DAAD   Deutscher Akademischer Austauschdienst
German Academic Exchange Service

INTERNATIONAL PROGRAMMES

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Master's degree

MSc Applied Computer Science

Deggendorf Institute of Technology • Deggendorf

Overview

Degree	Master of Science (MSc)
Course location	Deggendorf
Teaching language	• English
Languages	Our Master of Applied Computer Science programme can be studied entirely in English. However, students wishing to complete the course only in English will be limited in their choice of compulsory electives.
Programme duration	3 semesters
Beginning	Winter and summer semester
Application deadline	15 April to 15 May for October entries (winter semester) 1 October to 1 November for March entries (summer semester)
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	Yes
Description/content	The Master's in Applied Computer Science programme teaches students advanced theoretical and practical knowledge in the areas of computer science and electronics, which form the basis for developing complex embedded systems. In addition, IT security plays an essential role in the programme and is bolstered by our very own cybersecurity institute. From the first semester onward, our students not only gain theoretical expertise but also acquire hands-on, application-oriented training. Our 20+ in-house laboratories, our additional tech campuses, our partnerships with private industries, and our involvement in a variety of research projects allow our students ample opportunities and choices to work with real and current challenges in the design, testing, research, and development of embedded systems while paying

attention to increasingly important security aspects.

Students are not only able to work on real issues, but many of our courses also centre around project work, giving students the opportunity to tinker with ideas with the constructive support of our dedicated professors. Thinking outside the box is encouraged!

Current information	**Rankings**
	WURI (World University Rankings for Innovation) – Ranking 2023:
	• Number worldwide in the category ''Entrepreneurial Spirit'' • Number 16 worldwide in the overall ranking of the most innovative universities

Course Details

Course organisation	Three semesters:

Semesters one and two: theory and practical seminars

Semester three: thesis

All courses are credited with ECTS credit points (European Credit Transfer System).
After having successfully completed the programme, students will be awarded the academic degree Master of Science (MSc).
The MSc degree formally entitles students to pursue doctoral studies.

First semester:

- Theoretical Computer Science
- Practical Computer Science
- Selected Topics of Embedded Software Development 1
- FPGA Programming
- Foreign Language 1

Second semester:

- Special Mathematical Methods
- Foreign Language 2

Five elective modules with 4 "SWS" ("Semesterwochenstunden" = weekly hours/semester) and 5 ECTS each from the following range from the Master's degree in Electrical Engineering*

- Selected Chapters of Micro- and Nanoelectronics
- High-Frequency and Radio Technology Systems
- Special Components and Circuits
- Signals and Systems of Communications Engineering
- Selected Topics in Contactless Sensor Technology
- Automotive and Industrial Electric Drive Systems
- Regenerative Energies

and from the Master's Degree Media Technology*

- 3D Computer Animation
- "Computervision"
- Industrial Image Processing
- Information Security
- Application Design
- Multimedia Content and Streaming

Third semester:

- Selected Topics of Embedded Software Development 2
- Master's thesis
- Master's colloquium

*The lecture content of the modules can be taken from the module manuals of the Master's programmes in Electrical Engineering and Information Technology or Media Technology.

A Diploma supplement will be issued	Yes
International elements	• Integrated/optional study abroad unit(s)
Integrated/optional study abroad unit(s)	Students have the option of studying for one semester at the University of West Bohemia in Plzen/Pilsen.
Course-specific, integrated German language courses	Yes
Course-specific, integrated English language courses	Yes

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	82 EUR student union fee per semester In addition to this, administration and support fees will be charged to international applicants who are not from the EU or EEA starting with the application period for the winter semester 2025/2026. You can find the details here: information for international applicants and students
Costs of living	Approx. 760 EUR per month Click the following link to find a financial overview for students who are living and studying here: monthly expenses.
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	If you are an enrolled DIT student, there are several opportunities to partially finance your studies through a scholarship. Detailed information about funding opportunities is published here: https://th-deg.de/en/study-with-us/funding.

Requirements / Registration

Academic admission requirements	• Bachelor's degree in computer science or a similar field • Admission test
Language requirements	Please find the language requirements for this degree course here: https://www.th-deg.de/en/apply#language-requirements.
Application deadline	15 April to 15 May for October entries (winter semester) 1 October to 1 November for March entries (summer semester)
Submit application to	Please apply directly to Deggendorf Institute of Technology via our application portal. All required documents must be uploaded on the application portal. It is not necessary to send in hard copies by postal mail. Please find more details regarding our application process here: https://www.th-deg.de/en/apply#international

Services

Possibility of finding part-time employment	There are various job opportunities in and around Deggendorf.
Accommodation	A supportive environment is vital for students to feel comfortable and do well in their studies. Therefore, we go to great efforts to support our students on personal, social and academic levels. The International Office assists international students with all matters regarding accommodation. There are several dormitories and many flats available in Deggendorf. View our flat rental website for private accommodation and get directly into contact with landlords: https://pmit-ext.th-deg.de/wb/search. For further information, please contact: accommodation-dit@th-deg.de.
Career advisory service	Career service workshops and seminars are held throughout the year to help students with their job applications and interview techniques. We provide the following: • CV checks • Workshops and seminars for job preparation • University job fair Furthermore, we offer the Job Rock-It programme, especially designed for international degree-seeking students. In this programme, a clever combination of seminars, workshops and lectures provides a basic understanding of the German economy and thus enables easy access to the German labour market. This programme can help students with their final theses, and it can lead to internships or even permanent positions after graduation.
Support for international students and doctoral candidates	• Welcome event • Buddy programme • Tutors • Cultural and linguistic preparation • Accompanying programme

- Visa matters
- Pick-up service

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Ajay Raghunath
MSc Applied Computer Science

The choice to study at DIT has been one of the best decisions of my life. The amount of help that the professors provide and the sheer amount of support the university gives you to succeed in your studies and future career is unparalleled. It is very heartening to see such diversity, both in the nationalities represented by the students here and in the courses that are offered by the university. Studying at DIT is an international experience, and it has been an amazing and unique journey for me.

Our Partners

Faculties and Fields of Study

Are you interested in environmentalism, psychology, physiotherapy or robots? We offer all this and more at the Deggendorf Institute of Technology (DIT). Watch our video to learn more about our faculties and fields of study at DIT.

❱❱ more: https://www.youtube.com/watch?v=qCZobPOsD8A

Deggendorf Institute of Technology

Deggendorf Institute of Technology

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We are a multi-award-winning university of applied sciences founded in 1994 and located in stunning Bavaria. Ranked as one of the best universities of applied sciences in Germany, we strive for academic excellence and are committed to producing global graduates with international degrees at multiple levels. The total student population of more than 8,700 includes 45% international students from all over the globe. The language of instruction is either English or German, depending on the degree programme. Study groups rarely include more than 50 students to ensure not only a personal atmosphere but also individual support for students to excel. All full-time degree programmes are free from tuition fees.

Explore our fields of study!

Let us inspire you:

- See the advantages of studying at DIT.
- Read through the International Prospectus.

Intensive support:

A supportive environment is vital for students to feel comfortable and do well in their studies. We go to great efforts to support our students on personal, social and academic levels. International students who wish to experience the Bavarian lifestyle in a family can join the "Host Family Programme". "International Tutors" provide social support for international students, while "Study Buddies" help students to understand challenging lecture content. The International Office supports with accommodation, visas, health insurance, scholarships, etc. in addition to organising an orientation week and intercultural training for all incoming internationals.

- Find out more about student support.

International experience:

Our 216 partner universities worldwide provide enrolled students with opportunities to gain experience and earn credits towards their degrees through foreign exchange semesters, or in some cases, through double-degree studies abroad.

Practical experience:

All undergraduate studies include a compulsory internship, giving students the opportunity to practice their hands-on skills. Postgraduate students have the opportunity to work on practical research and development projects on our own technology campuses. We cooperate with more than 500 companies, including global players such as BMW, MAN, Continental and Siemens, where students can gain invaluable work experience. The university's career service organises a range of practical workshops and seminars to prepare students for the job market, meaning our graduates are particularly successful in the job market; 87% enter into permanent employment directly after graduation.

Student lifestyle:

We consider a good lifestyle to be an important factor for the well-being of our students. They are supported with many facilities, such as a range of student clubs, an extensive sports programme, a big band, a campus cinema, an international week including an international food fair, and social activities or day trips organised by the Erasmus Student Network. Our annual campus open day and summer open-air music festival are firm favourites among our staff and student community.

![DIT Deggendorf Institute of Technology logo]

📍 University location

Our three teaching campuses are located in Bavaria, southern Germany, close to the city of Munich, the Austrian border and the Alps. Our main flagship campus is located in charming Deggendorf, and it is the base for most students. The European Rottal-Inn Campus (ECRI) is a dynamic and multicultural study environment where all classes are exclusively in English. The Cham Campus is a cosy international hub for AI and mechatronic students.

- View the campuses

Deggendorf Campus:

The Deggendorf Campus is our largest campus, and it has recently undergone a vast extension to accommodate the expanding university community. It has a modern, central courtyard with a hovering deck over water where staff and students relax while having lunch, socialising, revising or just lounging. All lecture rooms, science labs, facilities and service centres are based on and around campus, creating an excellent studying environment.

The beautiful town of Deggendorf has a population of 40,000 and is located on the banks of the Danube river at the foot of the Bavarian Forest. Munich International Airport is one hour's drive away and can easily be accessed by public transport. Our students enjoy vibrant social lives, as Deggendorf has plenty to offer: restaurants, cafés and pubs, plus many cultural festivals and events. It has an excellent network of bike trails, leisure cruise ships on the river and a surrounding hilly landscape that provides a stunning natural backdrop to enjoy countless recreational activities.

Newly built, self-contained student apartment blocks are within close walking or biking proximity to campus, the town centre and all local amenities.

European Rottal-Inn Campus:

At the European Rottal-Inn Campus, all Bachelor's and Master's degree programmes are conducted exclusively in English, creating a dynamic study environment with a diverse and international student community.

The campus is nestled in the town of Pfarrkirchen among rolling, picturesque hills between the Danube and Inn rivers, close to the Austrian border. Pfarrkirchen has become culturally renowned in the area due to its exceptional art exhibitions, museum nights, festivals and events throughout the year. In summer, the old town festival tempts thousands of visitors with its multicultural culinary and musical events. All year round, students enjoy the relaxed Bavarian atmosphere in local cafés, restaurants and markets in the traditional town square. The surrounding beautiful Rott Valley has a range of appealing leisure activities, being well-known for its spas, golf courses, equestrian sports and extensive bike network.

Cham Campus:

The Cham Campus is our newest and most compact campus, with over 600 students, 75% being international students. Its Master's programmes are taught completely in English, and students benefit from intensive personal supervision in small study groups. The campus has a close relationship with regional and national companies in the field of mechatronics, so students learn in both an applied and scientific way.

Only a ten-minute walk from the town centre of Cham, the campus offers a unique atmosphere. Situated directly on the Regen River, students complete their studies in a relaxed and scenic country environment.

There are plenty of leisure facilities within walking distance of the campus: a leisure park with various sports facilities, a swimming pool with access to the river, a cinema, a climbing hall, shops and restaurants.

Contact

Deggendorf Institute of Technology
Faculty of Computer Science

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🌐 Course website: https://www.th-deg.de/ai-m-en

𝐟 https://www.facebook.com/HochschuleDeggendorf/

in https://www.linkedin.com/school/technische-hochschule-deggendorf/

◎ https://www.instagram.com/th_deggendorf/

▶ https://www.youtube.com/user/THDeggendorf

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International Programmes in Germany - Database

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