

"My decision to study at the HTW was one of the best I ever made. Each professor brings a wealth of real-world industry experience to their lectures, seamlessly bridging the gap between theory and practical application. The patience and consideration I encountered as a foreign-language student at the HTW was paramount to my success."

James Hollis (USA)
7th semester
Vehicle Mechatronics

Career prospects

- Design Engineer Power Supply
- Project Engineer Development (Software/Hardware)
- Development Engineer Drive Technology
- IC Designer (Frontend/Backend)

Master's programme at HTW Dresden

- Master Elektrotechnik/Electrical Engineering (German language)
- Master Angewandte Robotik (German language)

Admission requirements

- University entrance qualification (equivalent value to the German "Abitur")
- English language proficiency at level B2 CEFR (Common European Framework of Reference for Languages)

Application

- International applicants with a foreign university entrance qualification apply via uni-assist.
 Application deadline for winter semester: 15th June More information about the application process at www.uni-assist.de.
- Applicants with a German "Abitur" or "Fachhochschulreife" apply directly at the HTW Dresden.
 More information at www.htw-dresden.de/bewerbung.

Studying at HTW Dresden



High practical relevance in teaching and research



Personal study atmosphere in small groups



Rich variety of **internship opportunities** in industry



no tuition fees



German course during studies (additional costs)





Contact

Subject-specific consultancy

E-Mail: et.studium@htw-dresden.de Phone: +49 (0)351 462 2419 www.htw-dresden.de/elektrotechnik

Student advisory service

E-Mail: international@htw-dresden.de Phone: +49 (0)351 462 2015 www.htw-dresden.de/international

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www.htw-dresden.de Visit us at:







Hochschule für Technik und Wirtschaft Dresden University of Applied Sciences



Electrical Engineering/ Elektrotechnik

Bachelor of Engineering



Electrical Engineering/ Elektrotechnik

Does the long tradition and ingenuity of German engineering fascinate you? Are you interested in the operating principles of electrical systems? How about studying Electrical Engineering and learning German at the same time?

Our study programme Electrical Engineering is just what you are looking for! It is specifically designed for international students and offers a unique curriculum that combines a sound education in Electrical Engineering with the acquisition of German language skills.

Short profile

Degree: Bachelor of Engineering (B. Eng.)

Teaching 1st - 2nd semester English

Language: 3rd - 4th semester English and German

5th - 8th semester German

Semester start: winter semester

Duration: 8 semesters

ECTS: 180







Study objectives

By studying Electrical Engineering/Elektrotechnik you gain both broad electrotechnical basic knowledge and know-how in subject-specialized modules. Our applied methods of analysis, design, dimensioning, calculation, measurement and inspection will equip you with an academic, practice-oriented competence preparing you for a various range of working areas of electrical engineering such as renewable energies, medical technology as well as industrial control. You will be able to plan and construct complex electrical systems, to manage projects, to coordinate quality management and much more. In addition, you will be qualified for a Master's programme in Electrical Engineering.

The first four semesters of part-time study are predominantly in English with additional German language training. The following semesters take place in full-time study in German.

Course of study

BACHELOR



1. & 2. Semester:

Basic studies & German courseAcquisition of basic knowledge
(e.g. Electrical Engineering, Mathematics)



3. & 4. Semester:

Basic studies & German course Acquisition of basic knowledge (e.g. Physics, Computer Science)



5. Semester:

Basic studies

Acquisition of basic knowledge (e.g. Electronics, System and Control Theory)



6. & 7. Semester: Professional studies

Acquisition of applicationoriented knowledge (e.g. Digital Systems)



8. Semester: Internship & Thesis

Ten-week industrial internship, Bachelor thesis

Bachelor of Engineering

Curriculum

1. Semester: Basic Studies (part-time)

Electrical Engineering Fundamentals 1, Mathematics 1, Topics of Electrical Engineering, First Year Project and Study Skills

2. Semester (part-time)

Electrical Engineering Fundamentals 2, Mathematics 2, Computer Science 1

3. Semester (part-time)

Computer Science 2, Mechanical Design, Technical Physics 1

4. Semester (part-time)

Electronics Design, Technical Physics 2, Electronics

5. Semester (full-time)

Electrical Engineering Fundamentals 3, Mathematics 3, Measurement Engineering, System Theory, Fundamentals of Microprocessors, Digital Circuits

6. Semester: Advanced Studies (full-time)

Energy	Automation	Information
and	and	and
Drives	Mechatronics	Electronics
e.g.: High Voltag Technology, Power Electronics, Electrical Safety/ EMC	e. g.: Actuators, Power Electronics, Automation of Process Plants	e.g.: Test and Verfication, Signals and Systems, RF Technology

7. Semester (full-time)

e. g.: Switchgear Technology, Electrical Drives, Power Plant and Grid Technology e. g.: Process Measurement, Mechatronic System Design, System Identification e. g.: Mobile Radio, Business Management/Engineering Law, Semiconductor Technology and Microelectronics

8. Semester (full-time)

Practical Study Period, Bachelor Thesis