

Your Master plan:
Mechatronic and Cyber-Physical
Systems in Deggendorf

YOUR TICKET TO ONE OF THE FASTEST DEVELOPING TECHNICAL SECTORS!

The global Cyber-Physical Systems market was estimated at **USD 118.20 billion in 2024** with **13.7% annual growth rate** until 2030

Source: Grand View Research - Cyber-physical Systems Market (2025 - 2030)

Industrial
applications



Farming
assistant



Consumer
products

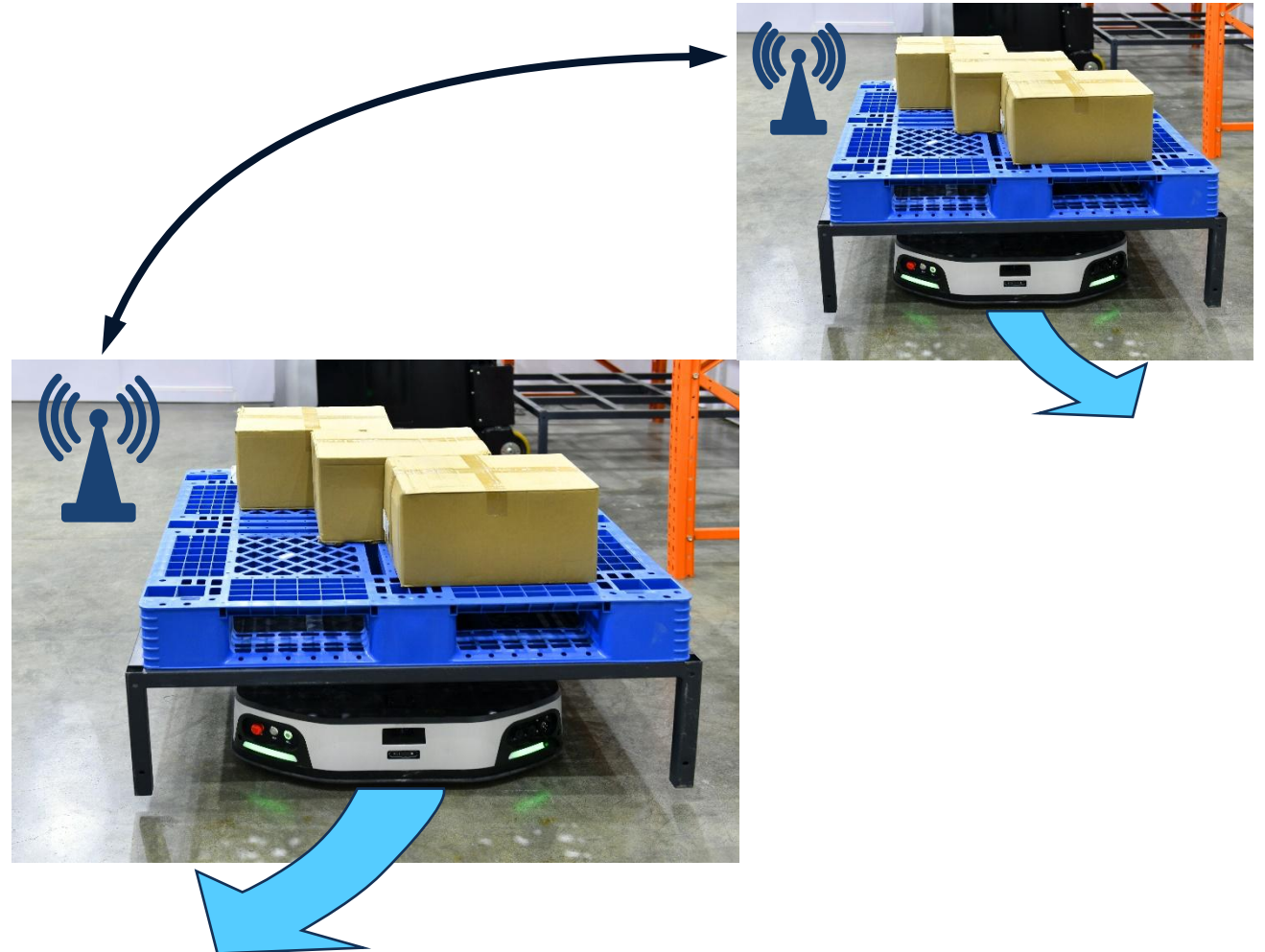


Medical
technology



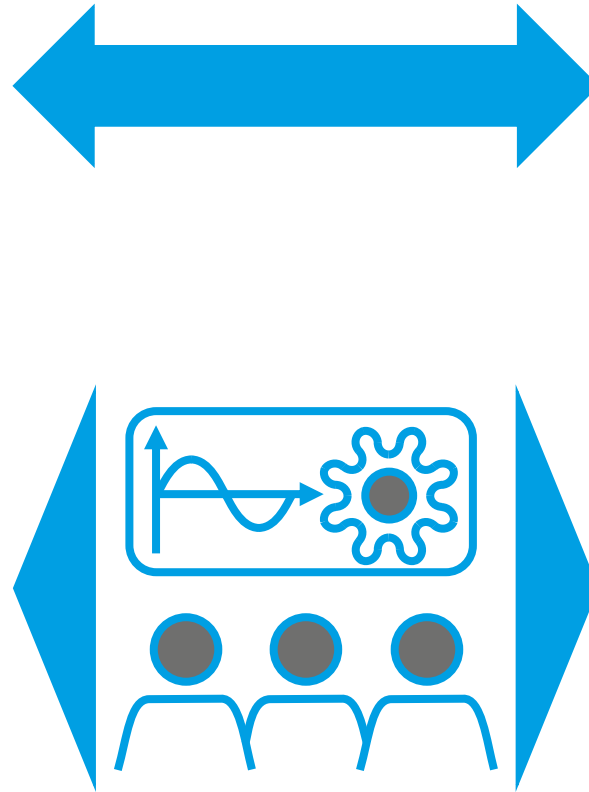
WHAT'S A CYBER-PHYSICAL SYSTEM?

- *Cyber:*
Networks, WLAN
modelling
- *Physical:*
Interacting with the
physical world,
Sensors & Actuators
- *System:*
Control engineering,
systems engineering



KEY TOPICS

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- *Physical:*
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PROGRAMME CONTENTS

- Cyber-physical systems
- VR/AR
- Innovative HMI
- Robotics
- Autonomous systems
- Additive manufacturing
- Modelling & simulation
- Functional safety

+ 4 Case Studies:

Practical implementation with
in total approx. 650h workload

VOICES OF DIT - HANDS ON LEARNING IS IMPORTANT!



Theory is important, but practical application is what can change the world. That's why my favorite part of the Master's programme are the Case Studies! The projects are challenging, but they have truly helped me grow — both as a person and as an engineer.

Saikumar Konakanchi, 2025

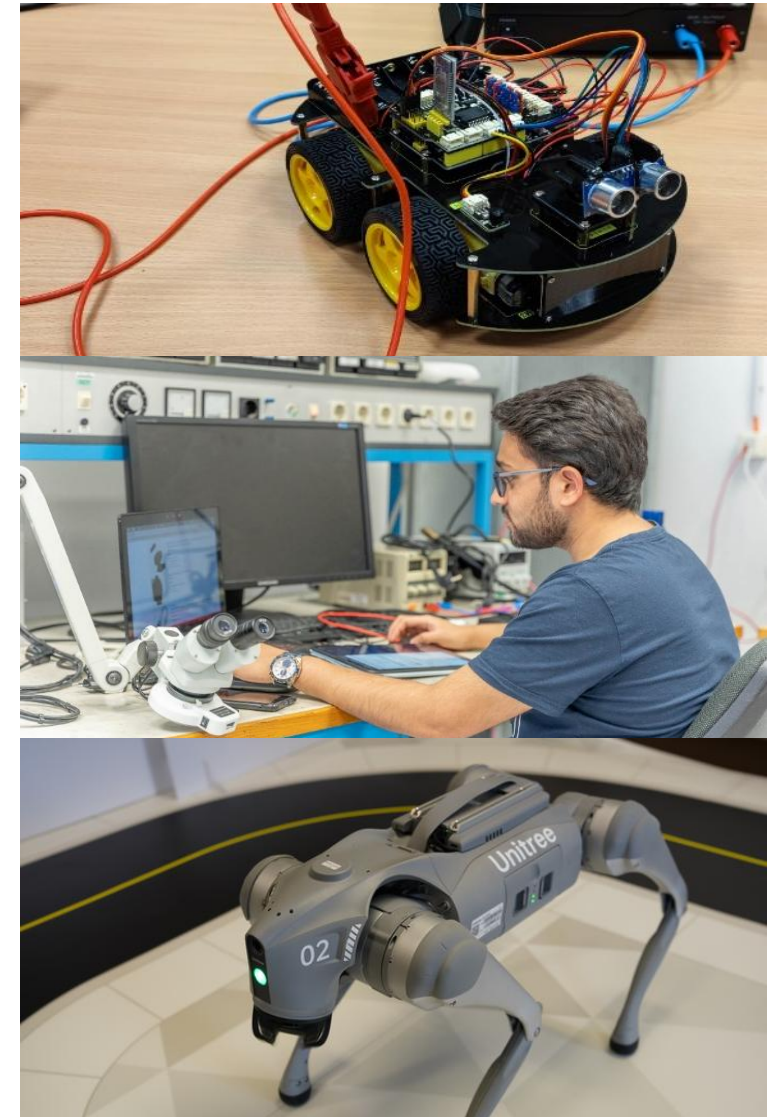


Autonomous Systems is an extremely dynamic field. I have learned a lot during this course, and the combination of theoretical research and practical implementation is a unique experience!

Nitin Mediseti, 2025

HIGHLIGHTS

- **CHE University Ranking 2021/2022:** The Faculty of Mechanical Engineering and Mechatronics is in the top group in the area of "Practical Relevance".
- The study programme places a great emphasis on **practical application**. Using numerous case studies, students learn to translate theoretical concepts into real-world solutions (650 hours in total).
- **Teaching Labs:** IT, Sensorics, Electrical Engineering, Embedded/IoT, Intelligent Robotics



COURSE OF STUDY

- Duration: 3 semesters
- Start: Winter semester (01. October)
- Application period: 15 Apr. – 15 June (for winter semester)
- Teaching language: English
- Location: Campus Deggendorf
- Applied & interactive teaching style
- Personal support, small groups and close ties with professors

ENTRY REQUIREMENTS

- **Bachelor degree (at least 210 ECTS credits)**

in the fields of industrial engineering, technical physics, mechanical engineering, electrical eng., mechatronics or a related degree programme.

- **Admission test** (online or on-site)

based on subject areas relevant for the study programme:

- Mathematics, Physics,
- Electrical engineering,
- Control engineering,
- System theory,
- Simulation,
- Computer science

- **Language requirements:**

- B2 English certificate (prior to DIT studies)
- A2 German (by the end of your DIT studies)

WHAT'S NEXT?

The programme prepares you to take on **key roles** in a **wide variety of positions** in **different areas** depending on your personal interests and background.

Job profile

- Autonomous Systems Engineer
- Robotics Engineer
- System Integration Engineer
- Embedded System Engineer
- ...

Areas and industries

- Hardware & software design
- Research & development
- Autonomous systems design
- Robotics
- Manufacturing
- Mobility & Automotive
- ...

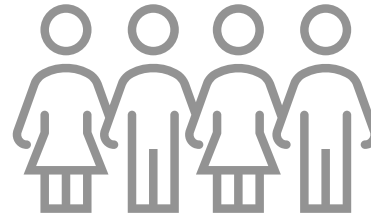
IS THIS PROGRAMME SUITABLE FOR YOU?

Yes, if...

...you want to study in a **practical way**.

...you want to do work in one the **fastest developing industry areas!**

...you have a Bachelor's degree in **Industrial, Mechanical or Electrical Engineering, Technical Physics, Mechatronics** or related fields.



...you enjoy **solving technical challenges that combine software, hardware, control, sensing, and innovation** with interdisciplinary teams.

...you have a basic understanding of **robotics** and a good knowledge of **control** and **mechanical engineering**.

... you want to discover and **develop pioneering solutions.**

WOULD YOU LIKE TO FIND OUT MORE?



Would you like more detailed information about the programme, or do you have any questions?

You are very welcome to contact **Prof. Dr.-Ing. Stefan Scherbarth.**

Simply make an appointment at stefan.scherbarth@th-deg.de.