

**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%)
- German level A1, a good beginner’s level

**Fees**
- No tuition fees
- Student service fees €52 per semester

**Study location**
- European Campus Rottal-Inn, Pfarrkirchen, Germany

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**APPLICATION**

**Application period**
- 15 April - 15 July

**Online application**
- in the Primuss-Portal at www.th-deg.de/bewerbung

**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**
- September www.th-deg.de/prep-courses (no obligation)

**Semester start**
- 01 October

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**STUDY LOCATION**

European Campus Rottal-Inn
Max-Breiherr-Strasse 32
84347 Pfarrkirchen, Germany
www.th-deg.de/ecri

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**CONTACT**

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

**Enquiries about the course**
- mi-info@th-deg.de
- www.th-deg.de/mi-m-en

**General enquiries about studying at DIT**
- welcome@th-deg.de
- www.th-deg.de/en/study-with-us/info-for-internationals

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**APPLICATION**

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Health care systems are characterized by a high degree of IT penetration as most clinical, nursing and therapeutic care processes are based on the administration and generation of information. For this purpose, all consultations and treatments are documented in networked systems and to be sent to the relevant professional groups. All clinics and medical practices have digital billing processes and electronic health records (EHR) are integrated into most clinics and medical practices. Since 1 January 2015, electronic health cards (eGK) are used by approx. 70 million people with statutory health insurance, as they are exclusively accepted as an authorization for the use of these services.

As digitization and internationalization of healthcare continues throughout the world, clinical documentation systems, accounting systems and new IT services need to be further developed. During this process, telemedicine plays an essential role; therefore comprehensive telematic infrastructures have been developed in Germany and in many other European countries over recent years.

**CAREER PERSPECTIVES**

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 documentation, medicine and medical care, the pharmaceutical sector, medical technology and administration.

Therefore the demand for qualified medical computer scientists in these fields is high:

- IT or data centre department management in hospitals and medical practices
- Health insurance companies
- Pharmaceutical industry
- Medical technology
- Medical technology healthcare facilities
- Healthcare service branches (logistics, software development, consulting)

**COURSE CONTENT**

The Master programme for Medical Informatics is comprised of three theoretical semesters and is concluded with a master thesis. The lectures during this degree are carried out in English; therefore a sound understanding of English is an essential prerequisite. Upon successful completion of the examination and master thesis, the degree of "Master of Science" is awarded.

| 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
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 |

**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 Internet 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 People 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.