

DEPARTMENT 04 – COMPUTER SCIENCE

MASTER DIGITAL TRANSFORMATION



HARD FACTS

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|----------------------------|--|
| Degree | Master of Science (M.Sc.) |
| Study program | fulltime |
| Regular course duration | 4 Semester |
| Start of studies | Winter semester |
| Entrance limitation | No |
| Deadline Admission | Current deadlines: www.fh-dortmund.de/deadlines |
| Admission EU nationals | Online via: www.fh-dortmund.de/application + Pre Check |
| Admission non-EU nationals | Online via: www.fh-dortmund.de/application + Pre Check |



DIGITAL TRANSFORMATION CONTENT AND STRUCTURE

The program qualifies for being a leading expert in digital transformation projects

The study program Master *Digital Transformation – MDT* – will lead to a university degree which is highly qualified academically and professionally.

The program qualifies for being a leading expert in digital transformation projects. The focus is the technical viewpoint – especially the process, methods and tools of software engineering and the development and application of digital systems. For the digital transformation the ability to work in cross-domain projects, to apply a system’s engineering approach, to involve users and stakeholders in the projects and to integrate results from different domains is required. The Master *Digital Transformation* provides the competences by conducting a 2-semester teaching and training program with case studies and lectures from industry experts and combining it with a 2-semester research and project phase with electives and thesis projects. Through the subject range offered by the *Ruhr Master School (RMS)*, the compulsory elective studies are integrated in a cross-university network. This offer is completed by international, project-oriented components and summer schools as well as symposia.

The 4-semester Master’s program aims to provide students with the qualifications required for the work in the relevant industry just as research and development institutions, consultation companies or civil services.

STUDY COURSE PLAN* – DIGITAL TRANSFORMATION

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|----------------|-----------------------|------------------------------|-----------------|------------------------|---------------------------------|
| 1. Semester | Innovation Driven SE | Software Architecture | Digital Systems | R&D Project Management | Scientific & Transversal Skills |
| 2. Semester | Usability Engineering | Software-intensive Solutions | Digital Systems | Elective | Scientific & Transversal Skills |
| 3. Semester | Elective | Elective | F&E Thesis | | |
| 4. Semester | Master Thesis | | | | |

*This is a thematic overview of the course contents. Detailed information on the exact names of the courses, information on Electives, ECTS or semester hours per week can be found in the module handbook on the page www.fh-dortmund.de/mdt



PERSPECTIVES AFTER GRADUATION

Professional perspectives

Graduates of this master course find their job opportunities:

- in software and IT companies
- in start up and innovation industry
- in mobility industry
- in research institutes

Information und counselling Career Service

Further information: www.fh-dortmund.de/careerservice

ADMISSION REQUIREMENTS

Required degree

Diplom or bachelor degree

“Diplom” or bachelor course of study of (technical) Computer Science, Electrical Engineering, Information Technology or a course program closely related to the master study course Digital Transformation at a university of applied sciences (Fachhochschule) or a university, or the completion of a corresponding accredited bachelor qualification program at a university of cooperative education (Berufsakademie) with an overall grade of at least “good” (2.5).

The qualifying degree course of study must have included instruction in the relevant competences in the areas of Digital Systems and Software Engineering equaling the required amount at the required level.

In addition, the courses of study must amount to a minimum of 180 credit points of the European Credit Transfer and Accumulation System (ECTS). Degrees obtained outside the ECTS-System must be converted into the ECTS-System.

Proof of English language skills

Proof of required English language proficiency acquired in the TOEFL ITP test with at least 550 points or in the TOEFL iBT test with at least 90 points, taken within the last two years before the application. The proof of language proficiency can also be provided by other test types equivalent to the TOEFL test in accordance with the *Common European Framework of Reference for Languages: Learning,*

Teaching, Assessment - CEFR, (e.g. IELTS with a score of at least 6.5). In exceptional cases, the proof can be provided by an equivalent certificate or other certificates that confirm the corresponding minimum requirements (equivalent to C1 of the *Common European Framework of Reference for Languages*). An appointed committee decides whether the equivalence is met.

Pre-Check Form

In order to be able to verify before the application whether you meet the requirements for admission to the program all applicants (EU, German, non-EU) are highly recommended to send us their documents for a pre-check to service-mdt@fh-dortmund.de.

Therefore, please send one PDF containing your bachelor's certificate and transcripts, your CV, your language certificates and the filled out form sheet. After the pre-check you will be provided with instructions and a link to the online portal.

More Details and the Pre-Check Form sheet

www.fh-dortmund.de/mdt

APPLICATION AND ADMISSION

Application of nationals from member states of the European Union (EU)

German nationals and international applicants from member states of the European Union (EU) and from Iceland, Liechtenstein and Norway as well as applicants from non-EU countries with a German family member as well as international applicants with a German university entrance qualification must register online via www.fh-dortmund.de for application beginning at the end of May.

Deadline for applications (receipt in Fachhochschule Dortmund) is July 15th for the winter semester. Before registering online it is highly recommended to send your documents for a pre-check to service-mdt@fh-dortmund.de. Please send one PDF containing your bachelor's certificate and transcripts, your CV and your language certificates. After the pre-check you will be provided with instructions and a link to the online portal.

Start of studies in winter
semester



Application and admission of non-EU national

International applicants from non-EU countries register online via www.fh-dortmund.de for application beginning in April. Deadline for applications (receipt in Fachhochschule Dortmund) is July 15th for the winter semester. Applications received after the deadline can be considered only if there are still free study places. Before registering online it is highly recommended to send your documents for a pre-check to service-mdt@fh-dortmund.de. Please send one PDF containing your bachelor's certificate and transcripts, your CV and your language certificates. After the pre-check you will be provided with instructions and a link to the online portal.

Current deadlines: www.fh-dortmund.de/deadlines

If you have questions concerning application, study structure, content of course and process of studies, please address to the Department counsellors or directly to masterdigi@fh-dortmund.de.

SEMESTER CONTRIBUTION

A semester contribution must be paid for the use of social and student facilities (student restaurant, student hostels, membership to student union, special-rate student ticket for public transportation in the federal state of North-Rhine Westphalia). Find the current contribution here www.fh-dortmund.de/semesterbeitrag

If you need information on financing of studies, please address to the Student Advisory Service (Studienberatung).

Information on BAföG (federal student support) will be given by the BAföG-Amt of the Studentenwerk.

FURTHER INFORMATION AND COUNSELLING

Student Advisory Service

The Student Advisory Service (Studienberatung) will help you, if you have questions regarding choice of study course, admission requirements, financial support etc.

P 0231 9112-8965

studienberatung@fh-dortmund.de

Office hours: www.fh-dortmund.de/student-advisory-service

Team des International Office

Responsible for applicants from Non-EU countries and questions regarding language tests

P 0231 9112-9732

international-office@fh-dortmund.de

contact: www.fh-dortmund.de/contact-io

Office hours:

Monday, Wednesday, Friday 9.30 – 12.30 a.m.

Tuesday: 1 – 4 p.m.

Department counsellors

If you have questions concerning application, study structure, content of courses and process of studies, please address to the Department counsellors

Course Coordinator

Jasmin Hemmer

masterdigi@fh-dortmund.de

