



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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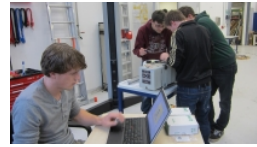
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# Master's degree



## MEng Mechatronics and Cyber-Physical Systems

Deggendorf Institute of Technology • Cham



## Overview

Degree	Master of Engineering (MEng)
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	Course language: English
Programme duration	3 semesters
Beginning	Winter and summer semester
Application deadline	<p>Starting in the winter semester (1 October): If you would like to start your studies in the winter semester, you will study at our main campus in Deggendorf. You will be able to apply from 15 April until 15 July.</p> <p>Starting in the summer semester (15 March): If you would like to start your studies in the summer semester, you will study at our campus in Cham. You will be able to apply from 15 November until 15 January.</p>
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>Many surgical interventions are robot-assisted and even in nursing, more and more technology is being implemented. Automatisations, digitalisations and robotics are developing at a very high rate. Major topics, such as virtual and augmented reality, autonomous driving and ambient assisted living will influence our daily lives enormously.</p> <p>The demand for highly-qualified staff will increase steadily over the next few years. Correspondingly, experts are now sought after more than ever.</p> <p>This consecutive Master's course provides graduates with a Bachelor's degree in Mechatronics or other related fields of study with a comprehensive, additional education on digital production and networking systems.</p>

In the course of three semesters, you will be taught in four technologically-oriented study units:

- Modern Simulation Systems
- Cooperative & Autonomous Systems
- Innovative Human-Machine Interfaces
- Additive Manufacturing

The Case Studies in four of the eight modules aim to strengthen personal and social skills as well as professional skills. Individual scenarios are worked on in small teams. Different approaches come together and are discussed in order to find a practical solution, which prepares you adequately for your future career.

See the course website for

- the study location Cham (summer semesters): <https://www.th-deg.de/mcs-cham-m-en>
- the study location Deggendorf (winter semesters): <https://th-deg.de/mcs-m-en>

## Course Details

### Course organisation

This postgraduate programme consists of three semesters (i.e. 18 months). Owing to the global relevance of the subject area, the programme is instructed in English only and starts in Cham.

#### Semester 1

- Structure and Functions of Cyber-Physical Systems
- Business Models for CPS
- Advanced Robotics
- Autonomous Systems
- Case Study Cooperative and Autonomous Systems
- Advanced Modelling and Simulation
- Case Study Mechatronic System Simulation

#### Semester 2

- Virtual Reality/Augmented Reality
- Mobile and Adaptive HMI
- Case Study VR/AR in System Engineering
- Technologies of Additive Manufacturing
- AM Production Processes
- Case Study Cyber-Physical Production Systems using AM
- Choice of one FWP (mandatory technical elective) from a selection of subjects provided

#### Semester 3

- Principles of Functional Safety
- Design of Safe Systems
- Master's Thesis

A Diploma supplement will be issued

Yes

Course-specific, integrated German language courses

Yes

Course-specific, integrated English language courses

Yes

## Costs / Funding

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Tuition fees per semester in EUR	None
Semester contribution	72 EUR student service fee per semester  * <a href="#">International applicants and students</a>
Costs of living	Approx. 700 EUR per month.  Here you will find a financial overview for students, who are living and studying here <a href="#">monthly expenses</a>
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: <a href="https://th-deg.de/en/study-with-us/funding">https://th-deg.de/en/study-with-us/funding</a>

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## Requirements / Registration

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Academic admission requirements	<ul style="list-style-type: none"><li>• Undergraduate degree or equivalent containing a minimum of 210 ECTS credits from an accredited German or international university</li><li>• Subject area: Mechatronics or other related fields of study</li><li>• Passed <a href="#">aptitude assessment</a></li></ul>
Language requirements	Please find the language requirements for this degree course here: <a href="https://www.th-deg.de/en/apply#language-requirements">https://www.th-deg.de/en/apply#language-requirements</a> .
Application deadline	Starting in the winter semester (1 October): If you would like to start your studies in the winter semester, you will study at our main campus in Deggendorf. You will be able to apply from 15 April until 15 July.  Starting in the summer semester (15 March): If you would like to start your studies in the summer semester, you will study at our campus in Cham. You will be able to apply from 15 November until 15 January.
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: <a href="https://www.th-deg.de/en/apply#international">https://www.th-deg.de/en/apply#international</a>

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# Services

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## Possibility of finding part-time employment

There are various job opportunities in and around Deggendorf/Cham.

## 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.

In Cham many flats are in close proximity to campus. 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](mailto: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, the Master's module contains the seminar series "Career Start into German Technology Companies", 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
- Tutors
- Cultural and linguistic preparation
- Accompanying programme



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## Barbara Tiergarten Master Mechatronic and Cyber-Physical Systems (MEng)

My first impression was quite positive. The courses are in English, so it is easy to communicate. The professors have a lot of knowledge and they are all open to discussion and suggestions. The teachers interact with the students all of the time and we have the opportunity to ask questions freely. At first, I felt a little uncomfortable because the system is quite different from the one in my home country and I was a bit lost, but it didn't take too long to adapt.

## 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



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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 the Bachelor's and Master's level. The total student population of more than 8,500 includes 41% 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 [200 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.



## University location

Our three teaching campuses are located in Bavaria in Southern Germany, close to the city of Munich, the Austrian border and the Alps. Our main flagship campus is located in charming [Deggendorf](#) and is the base for most students. The [European Campus Rottal-Inn](#) 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 mechatronics 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 almost 350 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. It's a great place to live and study!

## Contact

### Deggendorf Institute of Technology

Campus Cham

Badstraße 21  
93413 Cham

✉ [welcome@th-deg.de](mailto:welcome@th-deg.de)  
🌐 Course website: <https://th-deg.de/mcs-cham-m-en>

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

🐦 [https://twitter.com/th\\_deggendorf](https://twitter.com/th_deggendorf)

🌐 <https://www.linkedin.com/school/technische-hochschule-deggendorf/>

📺 <https://www.youtube.com/user/THDeggendorf>

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

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## GATE-Germany

Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://www.gate-germany.de)

## Disclaimer

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