

## Overview of the Degree Program

### ✓ Degree

Master of Science (M.Sc.)

### ✓ Regular Program Length

4 semester (full-time program)

### ✓ Credit Points (ECTS)

120 credit points

### ✓ Language of instruction

English

### ✓ Admission requirements

» bachelor's degree in Electrical Engineering and Information Technology or in a related study program with similar curriculum

» necessary minimum requirements:

- ▶ Higher Mathematics: 14 credit points
- ▶ Fundamentals of Electrical Engineering: 19 credit points
- ▶ Digital, Information and System Technology: 17 credit points

These achievements and the final grade are used to determine the place in the ranking list. In special cases, aptitude for the program may be determined by an interview.

» proof of sufficient knowledge of English of at least CEFR B2 level (TOEFL, IELTS, TOEIC, Cambridge Certificate)

Details can be found in the current admission regulations.

### ✓ Limited Capacity

yes

### ✓ Application Deadline

July 15 / January 15 for the 1st semester

## Questions?

If you have **general questions** about the degree program, studying at KIT or the **application process**:

Karin Schmurr, your student advisor at ZSB:  
[karin.schmurr@kit.edu](mailto:karin.schmurr@kit.edu)

If you have **specific questions** about the Fields of Specialization of the degree program:

[www.etit.kit.edu/english/\\_academic\\_advice.php](http://www.etit.kit.edu/english/_academic_advice.php)

Information in this flyer was accurate at the time of printing. Program structure, study plan or deadlines could have changed since then.

Karlsruhe Institute of Technology (KIT)

Zentrale Studienberatung (ZSB)

Student Advisory Services

Engelbert-Arnold-Strasse 2

Building 11.30

76131 Karlsruhe

Phone: +49 721 - 608 44930

Email: [info@zsb.kit.edu](mailto:info@zsb.kit.edu)

[www.zsb.kit.edu](http://www.zsb.kit.edu)

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President Professor Dr. Jan S. Hesthaven

Kaiserstrasse 12

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Electrical Engineering and  
Information Technology

Master of Science

 ZSB

100 % recycling paper with „Der Blaue Engel“ quality seal

The Karlsruhe Institute of Technology (KIT), a fusion of a university and a large-scale research facility, represents one of the leading research and teaching institutions in Europe in natural science and engineering. Students who choose to study here opt for a scientific education that is predominately research-oriented. The wide range of offered subjects provides a high level of freedom of choice and individual specialization options in the master's degree programs. The particularly high qualification standards at KIT are known among employers and thus offer graduates a well-paved road into starting a professional career or continuing with a doctorate.

## Electrical Engineering and Information Technology (M.Sc.)

The master's degree program is characterized by a wide range of electives. In addition to the elective subject, in which you can study very freely according to your own interests, you decide on a field of specialization. You choose this from the following areas:

- » Electrical Power Systems and Electromobility
- » Information and Communication Technology
- » Automation, Robotics, and Systems Engineering
- » Microelectronics, Photonics, and Quantum Technologies

Your studies will be rounded off with interdisciplinary qualifications, which you can use to complete your qualification profile. For example, you can take language courses, practise academic writing or deal with questions arising from social issues. If you wish, you can plan a semester abroad or apply for a double degree program with a foreign partner university. You can also voluntarily complete a professional internship. The master's thesis, in which you work intensively on a research topic of your choice, concludes your studies.

**SCAN ME**  
for additional information



## Career Prospects

After graduation, you will be able to work in a wide range of future-oriented industries and fields of activities. In addition to areas such as energy supply, electrical appliances and electronics, further fields are also opening up, particularly in the areas of communication technology, vehicle and traffic engineering, automation and optical technologies. Fields of activities range from research and development to project management, sales and management tasks. The employment opportunities after the completion of your master's degree are excellent. The KIT Career Service will support you on your career path. With a good grade from KIT, you can also aim for a doctorate and pursue a career in research and teaching. Some students also develop their own product ideas and become self-employed with a start-up project. At KIT, you can get support from the „Gruenderschmiede“ oder the „Pioniergarage“.

## Characteristic Features of the Degree Program at KIT

- » connection to large-scale research projects
- » internationally networked (CLUSTER, CESAER, Eucor)
- » double degree programs in France
- » good networking with research and industry partners all over the world

## What KIT has to offer

- » central campus close to the city forest and right next to the city center
- » 24/7 library offering single and group working places
- » wide range of inexpensive catering options on campus (dining hall, cafeteria, Koeriwerk and Pizzawerk)
- » numerous interdisciplinary offers for personal and professional development
- » study abroad, e.g. Erasmus
- » excellent university sports facilities with a large selection of sports
- » comprehensive cultural offerings such as university orchestra, choirs and theater groups
- » extensive support for career entry and self-employment
- » internationally oriented degree programs and diverse exchange programs
- » modern laboratories and practical teaching methods
- » diverse student initiatives, clubs and opportunities to actively participate in campus life

## Program Structure

1st to 3rd semester		4th semester
<ul style="list-style-type: none"><li>• Fundamentals of your Field of Specialization (24 or 30 CP, according to the chosen Field of Specialization)</li><li>• Focus area (at least 24 CP)</li><li>• Lab course</li><li>• Elective modules (24 CP)</li><li>• Interdisciplinary qualifications (6 CP)</li></ul>		<ul style="list-style-type: none"><li>• Master's thesis (30 CP)</li></ul>