

## OVERVIEW

### Degree

- Master of Science, (M.Sc.)

### Duration

- 3 semesters

### Start

- October (winter semester)

### Admission requirements

- Successful completion (min. 210 ECTS credits) of a bachelors degree in Informatics, Healthcare Science, Economics or the equivalent
- English level C1 (TOEFL or TOEIC test 75%)

### Fees

- No tuition fees
- Student services fee €62 per semester

## APPLICATION

### Application period

- 15 April - 15 July

### Online application

- In the Primuss portal at [www.th-deg.de/apply](http://www.th-deg.de/apply)

### Notice of acceptance or denial

- In the Primuss portal until mid August

### Registration/matriculation

- You will find information on this in the admission notice

### Late placement for open places

- Via waiting list

### Prep courses

- In September [www.th-deg.de/prep-courses](http://www.th-deg.de/prep-courses) (optional)

### Semester start

- 01 October

## STUDY LOCATION

European Campus Rottal-Inn

Max-Breiherr-Strasse 32

84347 Pfarrkirchen, Germany

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



## CONTACT

Are you interested in this Medical Informatics master degree and would like to find out more?

### Enquiries about the course

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

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

### General enquiries about studying at DIT

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

🌐 [www.th-deg.de/en/study-with-us](http://www.th-deg.de/en/study-with-us)



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TECHNOLOGY **DIT**



MASTER

MEDICAL INFORMATICS



## DEGREE DESCRIPTION

### Digital health - the future is now!

Information and Communication Technologies (ICT) are rapidly changing the way medicine and healthcare are practiced, researched, studied, and taught. Whether you think of Electronic Health Records and Health Information Systems, Telemedicine and Virtual Visits, Mobile Health and Remote Monitoring, Digital Imaging and Virtual and Augmented Reality, Sensors and AAL, Artificial Intelligence, Robotics and Data Analytics, or Genomics and Personalized Medicine – the domain of Digital Health has become the main area of exciting innovations and developments in medicine and healthcare.

Don't miss your unique chance to become a specialist of the future, and to join a cohort of professionals who will be shaping the world of healthcare in the decades to come!

### Main features of the degree programme:

- Balanced combination of lectures, seminars and class discussions, case studies, lab training, and complementary activities such as participation in conferences and meetings, or field visits to healthcare facilities and Digital Health companies.
- International and global outlook – a focus on Germany, Europe, and North America, as well as in-depth coverage of Digital Health ecosystems and practices in various parts of the world.
- Exposure to global Digital Health community – impressive array of guest lectures, seminars and workshops by recognized global leaders and renowned experts in the field – from Europe and USA, to South Africa and Australia.

## CAREER PROSPECTS

Many healthcare processes can only be managed with comprehensive IT support. Informatics in the healthcare sector supply the healthcare industry with IT solutions and work mainly at the interface between informatics, medicine and medical care, the pharmaceutical sector, medical technology and administration.

Graduates can expect to launch their careers in:

- Digital Health project and programme management
- Digital Health product and service development
- Digital Health education and research
- Digital Health regulation and consultancies
- Digital Health units and departments
- Digital Health innovation and leadership

## COURSE AIM

This course is designed for delivering solid theoretical knowledge, practical skills and methodological competences in Digital Health – with an emphasis on management and research components – preparing graduates for taking over the leadership positions and driving the digital transformation of healthcare worldwide.

The focus is on hands-on, solution-oriented and implementation-oriented competencies in an international context, which are gained through concrete, practice-based projects and real-life case studies. Competencies in the areas of Health Care, eHealth, Research and Methodology as well as soft skills will be developed through a module-based course structure.

## COURSE CONTENT

The Master programme for Medical Informatics is comprised of three theoretical semesters and is concluded with a masters thesis. The lectures during this degree are carried out in English; therefore a sound understanding of English is an essential prerequisite.

1. Sem.	International Health Care Management, International Health Care Law, Medical Informatics, Case Study Medical Informatics, Standards, Terminology and Classification in Medicine, Case Study Standards, Evidence based Medicine, Case Study Evidence based Medicine, eHealth and Telemedicine, Case Study eHealth and Telemedicine  One Mandatory elective module (FWP): FWP -1 - Medicine for Non-Physicians FWP -2 - Computer Science for Medics
2. Sem.	Medical Documentation Systems, Case Study Hospital Information System, eHealth Application Systems, Case Study eHealth Application, Health Economy, Medical Statistics and Data Analysis, Collaborative Systems, Case Study International Project Management, Data Security and Data Protection, Case Study Data Security
3. Sem.	Intercultural and Interdisciplinary Communication, Seminar thesis <b>Master thesis</b>

## FIELDS OF COMPETENCE

### Module Group Health Care

Healthcare today takes place in a digitally networked context. This means that health systems are made up of macro, meso and micro levels of legal requirements and regulations from self-administration and organisations as well as the regional delivery. The knowledge and consideration of the management processes as well as the legal foundations of health care at a national and international level are the basis of these IT processes.

The legal challenges that occur need a baseline assessment of competence on a basis of compliance.

### Module Group eHealth

eHealth is an umbrella term covering a wide spectrum of Information and Communication Technologies (ICT), such as applications of telemedicine, in which information data about treatment and care of patients is digitally processed via secure data connections and exchanged. eHealth and ICT technologies are based on internationally agreed communication standards and classification systems and are per se collaborative systems with various interfaces. The challenges currently being faced, are concerning data protection and data security. These challenges require a solid assessment of competence based on the legal requirements.

### Module Group Research & Methodology

The evidence-based medicine provides empirically verifiable treatments that are provided both nationally and internationally and available primarily on the guidelines of medical societies. Evidence-based decisions on the basis of health economic foundations are abilities that every eHealth application must comply with. eHealth generates amounts of data that can be edited using exclusively modern techniques of data mining and data analysis, and thus form the basis for medical, therapeutic and nursing services.

### Module Group Soft Skills

The provision of the health service is carried out in an interdisciplinary, multi-professional context, in which multilingual services play an important role. The understanding of differences within the acceptance and adherence to health services across countries is important, but also the ability to work in multicultural and mixed teams.