

## OVERVIEW

Deggendorf Institute of Technology is a modern and innovative university which strives to make your students' time as productive, creative and exciting as possible.

The Study Location Cham of the DIT is integrated in a leading environment for research and development in mechatronics, automation, robotics and sensor technology.

Within a standard period of 3 semesters, DIT is offering you the possibility to complete a Master of Engineering (M.Eng.) in a promising field in order to subsequently develop your creative skills in the field of mechatronic and cyber-physical systems.

### Degree

- Master of Engineering (M.Eng.)

### Duration

- 3 semesters, third semester online

### Semester start

- Annually in October in Deggendorf
- Annually in March in Cham

### Fees

- € 62 student services fee per semester

### Course Language

- English

## APPLICATION

### Application period

- 15 April - 15 July for October entries in Deggendorf
- 15 November - 15 January for March entries in Cham

### Online application

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

### Deadline for submitting documents

- certified copy of bachelor certificate by mid-August (Deggendorf) / mid-February (Cham)

### Notice of denial or acceptance

- in the Primuss portal by mid August (Deggendorf) / mid-February (Cham)

### Enrolment

- Via regular mail by mid-August (Deggendorf) / mid-February (Cham)

### Deferred admission

- will not be granted

### Prep courses

- In September: [www.th-deg.de/prep-courses](http://www.th-deg.de/prep-courses)

## STUDY LOCATION

This degree programme is taught at two campuses.

In October it starts in Deggendorf, in March it starts in Cham.

The study location is binding for the entire study period.

### Campus Deggendorf

Dieter-Görlitz-Platz 1  
94469 Deggendorf  
Germany

### Campus Cham

Badstraße 21  
93413 Cham  
Germany



## CONTACT

You are interested in the Master course Mechatronic and Cyber-Physical Systems and would like to know more about it?

### Head of MMC Cham

Prof. Dr.-Ing. Peter Firsching

✉ [peter.firsching@th-deg.de](mailto:peter.firsching@th-deg.de)

☎ +49 (0)991 3615-525

### Head of MMD Deggendorf

Prof. Dr.-Ing. Stefan Scherbarth

✉ [stefan.scherbarth@th-deg.de](mailto:stefan.scherbarth@th-deg.de)

☎ +49 (0)991 3615-337

### General enquiries about studying at DIT in Cham

✉ [studium-cham@th-deg.de](mailto:studium-cham@th-deg.de)

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

### General enquiries about studying at DIT in Deggendorf

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

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

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BEST PERFORMANCE PRIZE



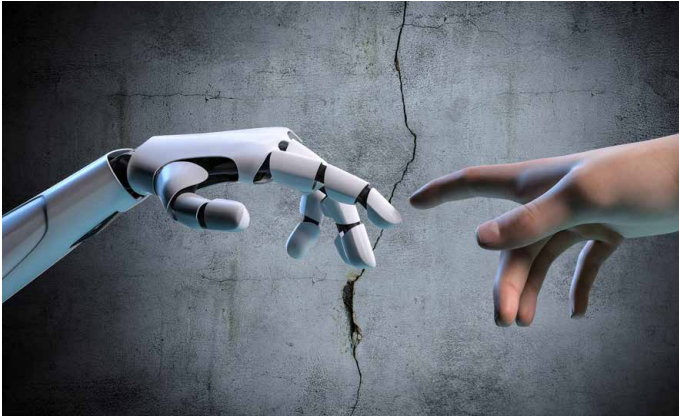
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## DEGREE DESCRIPTION

The consecutive master course enables graduates with a bachelor's degree in Mechatronics and other related fields of study a comprehensive additional education on digital production and networking systems.

In four technology-oriented study parts, over three semesters, you will be taught about modern simulation systems, cooperative and autonomous systems, innovative human-machine interfaces as well as additive manufacturing processes.



The Case Studies in four of the eight modules 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 very well for your future career.

This course is taught in English, due to its global relevance, so that not only your technological expertise will be improved. As a Master of Engineering, you also significantly improve your career opportunities on the international job market.



## COURSE CONTENT

1. Sem.	Structure and Functions of Cyber-Physical Systems, Business Models for CPS, Advanced Robotics, Autonomous Systems, Case Study Cooperative and autonomous systems, Advanced Modeling and Simulation, Case Study Mechatronic System Simulation
2. Sem.	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, course-related elective subject (FWP) e.g. Software Engineering, CPS in Logistic Systems, Change Management
3. Sem. (online)	Principles of Functional Safety, Design of Safe Systems

## YOU SHAPE THE FUTURE

Intelligent, self-regulating, sensor-based and networking production systems are to enable "smart factories" in the near future. Apart from this, industrial Internet of things (IIOT), robots, on the other end of the spectrum have even become relevant in social areas.

Many surgical interventions are robot-assisted and even in nursing, more and more technology is being implemented. Automatization, digitalisation and robotics are developing at a very high rate. The big topics, such as virtual and augmented reality, autonomous driving and ambient assisted living will have an enormous impact on our daily lives.

The demand for highly-qualified staff will increase steadily over the next few years and experts are sought after more than ever.

You and your creative ideas can be the answer to those questions. You can be the person in demand, who is sought after in a more and more digitalised world. With a master's in Mechatronic and Cyber-Physical Systems, you meet the needs of prospective jobs and can shape the future.

