



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Information and Communication Engineering

Technical University of Darmstadt • Darmstadt

Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none">English
Languages	In the first year, all lectures are held in English in addition to German language courses. If desired, students can choose courses taught in German from the second year on.
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	The application process starts on 1 March. The process must be started via the programme's website . Applicants must send certified copies of all academic documents to the university's Department of International Affairs by 31 August. The applications are processed as they come in. We recommend to apply early in order to get the admission early.
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>This interdisciplinary study programme is focused on the theoretical basics, models and applications of information transmission and processing. This includes communication techniques and algorithms, as well as methods for their microelectronic integration in hardware/software solutions with application in mobile and multimedia communication, coding, data compression, security, image processing and medical systems. The technical lectures cover the following areas:</p> <ul style="list-style-type: none">• Microelectronics• Electronic Systems Design• Communication Technology• Communication Systems• Computer Science & Media Technology• Information Technology• Device Technology and Circuit Design• Machine Learning• Matrix Analysis and Computations

Course Details

Course organisation The international Master's programme in Information and Communication Engineering (ICE) is a four-semester programme: three semesters with lectures, seminars and projects, and a Master's thesis in the fourth semester.

A Diploma supplement will be issued Yes

International elements

- Language training provided
- Training in intercultural skills

Course-specific, integrated German language courses Yes

Course-specific, integrated English language courses No

Costs / Funding

Tuition fees per semester in EUR None

Semester contribution The registration fee totals about 300 EUR per semester. This includes administrative fees and a student ticket that is valid for short distance public transport in Darmstadt and the state of Hesse.

[Registration fees](#)

Costs of living Estimated living expenses are about 800 EUR to 1,000 EUR per month. Please note that these costs are just a rough estimation and can vary greatly depending on your way of life, your accommodation, etc.

[Costs and budget](#)

Funding opportunities within the university No

Requirements / Registration

Academic admission requirements The international Master's programme in Information and Communication Engineering is a programme of excellence. We expect our students to have a solid background in basic engineering subjects, as well as good foundations in information technology and communications. Our students should be proficient in the following:

- mathematics and statistics
- physics
- foundations of communication technology

- foundations of communication systems
- signal theory
- software engineering
- computer architecture
- electronics and semiconductor devices

A Bachelor's degree (or equivalent) in a related area is mandatory, and the transcripts of the Bachelor's degree must confirm the candidates' solid background in the field of information and communication engineering. Degree programmes in electrical engineering, computer engineering, computer science and communications engineering are known to provide such background, but a Bachelor's degree in one of these majors does not guarantee acceptance to the programme. And the opposite is also true: students with degrees other than those listed above will be considered for acceptance if their transcripts show that they have a solid background in the fields of information and communication engineering. All degree certificates and transcripts are carefully analysed by a committee in order to ascertain whether the candidate has the right background for the programme.

Language requirements	All our candidates are expected to be proficient in the English language. An English proficiency certificate should accompany the application material. We accept the following certificates: TOEFL 570 (paper-based), TOEFL 230 (computer-based), IELTS 6.5, Cambridge CPE level C. In the event that the applicant has a certificate of an English-speaking Bachelor's degree, he/she does not need an additional language test.
Application deadline	The application process starts on 1 March. The process must be started via the programme's website . Applicants must send certified copies of all academic documents to the university's Department of International Affairs by 31 August. The applications are processed as they come in. We recommend to apply early in order to get the admission early.
Submit application to	Online Application TU Darmstadt

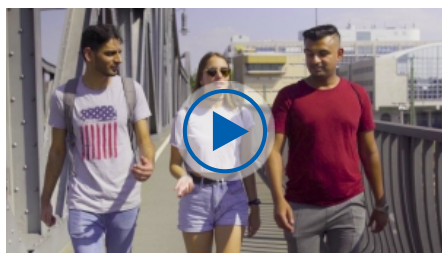
Services

Possibility of finding part-time employment	Starting from the second semester of studies, iCE students can apply for research assistantships at several institutes of the Electrical Engineering and Information Technology Department. Such assistantships are paid on an hourly basis and allow students to become involved in state-of-the-art research and development projects.
Accommodation	<p>TU Darmstadt's International Affairs Department assists international students in their search for accommodation through its Housing Assistance Office. A major science hub, Darmstadt is home to multiple research institutions, three universities, and many high-technology companies, all of which attract people from around the world. A wide variety of accommodations that vary in size, furnishing, and rent are available in Darmstadt and its vicinity. As the university does not own or manage student housing, we support students in finding housing in private and public student dormitories or on the private market. In order to improve your chances in finding the optimal place to live, we recommend that you start your search early. We are happy to assist you in this process. Please make sure to register online on the housing assistance website for international students.</p> <p>Our services include the distribution of an "Accommodation Guide" that includes links to private and public student dormitories, hotels and youth hostels, and a "Housing Guide" that provides tips on how to search for accommodation in Darmstadt.</p>

Support for international students and doctoral candidates

- Welcome event
- Tutors
- Specialist counselling

- Cultural and linguistic preparation



Take it to the next level

The research-oriented Master of Science in Information and Communication Engineering focuses on theoretical principles, models and applications of information transmission and processing. This includes communication techniques and algorithms as well as methods for microelectronic integration in hardware/software solutions for application in mobile and multimedia communication systems, etc.

» more:

<https://www.youtube.com/watch?v=mYnoQdL0njQ>

Technical University of Darmstadt

TU Darmstadt

By choosing **TU Darmstadt**, you are making an investment in your personal and professional future. Committed to academic rigour, cutting-edge research, and interdisciplinary collaboration, **TU Darmstadt** provides its community with an environment that sparks innovation. Our challenging 113 academic programmes allow students to gain international experience at an early stage while preparing them for successful careers in research, education, and the private sector.

In addition to its acclaimed strengths in engineering and technology, **TU Darmstadt** offers prospective students a wide range of study programmes in the natural sciences, social sciences, and the humanities.

Our subject profile:

50% Engineering

35% Natural Sciences

15% Humanities

Founded in 1877, **TU Darmstadt** is one of Germany's leading universities of technology and a member of TU9, a network of the most distinguished German institutes of technology. **TU Darmstadt** is also the coordinator of the European University **UNITE! (University Network for Innovation, Technology and Engineering)** – an alliance of nine leading European universities of technology.

TU Darmstadt has a global reputation for outstanding technology transfer through industrial partnerships, award-winning teaching facilities, and highly ranked research output. Its distinct focus on interdisciplinary cooperation works as a catalyst for innovative approaches to technology in research and everyday life applications.

Committed to an international orientation in teaching and research, as well as the promotion of values like open-mindedness and mutual

respect, TU Darmstadt is home to a diverse community of students and researchers from 120 countries. With more than 500 partner universities around the globe and 40 double degree programmes as well as a strong network of industrial partners in the region, our alumni are sought-after professionals on the local, national, and international level. The QS Graduate Employability Ranking regularly ranks **TU Darmstadt** among the best universities in the world.

At **TU Darmstadt**, it is our priority to support international students in navigating this new environment. The International Student Services (ISS) team is happy to assist you before and during your stay.



University location

General note: **Germany** has one of the world's best health care systems. The country has been coping comparably well with the Coronavirus pandemic.

With around 160,000 inhabitants and well over 40,000 students (roughly 26,000 of whom are at **TU Darmstadt**), the **science city of Darmstadt** offers a high quality of life as well as numerous cultural and tourist attractions in the immediate vicinity. Due to the city's location in the centre of the **dynamic Rhine-Main region** and an excellent public transportation system, **Darmstadt** is well connected to destinations in **Germany** and around Europe.

A metropolitan high-tech centre in the heart of Europe, **Darmstadt** is the birthplace of numerous inventions that have changed our daily lives: from the radio-controlled clock, Plexiglas®, and the first enzyme-based washing agent to the liquid crystals in our mobile phones and notebooks. As the home of Art Nouveau, the internationally renowned European Space Agency, and research facilities like Fraunhofer Institutes, **Darmstadt** offers a creative and innovative milieu for living, studying and conducting research.

- Getting around: All TU students are equipped with a semester ticket ("**Semesterticket**" in German), which provides free access to public transportation and local trains throughout the state of Hesse.
- The **University Sports Centre** at **TU Darmstadt** gives students the opportunity to find a healthy balance between work and personal life. There are also plenty of opportunities to participate in activities at the university stadium or swimming pool. Entry is free of charge to both facilities. During the ongoing pandemic, students have the option of taking online classes.
- Finally, **TUtor International** is a project at **TU Darmstadt** supporting international students culturally, academically and socially. Our aim is to assist international students with their orientation and integration into student life and German society. As a multicultural and international team, we are well aware of the differences in cultural backgrounds, and we are here for you as companions and friends. Connect with us on **Instagram** and **Facebook**.

Contact

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🌐 Course website: <https://www.etit.tu-darmstadt.de/ice/about/index.en.jsp>

📘 <https://www.facebook.com/etitdarmstadt/>

🐦 <https://twitter.com/etit18>

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International Programmes in Germany - Database

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

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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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