

## OVERVIEW

### Degree

- Master of Science (M.Sc.)

### Duration

- 3 semesters (1.5 yrs)

### Start

- Winter semester, 1 October.
- Summer semester, 15 March

### Admission requirements

- Bachelor's degree in Electrical Engineering, IT or a related field
- Digital admission test
- German A2 certificate, English B2 certificate

### Course language

- German and/or English

### Fees

- No tuition fees

### Location

- Deggendorf

## APPLICATION

### Application period

- Winter semester: 15 April until 15 July
- Summer semester: 15 November until 15 January

### Online application

- im Primuss-Portal unter [www.th-deg.de/bewerbung](http://www.th-deg.de/bewerbung)

### Notice of acceptance or denial

- im Primuss-Portal, Wintersemester bis Anfang August
- im Primuss-Portal, Sommersemester bis Anfang Februar

### Enrolment

- Information on this in the letter of admission

## STUDY LOCATION

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

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

## CONTACT

Are you interested in studying for this Master in Applied Computer Science and would like to find out more?

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

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



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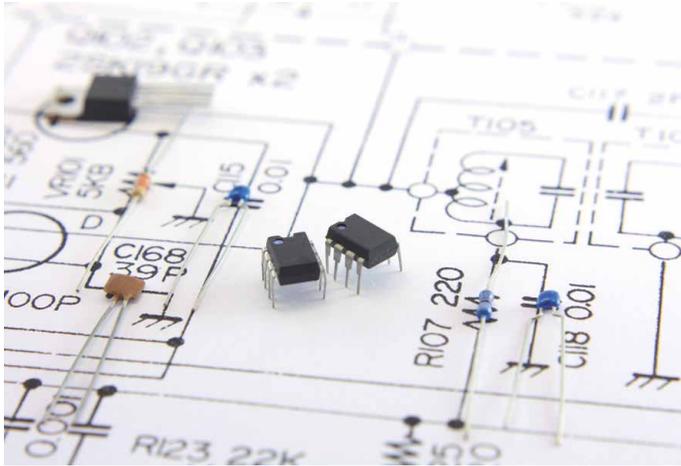
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MASTER  
APPLIED  
COMPUTER SCIENCE



## DEEPEN YOUR KNOWLEDGE

The area of computer science offers many options for specialisation. Especially in modern high-tech industries, new and complex tasks and problems await you that require in-depth knowledge. The Master's programme in Applied Computer Science at the Deggendorf Institute of Technology prepares you for a specialised career orientation in research and development, application, management, consulting or sales of embedded systems. You will focus on the development of embedded systems and special topics in electrical engineering and media technology.



### Focus on Language

This Master of Engineering is special because it is internationally oriented. Some of the subjects are taught in English. If you wish, you can complete your studies entirely in English.

### Focus on Internationality

You get even more internationality with a voluntary semester abroad at the University of Pilsen. DIT and the University of Pilsen offer a double degree.

### Focus on Practical Skills

Another advantage of studying in Deggendorf is the close connection to the research activities of the Faculty of Applied Computer Science. You will experience engineering activities applied to real problems live in the latest laboratories.

## COURSE CONTENT

The Master's programme in Applied Computer Science at the Deggendorf Institute of Technology comprises three theoretical semesters of study and concludes with the Master's thesis. The lectures of the Master's programme are partly held in English and in German. Knowledge of the German and English languages is therefore an indispensable prerequisite.

Upon successful completion of the Master's examination and the Master's thesis, the academic degree Master of Science, abbreviated M.Sc., is awarded.

Semester 1	Theoretical Computer Science, Practical Computer Science, Selected Topics of Embedded Software Development I, FPGA-Programming, Foreign Language I
Semester 2	Specific Mathematical Methods, Foreign Language II, 5 elective modules* from the following study programmes: <b>Master Electrical Engineering:</b> Selected Chapters of Micro- and Nanoelectronics, High-frequency and Radio Technology Systems, Special Components and Circuits, Signals and Systems of Communication and Engineering, Selected Topics in Contactless Sensor Technology, Automotive and Industrial Electric Drive Systems, Regenerative Energies <b>Master Media Technology:</b> 3D Computer Animation, Computervision, Industrial Image Processing, Information Security, Application Design, Multimedia Content and Streaming <small>*As some elective courses are given in German, choice of electives taught in English might be restricted</small>
Semester 3	Selected Topics of Embedded Software Development II <b>Master Thesis</b> <b>Master Colloquium</b>

## CAREER PROSPECTS

The digital world is growing. And so is the need for highly qualified engineers. Especially in the field of embedded systems, applications are becoming more and more complex, which is why Master's graduates with special knowledge are in demand. For example, as a developer of complex software and systems that you design, create and test. You can also plan and supervise such projects in an executive position. You can be responsible in the area of quality assurance, whether hardware, software or the entire system. Furthermore, the degree in Applied Computer Science offers you the basis for an academic career at universities and research institutes and serves as preparation for a doctorate. The ability to innovate, knowledge of English, the ability to work in a team and analytical thinking skills are generally always required for these tasks. Your talent for good communication and empathy for the future users of your systems will help you on your career path.

The industry in which you work is almost up to you. The Digitalisation and the Internet of Things open up a huge range of tasks for you. Embedded systems play a key role in Industry 4.0, automation technology and mechanical engineering. Possible employers for you also come from the field of consumer electronics/ household appliances, automotive engineering or the energy and environmental sector. From large corporations to start-ups, any working environment that suits you is available. Many engineers work in an international environment.

Graduates of the Master's programme Applied Computer Science find jobs in the following industries, among others:

- Electrical industry, semiconductor industry
- Medical technology, biomedical engineering
- Mechanical engineering, automation technology
- Automotive, aerospace technology
- Energy technology
- Consumer electronics, multimedia systems, domestic appliance technology
- Defence technology, security systems
- Navigation industry
- Software development
- Research and education