metropolitan centres such as Berlin, Milan, Munich, Paris, and Zurich.

Contact

Hochschule Mannheim - University of Applied Sciences
Department of Electrical Engineering

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68163 Mannheim

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🌐 Course website: <https://www.ete.hs-mannheim.de/electricalengineering-automation/description.html>

📘 <https://www.facebook.com/ElektrotechnikHochschuleMannheim/>

📷 https://www.instagram.com/hochschulemannheim_e/

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International Programmes in Germany - Database

www.daad.de/international-programmes

www.daad.de/sommerkurse

Editor

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German Academic Exchange Service

Section K23 – Information on Studying in Germany

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www.daad.de

GATE-Germany

Consortium for International Higher Education Marketing

www.gate-germany.de

Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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