



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



MSc Artificial Intelligence and Data Science

Deggendorf Institute of Technology • Deggendorf



Overview

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| Degree | Master of Science (MSc) |
| In cooperation with | University of South Bohemia |
| Teaching language | <ul style="list-style-type: none">English |
| Languages | All courses are taught 100% in English, with the exception of the compulsory German or Czech language courses. |
| Programme duration | 4 semesters |
| Beginning | Winter and summer semester |
| Application deadline | 1 October to 1 November for March entries (summer semester at DIT) The application for the winter semester at University of South Bohemia takes place in spring: https://wstag.jcu.cz/portal/studium/uchazec/eprihlaska.html?pc_lang=en |
| Tuition fees per semester in EUR | None |
| Combined Master's degree / PhD programme | No |
| Joint degree / double degree programme | Yes |
| Description/content | <p>Just as electricity brought about far-reaching changes over 100 years ago, artificial intelligence (AI) has fundamentally started to change our lives. AI is the next phase of the industrial revolution, and it has established itself firmly in our society. Almost all branches of industry have been affected by the ongoing transformation through its algorithms.</p> <p>The Master of Artificial Intelligence and Data Science programme (MAID) at the Deggendorf Institute of Technology addresses this transformation by providing students with the broad and in-depth skills required of experts working in and developing AI. Moreover, data science forms an integral</p> |

part of this study programme. AI experts need to be able to obtain, process and store enormous amounts of data, which is at the root of AI and development processes.

Unique to Master's programmes in this field, is the integrated internship that students are required to complete and enables them to put theory to practice.

In addition, the MAID study programme serves to strengthen EU goals of cooperative learning, research and teaching. Due to the cross border nature of the study programme, its embeddedness in regional high-tech companies and its international character, students will not only gain expertise and practice in this field but benefit from a diverse student body that will promote intercultural competence and provide a solid foundation for innovation.

Current information

Rankings

WURI (World University Rankings for Innovation) – Ranking 2023:

- Number one worldwide in the category "Entrepreneurial Spirit"
- Number 16 worldwide in the overall ranking of the most innovative universities

Course Details

Course organisation

This postgraduate programme consists of four semesters and includes a compulsory internship. Owing to the global relevance of the subject area, the programme is instructed in English only. Students will be required to take at least one semester (second semester) at the partner university.

Semester one

- Artificial Intelligence and Software Development
- Theoretical Fundamentals of Artificial Intelligence
- Advanced Machine Learning
- Elective 1*
- Elective 2*
- German or Czech

Semester two (University of South Bohemia)

- Information Theory
- Mathematics for Artificial Intelligence and Data Science
- Computational Intelligence
- Feature Engineering for Data Science
- Advanced Data Storage and Analyses
- Parallel Programming and Computing
- German or Czech

Semester three

- Internship
- Elective 3*
- Elective 4*

Semester four

- Advanced Topics in AI
- Master's seminar
- Master's thesis
- State Exam

*All four elective courses must be chosen in consultation with the MAID study coordinator. Elective courses must have relevance for AI and/or data science.

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| A Diploma supplement will be issued | Yes |
| International elements | <ul style="list-style-type: none"> • Integrated/optional study abroad unit(s) |
| Integrated/optional study abroad unit(s) | Students will be required to spend at least one semester at our partner institution, the University of South Bohemia. |
| Integrated internships | Students can complete their internship in the fields of AI or data science at an institution of their choosing, providing all requirements are met. |
| 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 | <p>82 EUR student union fee per semester</p> <p>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</p> |
| Costs of living | <p>In Deggendorf, the cost of living is approximately 760 EUR per month. The semester in Budweis will cost approximately 500 EUR per month.</p> <p>Click the following link to find a financial overview for students who are living and studying here: monthly expenses.</p> |
| Funding opportunities within the university | Yes |
| Description of the above-mentioned funding opportunities within the university | <p>If you are an enrolled DIT student, there are several opportunities to partially finance your studies through a scholarship.</p> <p>Detailed information about funding opportunities is published here: https://th-deg.de/en/study-with-us/funding.</p> |

Requirements / Registration

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| Academic admission requirements | The eligibility requirements are a Bachelor's degree and at least 90 credit points from the field of computer science including 18 credits from the fields of artificial intelligence and/or data science. |
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In addition, an admission test has to be completed successfully.

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| Language requirements | English B2, as attested by a recognised language certificate More information on the language requirements can be found here: https://www.th-deg.de/en/apply#language-requirements . |
| Application deadline | 1 October to 1 November for March entries (summer semester at DIT) The application for the winter semester at University of South Bohemia takes place in spring: https://wstag.jcu.cz/portal/studium/uchazec/eprihlaska.html?pc_lang=en |
| 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

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| Possibility of finding part-time employment | There are various job opportunities in and around Deggendorf. |
| Accommodation | <p>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.</p> <p>The International Office assists international students with all matters regarding accommodation.</p> <p>There are several dormitories and many flats available in Deggendorf.</p> <p>View our flat rental website for private accommodation and get directly into contact with landlords: https://pmit-ext.th-deg.de/wb/search or https://stwno.de/de/wohnen/zimmerboerse</p> <p>For further information, please contact: accommodation-dit@th-deg.de.</p> |
| Career advisory service | <p>Career service workshops and seminars are held throughout the year to help students with their job applications and interview techniques.</p> <p>We provide the following:</p> <ul style="list-style-type: none">• CV checks• Workshops and seminars for job preparation• University job fair. <p>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.</p> |

Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Tutors
- Accompanying programme
- Cultural and linguistic preparation
- Visa matters
- Pick-up service



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Eldhose Poulose Artificial Intelligence and Data Science

I consider my decision to study at DIT one of the most brilliant moves of my life because I consider this university to be one of the hidden gems in Bavaria. I believe that studying at DIT has great potential to change your career profile. Research institutions, technologically advanced laboratories, a wide range of industrial collaborations and the opportunity to practice what you learn makes DIT unique. Finally, the compulsory internship will be a great asset for your future career.

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.

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](#) (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 Campus Rottal-Inn:

At the European Campus Rottal-Inn, 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

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🌐 Course website: <https://th-deg.de/aid-m-en>

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

🐦 https://twitter.com/th_deggendorf

🌐 <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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Disclaimer

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