

OVERVIEW

Degree

- Master of Engineering (M.Eng.)

Duration

- 3 semesters

Semester start

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

Requirements

- Successful completion of a bachelor's degree in Mechatronics or a closely related field
- A2 language level must be completed by the end of the studies, either by passing the German course A2 / part 3+4 at DIT or proven by a certificate recognised by DIT.
- A GATE or GRE (general) certificate is recommended to be submitted if your undergraduate degree has been completed in a non-member state of the Lisbon convention to further substantiate your eligibility for this study programme.
- Aptitude assessment is required

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: Primuss portal at 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

STUDY LOCATION

The student intake of the winter semesters start their studies in Deggendorf while the student intake of the summer semesters start their studies in Cham.

Campus Deggendorf
Dieter-Görlitz-Platz 1
94469 Deggendorf
Germany

Campus Cham
Badstraße 21
93413 Cham
Germany



CONTACT

Are you interested in studying the master's programme "Mechatronic and Cyber-Physical Systems" and would like to find out more?

Head of MMC Cham

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☎ +49 (0)991 3615-525

Head of MMD Deggendorf

Prof. Dr.-Ing. Stefan Scherbarth

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☎ +49 (0)991 3615-337

General enquiries about studying at DIT in Cham

✉ studium-cham@th-deg.de

🌐 www.th-deg.de/en/campus-cham

General enquiries about studying at DIT in Deggendorf

✉ welcome@th-deg.de

🌐 www.th-deg.de/io-en

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BEST PERFORMANCE PRIZE



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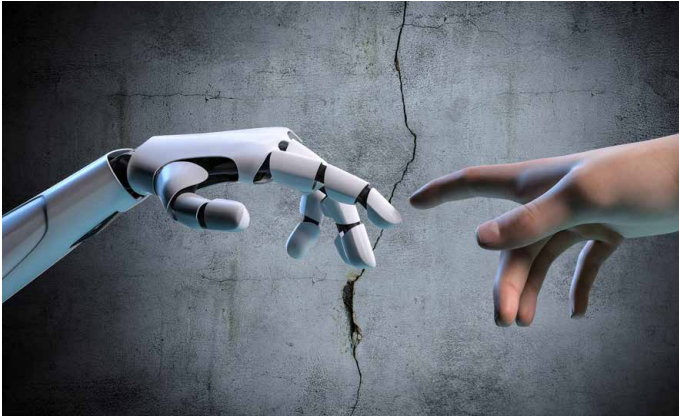
MASTER MECHATRONIC AND CYBER-PHYSICAL SYSTEMS



DEGREE DESCRIPTION

This consecutive master's programme 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 Modelling 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, Compulsory Technical Elective (FWP), e.g. Integrated Production Systems, Python, ROS etc., CPS in Logistic Systems, Change Management
3. Sem.	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.

