

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

- » a completed bachelor's degree in Computer Science / Informatics or a bachelor's degree in a related field with the same topics
 - » necessary minimum requirements acquired during your bachelor's studies:
 - ▶ mathematics: minimum of 25 credit points
 - ▶ theoretical computer science: 15 credit points
 - ▶ practical computer science: 30 credit points
 - ▶ computer engineering: 8 credit points
 - » if you cannot fulfill the above-mentioned requirements, but at least 3 of the following:
 - ▶ mathematics: 20 credit points
 - ▶ theoretical computer science: 15 credit points
 - ▶ practical computer science: 20 credit points
 - ▶ computer engineering: 6 credit points
- admission can be granted after successful completion of an aptitude interview
- » proof of sufficient knowledge of English of at least B2 level

Details can be found in the current admission regulations.

✓ Limited Capacity

yes

✓ Application Deadline

June 15 / January 15 for the 1st semester

Questions?

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

Dr. Regine Endsuleit, your student advisor at ZSB:
regine.endsuleit@kit.edu

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

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Computer Science
Master of Science

 ZSB



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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.

Computer Science (M.Sc.)

The English-language master's degree program in Computer Science combines a sound and at the same time broad-ranging education with a specialization in two in-depth subjects from the numerous fields of computer science: Theoretical Foundations, Algorithm Engineering, Cryptography and Security, Parallel Computing, Design of Embedded Systems and Computer Architectures, System Architecture, Telematics, Robotics and Automation as well as Anthropomatics and Cognitive Systems. A freely selectable supplementary subject is also part of the degree program - you are able to participate in courses at another KIT department and thus gain insights into possible areas of application and thus possible professional fields. A large number of elective modules, which you can choose from the wide range of courses offered by the KIT Department of Informatics according to your personal interests, ensure a broad-based education. The teaching of social skills and teamwork (as interdisciplinary qualifications) rounds off your studies. The entire degree program follows the principle of giving you the choice of whether you would rather specialize in a certain field or study a broad range of subjects.

Career Prospects

After completing this English master's degree program in Computer Science, you will work flexibly on the international job market. During your master's studies, you will acquire strong analytical skills and a highly structured approach to complex issues. The knowledge you acquire during your studies at KIT will provide you with a broad foundation for working in a wide range of specialist areas and sectors - in industry as well as in the service sector. With a master's degree or doctorate, you will also be in demand in (interdisciplinary) research or on the management floors of international companies. By completing one of the nine profiles on offer, you can additionally underline your specialization and thus become even more attractive to companies in the high-tech sector. You will be in demand for cutting-edge topics such as autonomous driving, artificial intelligence, robotics, IT security, big data and much more. Last but not least, you can turn your creative business idea into reality and set up your own company. Even during your studies.

Characteristic Features of the Degree Program at KIT

- » electives from the German-language master's program Informatics can also be selected
- » supplementary subject modules as a basis for professional application
- » master's thesis possible at another faculty or in cooperation with companies
- » certificates from different study profiles possible
- » integration into the EUCOR university network

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, Koerierwerk 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

SCAN ME
for additional information



Program Structure

1st to 3rd semester			4th semester
• Specialization subject (15 - 73 CP) • Specialization subject 2 (15 - 73 CP)	• Electives (6 - 49 CP) • Complementary subject (9 - 18 CP)	• Interdisciplinary qualifications (2 - 6 CP)	• Master's thesis (30 CP)