

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)



"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; I can't imagine having had a similar experience at a much larger university."

James Hollis (USA)
7th semester
Vehicle Mechatronics

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
Prof. Dr.-Ing. Tim Baldauf
E-Mail: tim.baldauf@htw-dresden.de
Phone: +49 (0)351 462 2035
www.htw-dresden.de/elektrotechnik

Student advisory service
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Phone: +49 (0)351 462 2015
www.htw-dresden.de/international



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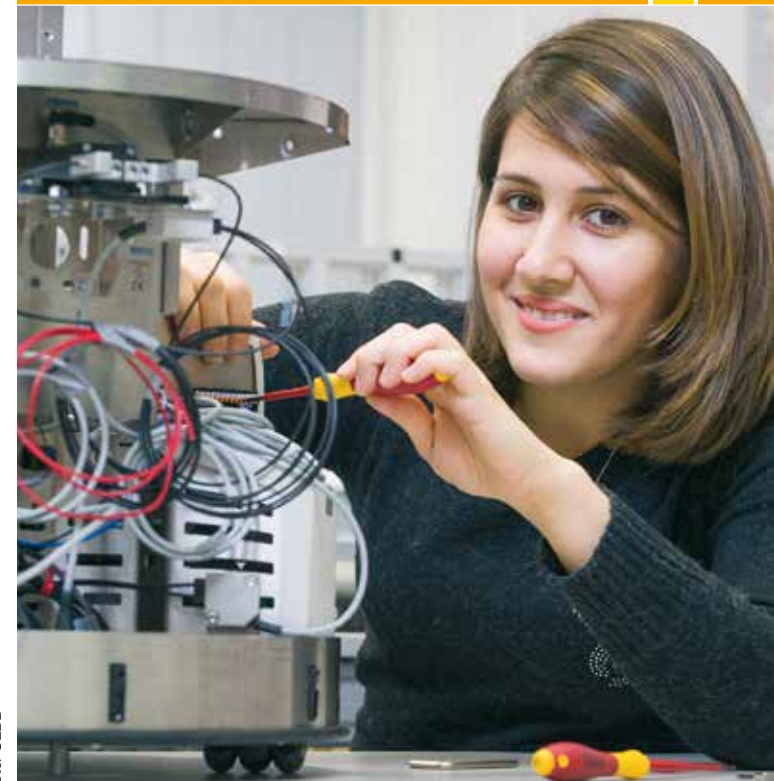


Hochschule für Technik und
Wirtschaft Dresden
University of Applied Sciences

HTW

ELECTRICAL ENGINEERING/ ELEKTROTECHNIK

BACHELOR OF ENGINEERING



**ACHIEVE MORE PRACTICALLY
PRAKTISCH MEHR ERREICHEN**

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.



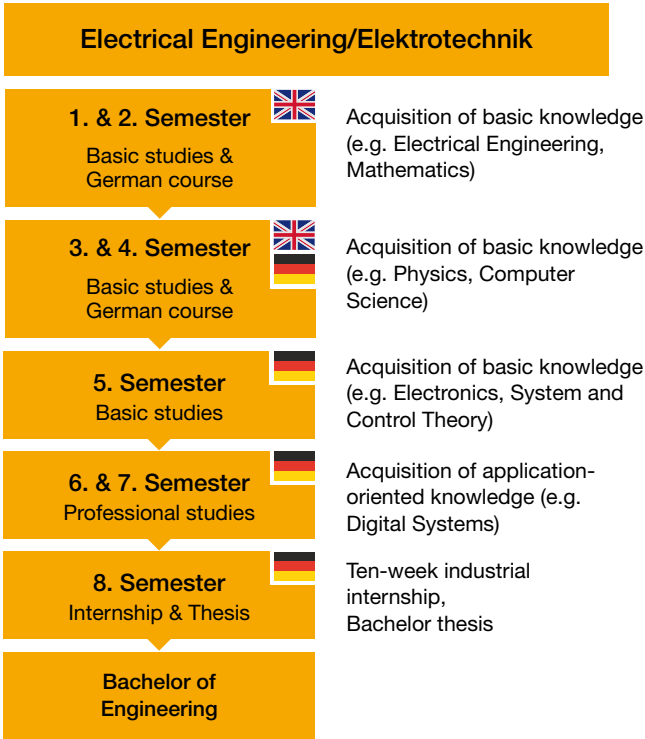
Short profile

Degree:	Bachelor of Engineering (B.Eng.)
Teaching Language:	1 st - 2 nd semester English 3 rd - 4 th semester English and German 5 th - 8 th 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.



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		
Elektronics		
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 and Drives	Automation and Mechatronics	Information and Electronics
e. g.: High Voltage Technology, Power Electronics, Electrical Safety/EMC	e. g.: Actuators, Power Electronics, Automation of Process Plants	e. g.: Test and Verification, 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		