

**Study and Examination Regulations for the
Master degree course in Medical Informatics
at the Deggendorf Institute of
Technology
dated 12 August 2015**

Based on Art. 13 Sec. 2 Sentence 2, 58 Sec. 1, 61 Sec. 2 Sentence 1 of the Bavarian University dated 23 May 2006 (BayRS 2210-1-1-WFK), successively amended (§ 1 No. 212 dated 22.7.2014, 286), the Deggendorf Institute of Technology passes the following articles:

**§ 1
Study Objective**

- (1) The Master degree course "Medical Informatics" is to enable the graduates of a Bachelor or Diplom courses to back up the previously acquired knowledge with theoretical knowledge in order to satisfy the requirements of modern research and development tasks. The programme is offered by the Faculty of Applied Health Sciences.
- (2) The academic studies add depth to a Bachelor or Diplom programme. The graduates are to be able to perform evidence-based work in research and development departments in the areas of telematics, telemedicine and medical informatics as well as in the area of service providers in the nationally and internationally connected health sector. Especially qualified students are to receive the theoretical fundamentals that allow them the conferral of a doctorate or to work in scientific areas.

**§ 2
Structure of the
academic studies**

The academic studies consist of three theoretical study semesters and ends with the Master thesis.

**§ 3
Qualification for the
academic studies**

- (1) The student will be qualified for the Master degree course in Medical Informatics when he had completed undergraduate studies at a national or foreign university with at least

210 ECTS points in computer sciences, health sciences, economic sciences or if he has a degree that is equivalent to such a university degree. The board of examiners makes the decision about the equivalence of the degrees.

- (2) English language skills, proven by a TEOFL or TOEFL tests, passed with at least 75 % of the maximum achievable points or comparable tests of level C1 according to the European reference framework for languages, GER. The proof of English language skills can also be provided through other equivalent certificates (e.g. a relevant first degree acquired in English). The board of examiners of the university's language centre makes the decision about the comparability of the degrees. Missing supporting documents are to be provided by the end of the first study semester.

§ 4

Proof of missing ECTS points

If the applicant shows proof of a university degree for the admission for which less than 210 ECTS points but at least 180 ECTS points had been awarded or have been considered as equivalent, the proof of the missing ECTS points are required for passing the Master examination. Missing ECTS points that have to be achieved by the beginning of the third semester can be proven - on application - to the board of examiners via the completion of an additional internship or via the participation in subject-relevant university courses. The proof can be provided only once for each option. A maximum of 30 ECTS points can be shown. The following conditions need to be met for the proof:

1. Internship

The successful completion of a relevant internship of at least 20 weeks in the area of computer science.

2. Subject-relevant university courses

The following modules can be selected from the Bachelor course unless they have already been completed during the undergraduate program.

E-30 IT security and Controlling

E-31 IT-Compliance & Audit and Monitoring

E-25 Internet marketing and Screen Design

E-12 Operating systems and computer

architecture E-15 Basics of ERP programming

As an alternative, it is possible to select modules from the General Engineering programme of the university. This is a specific interdisciplinary programme tailored to engineers from various English-speaking modules that have been recently put together by the university.

The relevant student advisor is to be consulted in advance.

§ 5 Modules

- (1) The academic studies consist of modules that can be comprised of subject-related courses. ECTS points are assigned to each module, which take into account the expenditure of time required from the students. The courses and examinations are conducted in English.
- (2) The compulsory modules and compulsory elective modules, the forms of teaching, their hours as well as ECTS points are set out in the Appendix to these articles. The regulations for the specialist compulsory elective modules are supplemented by the curriculum.
- (3) All events consist of compulsory modules, compulsory elective modules or elective modules:
 1. Compulsory modules are mandatory for all students.
 2. Compulsory elective modules are offered as an alternative. The students must choose among them in accordance with these Study and Examination Regulations. The selected modules are treated like compulsory modules.
 3. Elective modules are modules that are not required to achieve the study objective. The students can select them as extra courses from the range of courses offered by the university.
- (4) There is no requirement that all major fields of studies, compulsory elective modules and elective module are actually offered. Likewise, there is no requirement that the associated courses are conducted if there are not a sufficient number of participants.

§ 6 Curriculum

The relevant faculty prepares a curriculum to secure the range of courses and to provide the students with information, which shows the details of the academic studies. The curriculum will be decided by the faculty council and publically announced within the university prior to the beginning of the semester. The announcement of changes or new regulations will be made by the beginning of the lecture period of the semester in which these changes apply for the first time. The curriculum includes, in particular, regulations and information about

1. the allocation of semester periods per week per module and study semester incl. ECTS points
2. the description of the offered major fields of study and their compulsory modules and compulsory elective modules as well as their hours, the type of teaching, the study objectives and the study content of these modules

3. the specialist compulsory elective modules incl. hours and the form of teaching in the individual modules unless they have been set out conclusively in the Appendix

§ 7

Evaluation of performances, final examination grade

- (1) Each module includes an exam. If a module exam consists of several exam performances, the module grade is calculated from the arithmetic average of the individual exam performances and rounded to one decimal place. The individual exam performances are weighted according to the assigned ECTS points.
- (2) If a module exam consists of several exam performances, the grade "not sufficient" in a partial exam can be offset with a better grade in another partial exam.
- (3) The final examination grade is calculated by forming the weighted arithmetic average of the individual grades. The weight of an individual grade equals the number of the ECTS points assigned to a subject for which the grade was given.
- (4) In addition to the final examination grade according to Paragraph 3, a relative grade according to the ECTS user guide and the regulations in § 8 Paragraph 6 of the General Examination Regulations of the Deggendorf Institute of Technology will be issued based on the achieved numerical value.

§ 8

Master thesis

- (1) A Master thesis is required to earn the Master degree. With the Master thesis, the student is expected to demonstrate his ability to apply in an independent scientific work the knowledge that he acquired during the academic studies to real engineering projects.
- (2) The period between the issue of the topic and the submission must be appropriate in regard to the scope of the topic and should not exceed six months.
- (3) The Master thesis may be written in a foreign language if approved by the board of examiners. The Master thesis is to be presented in a presentation; the presentation will contribute to the evaluation of the Master thesis.
- (4) A minimum of 40 ECTS points must have been earned before the student can register for the Master thesis.

§ 9
Certificate

A certificate for the passed Master examination will be issued based on the respective sample in the Appendix of the General Examination Regulations of the Deggendorf Institute of Technology.

§ 10
Academic degree and Diploma supplement

- (1) After the successful completion of the Master examination, the academic degree "Bachelor of Engineering" abbreviated version: "M. Sc." will be granted.
- (2) A certificate of the granted academic degree will be issued based on the respective sample in the Appendix of the General Examination Regulations of the Deggendorf Institute of Technology.
- (3) A Diploma Supplement will also be enclosed, which describes, in particular, the basic study contents on which the graduation is based, the course of studies and the qualification acquired with the graduation.

§ 11
Legal validity

These Study and Examination Regulations will take effect on 1 October 2015.

Issued on the basis of the decision of the University Council of the Deggendorf Institute of Technology, dated 11.12.2014, and the approval of the Bavarian State Ministry for Education and Culture, Science and Art dated 05.05.2015, Gz. VIII.3-H3441.DE/31/7 and the President of the Deggendorf Institute of Technology, dated 12.08.2015.

Signed
Prof. Dr. Peter Sperber
President

These articles were laid down on 12.08.2015 at the Deggendorf Institute of Technology and posted on 12.08.2015. The day of the announcement is therefore the 12.08.2015.