

## Career prospects

- // Electrical power generation and supply
- // Telecommunications and information technology
- // Transport and drive technology
- // Computer and medical technology

## Master's programme at HTW Dresden

- // Master Elektrotechnik/Electrical Engineering  
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: **15<sup>th</sup> June**  
More information about the application process at [www.uni-assist.de](http://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](http://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. Thomas Schuhmann  
E-Mail: [fachberatung-et@htw-dresden.de](mailto:fachberatung-et@htw-dresden.de)  
Phone: +49 (0)351 462 2437  
[www.htw-dresden.de/elektrotechnik](http://www.htw-dresden.de/elektrotechnik)

### Student advisory service

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

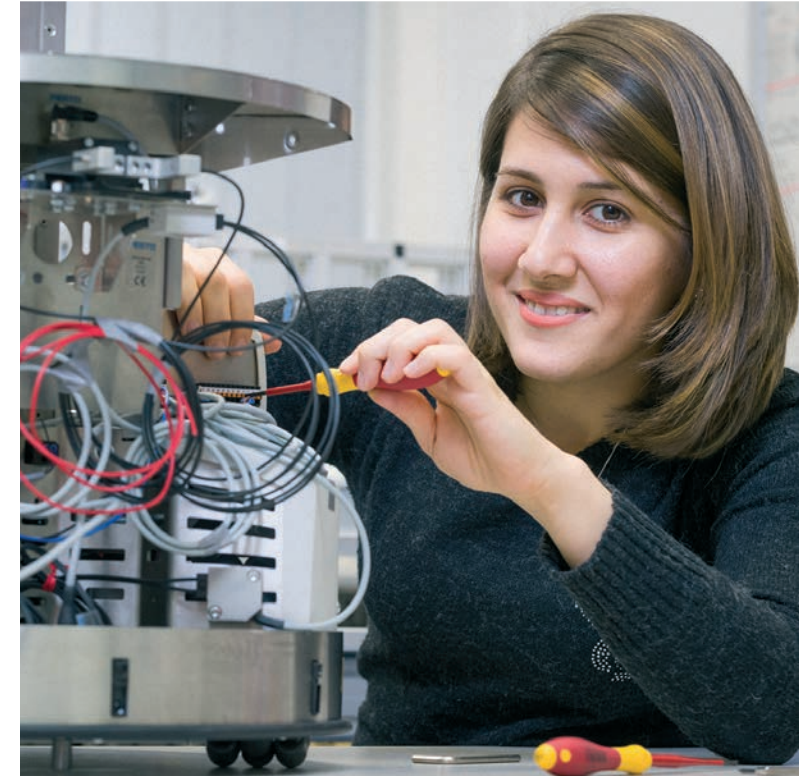


Hochschule für Technik und Wirtschaft Dresden  
University of Applied Sciences  
Friedrich-List-Platz 1  
01069 Dresden  
Germany

[www.htw-dresden.de](http://www.htw-dresden.de)  
[www.facebook.com/htwdresden](https://www.facebook.com/htwdresden)

## ELECTRICAL ENGINEERING/ ELEKTROTECHNIK

BACHELOR OF ENGINEERING

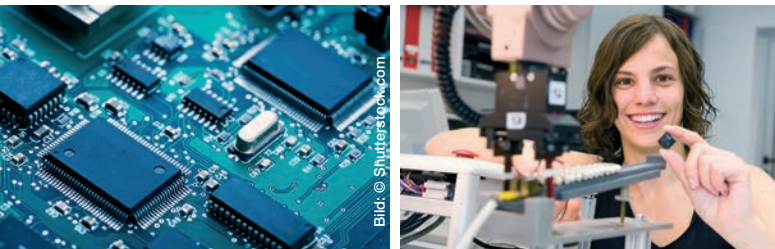


PRAKTISCH MEHR ERREICHEN  
ACHIEVE MORE PRACTICALLY

## 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.



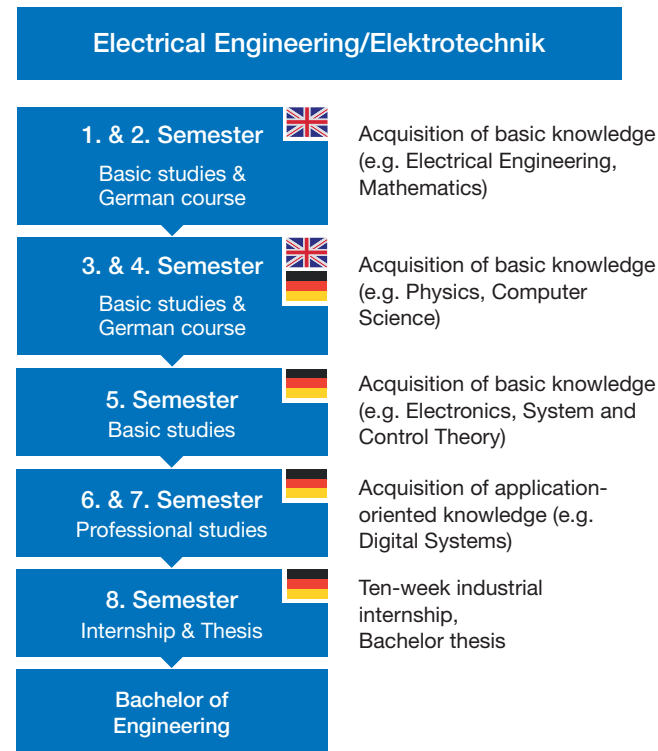
### Short profile

Degree:	Bachelor of Engineering (B.Eng.)
Language of instruction:	1. - 2. semester English 3. - 4. semester English and German 5. - 8. 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.



## Curriculum

<b>1. Semester</b>
Electrical Engineering Fundamentals 1
Topics of Electrical Engineering
Mathematics 1
<b>2. Semester</b>
Electrical Engineering Fundamentals 2
Computer Science 1
Mathematics 2
<b>3. Semester</b>
Gerätekonstruktion/Werkstofftechnik (Construction/Materials)
Computer Science 2
Technische Physik (Technical Physics)
<b>4. Semester</b>
Elektronikkonstruktion (Electronics Construction)
Elektronik 1 (Electronic Engineering 1)
Orientierungsprojekt (Orientation Project)
<b>5. Semester (selection of modules)</b>
Elektronik 2 (Electronic Engineering 2)
Systemtheorie/Regelungstechnik (Systems Theory/Control)
Messtechnik (Measurement Technology)
<b>6. Semester (selection of modules)</b>
Digitale Systeme (Digital Systems)
Leistungselektronik (Power Electronics)
Mikroprozessortechnik (Microprocessor Technology)
<b>7. Semester (selection of modules)</b>
Elektroenergieversorgung (Electric Power Supply)
Hochfrequenztechnik (RF Technology)
Betriebswirtschaft/Ingenieurrecht (Business Management/Law)
<b>8. Semester</b>
Praktikum (Internship) & Bachelorarbeit (Bachelor thesis)