OVERVIEW

Degree
- Master of Engineering (M.Eng.)

Duration
- 3 semesters

Start
- Annually in March (summer semester)
- Annually in October (winter semester)

Admission requirements
- Successful completion of a bachelor's degree in Industrial Engineering, Production Technology, 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.
- 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

Language of instruction
- English

APPLICATION

Application period
- 15 April - 15 July for entry in October
- 15 November - 15 January for entry in March

Online application
- In the Primuss Portal at www.th-deg.de/en/apply

Deadline for submission of required documents
- Summer semester: 15 January
- Winter semester: 15 July

Notice of acceptance or denial
- In the Primuss-Portal

Enrolment
- Information available in letter of admission

Semester start
- Summer Semester: 15 March
- Winter Semester: 1 October
- Deferred admission will not be granted

STUDY LOCATION

Campus Cham
Badstraße 21
93413 Cham
Germany
www.th-deg.de/en/campus-cham

CONTACT

Are you interested in studying this Master's in Applied AI for Digital Production Managment and would like to find out more?

Course enquiries

✉ studium-cham@th-deg.de
🌐 www.th-deg.de/en/campus-cham
📞 +49 9971 99673 29 or 21

General enquiries about studying at DIT

✉ welcome@th-deg.de
🌐 www.th-deg.de/en/advice

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CODE of CONDUCT

DEGGENDORF INSTITUTE OF TECHNOLOGY DIT
Campus Cham

DEGGENDORF INSTITUTE OF TECHNOLOGY DIT

MASTER
APPLIED AI FOR DIGITAL PRODUCTION MANAGEMENT

COURSE DESCRIPTION

This Master's degree program enables you as a Bachelor graduate in industrial engineering, production technology, mechatronics and other related fields of study to deepen your knowledge and understanding of the management of digital production systems that occur in industrial processes.

Lectures combining machine learning, data analysis, data management and intelligent systems will help you to deepen your understanding of innovative methods of data processing. In addition to this, modules in Advanced Statistical Methods & Optimization will prepare you for the increasing demands of AI in production, logistics and technology management.

You will tackle practical challenges and additionally strengthen your professional team skills by working on three case studies in AI, intelligent systems in production, and production systems, which are created and supervised by engineers from manufacturing companies.

Our dedicated professors and support staff as well as state-of-the-art workshops and labs provide you with an excellent infrastructure to study high-tech areas of AI in production.

After graduating from this master's programme, you will be able to carry out creative R&D work in the exciting professional world of AI in production management. Top graduates can potentially study for a doctoral degree.

COURSE CONTENT

This course is provided on Campus Cham, a teaching location of the Deggendorf Institute of Technology, where it is embedded in a state-of-the-art research and development centre focusing in areas of mechatronic systems and production technology, sensors and actuators, robotics and control technology.

The course consists of three theoretical semesters and concludes with the master's thesis.

Semester 1	Machine Learning and Deep Learning in Production and Logistics, Advanced Statistical Methods & Optimization, Data Management, Production and Logistics Management, Digital Tools in Development and Production, Case Study „AI Project"
Semester 2	Technology and Innovation Management, Advanced Intelligent Systems, Case Study Intelligent Systems in Production, Digital Production Systems, Case Study Production Systems, Compulsory Technical Elective (FWP)module (course-related elective subject)
Semester 3	Quality & Sustainability, Master's Thesis, Master's Semiar

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

Compulsory language courses are provided if your native language is not German.

YOUR FUTURE IN AI

Your future career prospects are bright as the skills you learn will enable you to work as an AI specialist in one of the following areas:

- Development and application of complex digital production systems, for example in areas of:
1. Digitized production control
2. Data management to increase material and energy efficiency
3. Real-time exchange of data between production facilities
4. Modern visualization of production data

- Leadership and management of technical projects
- Leadership of production, assembly or maintenance
- Quality management and quality assurance
- Industrial engineering
- Technology management
- Research and teaching