

PROFIL

1st to 3rd semester:

Professional and specialized studies

4th semester

Master thesis

Admission Requirements

Direct admission to the Master program DIGITAL TECHNOLOGIES can be granted to graduates of the following Bachelor programs:

- Digital Technologies, B.Sc.
- Computer science and IT programs

Graduates of other programs who possess the necessary computer science skills are also eligible for the Master program. You can, for example, acquire the necessary skills in our certificate program DigITec.PILOT or by providing evidence of comparable courses comprising 30 ECTS.

Non-native speakers of German have to proof a German level of at least A2.

Unique Feature

The study program can be completed in English, with a reduced range of courses. In the third semester, students with outstanding academic achievements can alternatively choose a research track.

Application period

The study start is only possible for the summer and winter semester. The program can only be commenced in winter term. You can apply from May 15 to July 15.

Classic fields of professional activity:

- Work at the interface of computer science and fields of application
- Research and Development in economy and industry
- Work for public administration and state institutions.

FURTHER QUESTIONS

Do you have further questions or need assistance applying for this study program? Please contact the central student advisory services.

Ostfalia Student Advisory Service

Telephone: +49 (0) 5331 939 15200

E-mail: zsb@ostfalia.de

TU Clausthal Student Advisory Service

Telephone: +49 (0) 5323 72 3671

E-mail: studienberatung@tu-clausthal.de

SPECIALIST COUNSELING

You have technical questions or need more detailed information on the structure and contents of the program? Please do not hesitate to contact our study program coordination and program advisory services.

PROGRAM COORDINATION

Ostfalia Program Coordinator

Verena Barby, M.A.

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TU Clausthal Program Coordinator

Steffen Küpper, M.Sc.

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PROGRAM ADVISORS

Ostfalia Program Advisor

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TU Clausthal Program Advisor

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WWW.DIGITECSTUDIERN.DE

DIGITAL TECHNOLOGIES

SUSTAINABLE. FUTURE. DIGITAL.



MASTER OF SCIENCE

DIGIT

Center for Digital Technologies

A collaborative study program of



THE PROGRAM

DIGITAL TECHNOLOGIES is a cooperative study program of TU Clausthal and Ostfalia University of Applied Sciences. In this program, both universities convey knowledge in topics of tomorrow. To do so, they merge their regional rootedness, their close connection of sciences, engineering and economics with their large network and their good contacts to companies and external institutions.

The Master program is characterized by the unique interlinking of computer science, six interesting fields of application and interdisciplinary digitalization projects. In only four semesters, this interlinking turns students into experts of digitalization, its technologies and of digital transformation.



COMPUTER SCIENCE

FIELDS OF APPLICATION

DIGITALIZATION PROJECTS

Upon successful completion of the Master program DIGITAL TECHNOLOGIES, you will receive a certificate of both universities which boosts your career opportunities and lays the basis for a consecutive Doctorate.

No other discipline develops as fast as computer science, no other discipline yields as many innovations relevant to our daily life. Computer scientists are allrounders who shape the future.

You can choose from these computer science disciplines:

- Cooperative Human-Machine Interaction
- Engineering Methods and Dependability
- Machine Learning and Big Data
- Smart Cyber-Physical Systems

COMPUTER SCIENCE

Choose the field of application you are most interested in and thus place your study scope! By this, you deepen your knowledge of various modern business areas of economy and industry. These are the best prerequisites for an outstanding start into your working life!

You can choose from the following fields of application:

- Autonomus systems
- Circular economy and environmental technology
- Digitale transformation
- Energy
- Industry 4.0
- Mobility

FIELDS OF APPLICATION

One of the key features of the program DIGITAL TECHNOLOGIES are the interdisciplinary digitalization projects. In these projects, Bachelor and Master students from different semesters develop prototypes for different assignments or problems for topics from the fields of application and computer science disciplines. Here, solutions are always approached by implementing digitalization technologies. In digitalization projects, students connect their fundamental knowledge of computer science with interesting questions and relevant problems of the fields of application.

DIGITALIZATION PROJECTS

IT'S YOUR CHOICE!

In the Master program DIGITAL TECHNOLOGIES, students decide on their individual focus by choosing majors and minors in computer science disciplines and fields of applications.

In the computer science major as well as in the major field of application, you choose three modules each. To additional modules are completed in the computer science minor and the minor field of application respectively.

It is again on the students to decide: You can choose the modules you are interested in from the modules catalog! The module catalog can be found in the module handbook www.digitecstudieren.de.

INTERNATIONALITY

The lectures of our Master program are offered mainly in German. The study program can be completed in English, with a reduced range of courses.

In consultation with the program counselor, students pursuing an academic carrier or wanting to place their focus in research can alternatively complete a research semester in the third semester.