

## OVERVIEW

### Degree

- Master of Science (M.Sc.) issued jointly by DIT and the University of South Bohemia (USB) in the Czech Republic.

### Duration

- 4 semesters (2 yrs) or 3 semesters if you already have an internship in your bachelor degree

### Start

- Annually in March and September

### Location

- Deggendorf & Ceske Budejovice

### Language of instruction

- English

### Admission requirements

#### Phase 1: Formal Criteria

- Bachelor degree in AI, Data Science, Computer Science or closely related field
- A minimum of 18 ECTS from AI or Data Science courses
- English level B2

Students who meet all the formal requirements will be admitted to the admission test.

#### Phase 2: Admission Test

- Section A: Maths (Calculus, Linear Algebra, Logic, Probability and Statistics)
- Section B: Software Development (Algorithms & Datastructures, Design Patterns, OOP, Programming, UML)
- AI (Computational Intelligence, Neural Networks)
- Data Science (Analytics, Databases, SQL)

## APPLICATION

### Application period

- 15 November - 15 January for start in March  
spring via USB for start in September

### Online application

- In the Primuss Portal at [www.th-deg.de/en/apply](http://www.th-deg.de/en/apply)

### Notice of acceptance or denial

- In the Primuss-Portal at the start of Feb

### Enrolment

- Information available in letter of admission

### Prep courses

- See [www.th-deg.de/prep-courses](http://www.th-deg.de/prep-courses) (no obligation)

### Semester start

- March in DIT
- September in USB

## INFORMATION

about the study program in USB

 [www.maid.education](http://www.maid.education)

## STUDY LOCATION

Deggendorf Institute of Technology  
Dieter-Görlitz-Platz 1  
94469 Deggendorf  
Germany

 [www.th-deg.de/en/deggendorf-campus](http://www.th-deg.de/en/deggendorf-campus)

## CONTACT

Are you interested in studying for this Master in Artificial Intelligence and Data Science and would like to find out more?  
Please direct all enquiries to:

 [welcome@th-deg.de](mailto:welcome@th-deg.de)

 [www.th-deg.de/en/advice](http://www.th-deg.de/en/advice)



Technische Hochschule Deggendorf/  
Deggendorf Institute of Technology  
Dieter-Görlitz-Platz 1  
94469 Deggendorf, Germany  
Tel. +49 (0)991 3615-0  
Fax +49 (0)991 3615-297  
[info@th-deg.de](mailto:info@th-deg.de)  
[www.th-deg.de/en](http://www.th-deg.de/en)

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DEGGENDORF  
INSTITUTE OF  
TECHNOLOGY **DIT**

**MASTER**  
**ARTIFICIAL INTELLIGENCE**  
**AND DATA SCIENCE**



## AI, DATA SCIENCE & OUR WORLD

Just as electricity brought about far-reaching changes over 100 years ago, artificial intelligence (AI) has fundamentally started to change our lives and has been called the next phase of the industrial revolution. Almost all branches of industry have been affected by the ongoing transformation through its algorithms and it has established itself firmly in our society as a whole.

The Master of Artificial Intelligence and Data Science course addresses this transformation by providing you as a student with the broad and in-depth skills required to work with and develop AI. You will be trained how to obtain, process and store enormous amounts of data, which is the root of AI and development processes.

Unique to master programmes in this field is the integrated internship, where you will be able to put theory to practice in a real work environment.

In addition, this course aims to strengthen the EU goals of cooperative learning, research and teaching. Due to the cross-border nature of the course, its embeddedness in regional high-tech companies and its international character, you will not only gain expertise and practice in this sector but also benefit from a diverse and multicultural student community that will promote your intercultural skills and provide a solid foundation for innovative thinking.



## COURSE CONTENT

This course is located in our main flagship campus in Deggendorf, where it is embedded in the faculty of Computer Science.

Semester 1	<i>Semester 1 is based at the Deggendorf Institute of Technology:</i> AI and Software Development, Advanced Machine Learning, Theoretical Fundamentals of AI, Elective I*, Elective II*, German or Czech
↕ Semester 1 and 2 are interchangeable ↕	
Semester 2	<i>Semester 1 is based at the The University of South Bohemia:</i> Information Theory, Maths for AI and Data Science, Computational Intelligence, Distributed Algorithms, Advanced Storages and Analyses, Parallel Programming, German or Czech
Semester 3	Minimum 12 week internship, Elective III, Elective IV
Semester 4	Advanced topics in AI - Deep Learning lab project, Master thesis, Master seminar

Electives I, II plus all elements of semester 3 and 4 are customisable. This means that approx. 40% of the course can be individualised, enabling you to fill knowledge gaps and add a heightened focus on your individual academic interests.

All lectures and exams are conducted in English, therefore fluent English skills are crucial.

## 2 UNIVERSITIES, 1 UNIQUE DEGREE

You will study at two universities for one unique degree at the forefront of European university integration.



Gain direct access to the faculties of two different universities and benefit from the many advantages of studying equally at two top institutions:

- Choose from a larger selection of fields of research
- Receive guidance and support from double the number of teaching and support staff
- Access double the numbers of potential employers
- Learn to navigate two different cultures and to develop your intercultural & language skills

This joint degree programme is a cooperation between:



and



The two university locations:

