DAAD

Deutscher Akademischer Austauschdienst
German Academic Exchange Service

INTERNATIONAL PROGRAMMES

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Master's degree

Control, Computer and Communications Engineering (CCCE)

Technische Hochschule Mittelhessen University of Applied Sciences •
Friedberg (Hessen)

Overview

Degree	Master of Science (MSc)
Teaching language	• English
Languages	All lectures are taught in English (except for the module "German as a Foreign Language").
Full-time / part-time	• full-time
Programme duration	3 semesters
Beginning	Winter semester
Application deadline	**For annual admission in October:** • International applicants (who have completed their Bachelor's degree abroad):**1 April to 15 May** • Graduates from other German state universities:**1 June to 31 July**
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	Yes
Description/content	Our Master of Science (MSc) degree programme in Control, Computer and Communications Engineering provides students with established theoretical and application-oriented knowledge in the areas of Control Engineering, Computer Engineering and Communications Engineering. Application and implementation layers for computer-aided communication, signal transmission and processing, provide students with interdisciplinary competences and skills. The degree programme enables an advanced application-oriented and scientific qualification and prepares for leading positions in industrial companies and research institutions. It can also be the basis for a further scientific qualification such as a PhD. Due to the international character of the study programme, including increased intercultural skills, the graduates are well prepared for work in internationally operating companies. English is the language of instruction.

The special profile and unique feature of the degree programme is the concentration on synergies of different areas of electrical, information and communication technologies with a special focus on the development of safety-critical electrical systems combined in networks. Such systems are subject to special requirements in terms of sensors and actuators, communication technology and protocols, control and signal processing as well as computing performance and safety, taking into account time and energy restrictions.

The degree programme conveys scientifically established concepts, methods and techniques to equip graduates with the skills to develop novel products and services in this interdisciplinary context. Students can choose their own individual focus by working on state-of-the-art research and development projects.

This programme was successfully re-accredited in 2018 (accredited by ASIIN Düsseldorf).

Course Details

Course organisation	Excellent teaching, state-of-the art research and superb student support services are our strengths. We strive to enable students to benefit from our cooperation with industrial and research partners. We encourage and foster both individual and group work. Our programme is open to international as well as to German students. This gives all participants first-hand experience in projects with international teams. **Beginning:** Annually in October **Duration:** Three semesters including Master's thesis & defence **Curriculum:** Total of 90 credit points **Language of instruction:** English During the first semester, the students extend and deepen their knowledge in fundamental areas. All modules in the first semester are compulsory. The second semester emphasises the specialisation of students. A set of (compulsory) elective modules, provides the opportunity to specialise according to personal career goals. The second semester can also be used to complete a voluntary internship of four to twelve weeks. The last semester is devoted to applied research and development work in order to complete the Master's thesis with thesis defence. Throughout the whole programme, communication skills, team-working, intercultural competence and methodological training skills are also developed. » PDF Download
A Diploma supplement will be issued	Yes
International elements	- International guest lecturers - Language training provided - Training in intercultural skills - Study trips
Integrated internships	A voluntary full-time internship of four to twelve weeks may be undertaken in the second semester. We encourage students to combine the internship with the Master's thesis project.
Course-specific, integrated German language courses	Yes
Course-specific, integrated	Yes

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	The semester contribution amounts to approx. 290 EUR per semester. This gives students access to free regional public transportation. It also includes certain discounts such as for the following: university cafeterias, a local outdoor pool, city theatre and a bike rental system. Further details can be found here: https://www.thm.de/site/hochschule/zentrale-bereiche/studiensekretariat.html/.
Costs of living	**Possible costs of living per month:**

- **Rent** (fully furnished room in a student hall of residence or a private shared flat): approx. 300 to 400 EUR per month, a **one-time deposit** for your room is approx. 250 EUR
- **Semester contribution fee** per semester (incl. free public transport): approx. 290 EUR
- **Health insurance:** approx. 110 EUR
- **Groceries:** approx. 170 EUR
- **Study materials**
- **Phone, Internet usage**
- **Sports, culture, leisure**
- **Clothes & hygiene articles**

Overall, you have to provide at least 934 EUR per month (since 1 January 2023) or have proof of a blocked account (11,208 EUR) for the extension of your residence permit (see https://wetteraukreis.de/service#).

Funding opportunities within the university	No

Requirements / Registration

Academic admission requirements	A first academic degree (Bachelor's degree, German "Diplom" or comparable) from an accredited university in one of the following areas:

- General electrical engineering
- Communications and computer networks engineering
- Electrical engineering and information technology
- Technical computer science
- Other suitable study programmes in the areas of electrical engineering and information & communication technology

Average final grade of the Bachelor's degree: (equivalent to) at least 2.5 according to the German grading system (Grade "good" or better according to the THM grading scale) with achievements of at least 210 credit points according to the European Credit Transfer System (ECTS).

Detailed admission requirements and a complete list of application documents can be found on our website (https://go.thm.de/ccce). Please feel free to contact the course coordinator at THM in case of further questions.

Language requirements	**English language:** A good proficiency in English proven by an internationally recognised examination (e.g. TOEFL 85 iBT / the IELTS test - at least 6.5 / or a comparable, internationally recognised test with comparable results)

	German language: International applicants also need a basic knowledge of German (level A1–Common European Framework of Reference for Languages). The successful completion of a German examination at level A1 (Goethe-Institut or related institute) must be certified.
Application deadline	**For annual admission in October:** • International applicants (who have completed their Bachelor's degree abroad):**1 April to 15 May** • Graduates from other German state universities:**1 June to 31 July**
Submit application to	• International applicants who have earned an undergraduate degree abroad, must apply via the uni-assist online portal (https://my.uni-assist.de/). • Graduates from other German state universities, must apply through the THM online portal (https://ecampus.thm.de/). Please feel free to contact the course coordinator at THM for more information about the application process.

Services

Possibility of finding part-time employment	Qualified and motivated students are usually able to find student jobs in companies or at big trade fairs, particularly in the Rhine-Main area. Work at the THM is also a possibility, e.g. as tutors in a lab or as assistants in an office. With a student visa, it is possible to work 120 full days/year without an additional work permit. Since our programme is fast-paced, it is recommended to focus on studying in the first year.
Accommodation	Accommodation is mainly available through the organisation "Studentenwerk Giessen". It offers furnished rooms in residence halls for students. All applicants who apply early, are guaranteed a room! To apply for a room, please contact the course coordinator at THM. Students can also search for accommodation in a private shared flat. Please feel free to ask for support in this matter.
Support for international students and doctoral candidates	• Welcome event • Buddy programme • Tutors • Specialist counselling • Cultural and linguistic preparation • Visa matters • Help with finding accommodation • Support with registration procedures

Contact

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