



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Electrical Engineering and Information Technology

Otto von Guericke University Magdeburg • Magdeburg



Overview

Degree	Master of Science in Electrical Engineering
Teaching language	<ul style="list-style-type: none">English
Languages	The courses are taught only in English.
Full-time / part-time	<ul style="list-style-type: none">full-time
Programme duration	4 semesters
Beginning	Winter semester
Additional information on beginning, duration and mode of study	The course is designed as a face-to-face course and can be supplemented with online elements.
Application deadline	15 July (international applicants)
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	The Electrical Engineering and Information Technology Master's programme is a four-semester, research-oriented course divided into compulsory modules, compulsory elective modules and the Master's thesis. The theoretical knowledge is taught at a high level with innovative teaching methods. Students can apply this knowledge in small exercise groups and gain practical experience in laboratories. Soft skills are learned in a seminar on scientific working, writing and presenting. The optional specialisation courses are designed to provide students with knowledge, insight and skills pertaining to sophisticated technologies according to the main research areas of the Department of Electrical Engineering and Information Technology. These research areas are:

- Automation Systems
- Information and Communication Technology
- Power and Energy

One of the general aims is to provide students with the opportunity to develop their ideas and broaden their professional horizons. We believe that our students are equipped with the necessary skills, knowledge, and motivation for lifelong learning, allowing them to pursue successful careers in electrical engineering or information technology, whether in academia or industry.

Course Details

Course organisation	<p>In the first semester, compulsory courses are offered, deepening the fundamentals of Electrical Engineering and Information Technology. In the second and third semesters, students specialise in an area and select optional modules from the above-mentioned fields. The modules are taught as lectures and exercises.</p> <p>In addition to theory, most optional courses include laboratories where practical skills are taught. Students will receive training in the areas of Mechatronics, Automation Systems, Electromagnetic Compatibility, Power Electronics, Image Processing and Information Technology in well-equipped laboratories.</p> <p>The Master's thesis should be completed in the fourth semester.</p> <p>Compulsory modules comprise 40 credit points, elective modules comprise 50 credit points and the final Master's thesis comprises 30 credit points.</p>
A Diploma supplement will be issued	Yes
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	Currently, the semester fee is 277.90 EUR. It covers services offered by the "Studentenwerk" (student union) and the student representatives. Enrolled students receive the "Deutschland-Semesterticket" for free use of public transport throughout Germany, along with student discounts in the campus cafeteria, and more.
Costs of living	A minimum of 934 EUR per month must be budgeted for accommodation, cost of living, health insurance, books, and miscellaneous expenses. In comparison with many other towns and cities, the rental prices in Magdeburg are still relatively low. There are no tuition fees for the majority of programmes, and the semester fee already includes the cost of bus and tram travel within Magdeburg. The following link provides a fair picture of the cost of living in Magdeburg: Finance .
Funding opportunities within the university	Yes

Description of the above-mentioned funding opportunities within the university

The university provides a limited number of excellence scholarships. Eligible candidates are students in advanced semesters who clearly show above-average results. Scholarships cannot be awarded to new students.

Requirements / Registration

Academic admission requirements

Admission to the programme requires a qualified BSc degree in Electrical Engineering, Information Technology or a related field.

For additional information, please see:
[General Requirements](#)

Language requirements

Non-native speakers of English must prove a command of English corresponding to at least 80 points in the TOEFL iBT, 6.0 points in IELTS (International English Language Testing System), or Cambridge First Certificate (B2).

Application deadline

15 July (international applicants)

Submit application to

Otto-von-Guericke Universität Magdeburg
c/o uni-assist e.V.
11507 Berlin
Germany

www.uni-assist.de

Services

Possibility of finding part-time employment

It is possible to find a part-time job as a research or student assistant at one of the faculties or in the university administration (maximum: 80 hours per month). Other opportunities are student jobs at different companies, restaurants, and shops. Information on how to find a job can be found on our website: [Career Service](#).

Accommodation

The "Studentenwerk" (student union) in Magdeburg manages the on-campus halls of residence (mostly one- to four-room apartments). Currently, the monthly rent ranges from 178 EUR to 421 EUR per room (approx. 12 to 35 square meters), depending on the size and furnishing. Rooms in the halls of residence are limited in number. The accommodation application can be found on the website of the Studentenwerk.

The Studentenwerk assists all new students in finding adequate accommodation, either on or off campus. Private accommodation is available on the Magdeburg accommodation market. However, fully furnished units are in somewhat short supply.

Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Accompanying programme
- Specialist counselling

— Otto von Guericke University Magdeburg —



Building of the Faculty of Electrical Engineering and Information Technology

© OVGU, Jana Dünnhaupt

Otto von Guericke University Magdeburg (OVGU) was founded in 1993 and is one of Germany's youngest universities. It was formed by a merger of the existing technical university, the teacher training college, and the medical school. The university now comprises nine faculties and about 13,000 students and is becoming increasingly more important as a centre for education and research. It plays an important role in the regional capital of Magdeburg, which is developing into a centre for business, scholarship, and culture. The university is a member of many organisations and committees. It is named after Otto von Guericke (1602-1686), Magdeburg's famous citizen, whose pioneering research into the vacuum brought him renown well beyond Germany's borders. The university aspires to teach and research in the tradition of this great scientist, philosopher, and engineer and to continue with his humanist work.

At the Otto von Guericke University Magdeburg, students can choose from more than 90 degree courses in various areas of study and specialisation. In addition to these, a range of postgraduate courses are offered. There are also many possibilities to combine different subjects across faculties. The conditions for students are ideal, with modern laboratories, experimental workshops, and clinics equipped with high-performance computers and an excellent staff-student ratio. The offer of a sound, thorough education, combining a high level of theoretical expertise with practical experience, makes Magdeburg an attractive choice.

In recent years, research at the university has gone through a decisive change, from applied research to innovative, fundamental research. Among the many areas represented, the neurosciences, immunology, non-linear systems, new materials, processes and products, computational visualistics, social transformation, communication, and culture deserve a special mention. The university hopes to make a significant contribution to economic and social development in Magdeburg and the surrounding area through its research. Equally, disciplines such as humanities, economics, and management, which have been established more recently at the university, have already made their mark on our research profile. Special emphasis is placed on close cooperation between teaching staff and students.

Magdeburg also attracts students because it offers accommodation with either a single bed or twin beds in its halls of residence.

[Take a virtual trip through our international campus!](#)



University location

As the capital of the federal state of Saxony-Anhalt, Magdeburg is the seat of the state parliament and administration. The town is more than 1,200 years old and has about 236,000 inhabitants. Its excellent location on the River Elbe and its proximity to Berlin, Hanover, and Leipzig have proven to be a significant asset to the city. In the 19th century, the town developed into an important industrial and trade centre. Nowadays, another quite distinctive feature of Magdeburg is its considerable research and innovation potential at the university, the Max Planck and Fraunhofer research institutes, and the university of applied sciences, which are all located in close proximity to each

other. Magdeburg offers an extensive park and garden landscape, a rich cultural and sports life, and an ideal atmosphere for being a student. Please visit the website: www.magdeburg.de.

Contact

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🌐 Course website:

<https://www.ovgu.de/en/Study/Study+Programmes/Master/Electrical+Engineering+and+Information+Technology.html>

📘 <http://www.facebook.com/OVGU.Magdeburg>

🐦 <http://www.twitter.com/OVGUpresse>

🌐 <https://www.linkedin.com/school/otto-von-guericke-university-magdeburg/>

📷 http://www.instagram.com/uni_magdeburg

📺 <https://www.youtube.com/channel/UCX7sej01ntgujN3NilAUkUw>

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International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

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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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