

**Academic Study and Examination Regulations  
for the Master programme of the Faculty of Computer  
Science M.Sc. Artificial Intelligence  
at the Technische Hochschule Ingolstadt from  
07.02.2022**

**in the version of the amended articles of association**

**dated 6 November 2023 Preamble**

Based on Art. 9, Art. 80 para. 1 sentence 1, Art. 84 para. 2 and 3 and Art. 90 para. 1 sentence 2 of the Bavarian Higher Education Innovation Act (BayHIG) of 5 August 2022 (GVBl. p. 414, BayRS 2210-1-3-WK), as amended, Technische Hochschule Ingolstadt issues the following statutes:

**Preliminary remark on the use of language**

For reasons of readability and clarity, all references to persons and functions are made in the masculine form and apply equally to all genders.

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## **§ 1**

### **Purpose of the academic study and examination regulations**

These academic study and examination regulations serve to complete and supplement the General Examination Regulations of Technische Hochschule Ingolstadt (APO THI) dated 17 July 2023, as amended.

## **§ 2**

### **Study objective**

- (1) <sup>1</sup>The aim of the Artificial Intelligence Master's programme is to provide in-depth and application-oriented training in the latest methods and concepts of artificial intelligence. It enables graduates to independently design, implement and apply AI solutions in terms of data management and algorithms for a wide range of practical and research issues and to evaluate these with regard to security aspects. The study course enables them to work independently in the development and application of artificial intelligence. <sup>4</sup>It also creates a theoretical-scientific basis for a possible doctorate or work in the scientific field. <sup>5</sup>In addition to technical and methodological knowledge, the study course also provides impulses for the development of social skills and sharpens the view of the influence of artificial intelligence on society and its changes. <sup>6</sup>It also promotes independent scientific work with a focus on applied research.
- (2) <sup>1</sup>The knowledge acquired in the Artificial Intelligence Master's programme enables graduates to take on qualified specialist and management tasks in the field of artificial intelligence and enables them to work on or manage complex projects. <sup>2</sup> Graduates meet international and intercultural requirements and are prepared to take on responsibility and management tasks.  
The Master programme also gives students the opportunity to go on to do a doctorate or work in research.
- (3) The study course is conducted in English.

## **§ 3**

### **Qualification for academic study**

- (1) Qualification requirements for admission to the Master's programme are
  - a) proof of successful completion of an academic study programme at an English university with at least 210 ECTS credit points or equivalent in the field of Artificial Intelligence, Data Science, Computer Science, Mathematics, Engineering Sciences, Computational Linguistics or a related field or an equivalent successful domestic or foreign degree and
  - b) successful participation in an aptitude test; further details are regulated by the statutes on the aptitude test for the Artificial Intelligence Master programme at Technische Hochschule Ingolstadt dated 06.11.2023, as amended.

(2) For degrees without credit points, the proven hours (workload) are converted into credit points, whereby one credit point corresponds to 25 hours. <sup>2</sup>If no time hours are proven, 30 ECTS are recognised per theoretical study semester. <sup>3</sup>Practical semesters are recognised with a further 30 ECTS credits, provided that they correspond in type and scope to the practical study semester at Technische Hochschule Ingolstadt.

(3) <sup>1</sup>Proof in accordance with para. 1 must be provided by the day of Enrollment at the latest. <sup>2</sup>If the proof according to para. 1 sentence 1 lit. a) is not provided by the end of the application period, a corresponding confirmation from the university must be provided by then, which credibly confirms the fulfilment of the requirement according to para. 1 sentence 1 lit. a) by the end of the enrolment period; the obligation according to sentence 1 remains unaffected.

(4) <sup>1</sup>Applicants who can prove that they have completed a university degree or an equivalent degree for which fewer than 210 but at least 180 ECTS credits have been awarded will be admitted if the other requirements in paragraph 1 are met and proof of the missing competences is provided with the application for admission. <sup>2</sup>The missing competences according to sentence 1 are proof of compensation of the competence gap of up to 30 ECTS credit points in addition to the qualification requirement to be proven in paragraph 1 sentence 1 a) at least at Bachelor's level. <sup>3</sup>The missing competences must be proven by the end of the application period at the latest and can be proven as follows:

- a. by providing proof of practical professional experience outside the academic study programme, which corresponds in terms of content and scope to the basic internship and/or internship semester of a Bachelor degree programme in the field of Artificial Intelligence, Data Science, Computer Science, Mathematics, Engineering Sciences, Computational Linguistics or an equivalent Bachelor degree programme, e.g. at the Technische Hochschule Ingolstadt, provided that the degree submitted shows deficits in the area of the practical skills to be proven compared to the qualification requirement according to para. 1 sentence 1 lit. a), or
- b. by providing proof of practical or theoretical academic studies and examinations completed in addition to the first degree at a German or foreign university, which in terms of content and scope correspond to the requirements of a Bachelor's degree programme in the field of Artificial Intelligence, Data Science, Computer Science, Mathematics, Engineering Sciences, Computational Linguistics or an equivalent Bachelor's degree programme, e.g. at Ingolstadt University of Applied Sciences, provided that the degree presented shows deficits in the area of theoretical or practical skills compared to the qualification requirement according to para. 1 sentence 1 lit. a). e.g. at Technische Hochschule Ingolstadt, provided that the degree submitted shows deficits in the area of the theoretical or practical competences to be proven compared to the qualification requirement according to para. 1 sentence 1 lit. a).

<sup>4</sup>The Examination Board decides on equivalence in accordance with sentence 3 and para. 1 sentence 1 lit. a), taking into account the principles of Art. 86 para. 1 BayHIG.

- (5) The requirements specified in para. 1 sentence 1 lit. a) and lit. b) must be met cumulatively.
- (6) If an applicant is not admitted, he or she will be informed of this in writing, stating the reasons.

#### **§ 4**

##### **Type and duration of the study course**

- (1) The study course is run as a consecutive degree programme (full-time study).
- (2) <sup>1</sup>The study course comprises a standard period of study of three theoretical semesters with a workload of 90 ECTS. <sup>2</sup>The Master's Thesis should also be completed during this standard period of study.
- (3) <sup>1</sup>The university can also offer its courses offered with the support of virtual course types. <sup>2</sup>The curriculum regulates the details.
- (4) <sup>1</sup>Parts of the degree programme can be offered in cooperation with partner universities and completed there. <sup>2</sup>The curriculum regulates the details.

#### **§ 5**

##### **Credit points**

<sup>1</sup>Credit points are awarded in accordance with the European Credit Transfer System (ECTS) for examinations passed and degree-related performance assessments per module. <sup>2</sup>As a rule, a maximum of 60 credit points are awarded per academic year. <sup>3</sup>One credit point corresponds to a study load of 25 hours, which is made up of attendance courses and distance learning phases. <sup>4</sup>The number of credit points can be found in Annex 1 to these study and examination regulations.

#### **§ 6**

##### **Modules and evidence of academic achievement**

- (1) The modules, their number of hours, the type of lectures, the examinations, the degree-related performance assessments and further provisions are set out in Annex 1 to these Statutes.
- (2) All modules are either compulsory, compulsory elective or elective modules:
  1. Compulsory modules are the modules of the study course that are mandatory for all students.
  2. <sup>1</sup>Elective modules are the modules of the study course that are offered individually or in groups as alternatives. <sup>2</sup>Each student must make a specific selection from among them in accordance with these regulations. <sup>3</sup>The selected modules are treated as compulsory modules.

3. <sup>1</sup>Elective modules are modules that are not mandatory for achieving the study objective. <sup>2</sup>They can be additionally selected by students from the entire range of programmes offered by the university.
- (3) Selected modules, including examinations and/or evidence of academic achievement, may be held in English as specified in the curriculum.
- (4) <sup>1</sup>There is no entitlement to the Master's programme being offered if the number of qualified students is insufficient. <sup>2</sup>There is also no entitlement to all modules being offered in every semester.

## **§ 7** **curriculum**

- (1) <sup>1</sup>In order to ensure the courses offered and to keep students informed, the responsible faculty draws up a curriculum which sets out the course of the academic study programme in detail. <sup>2</sup>The curriculum is decided by the responsible faculty council and must be publicised at the university. <sup>3</sup>The publication of new regulations must take place at the latest at the beginning of the lecture period of the semester in which the regulations are to be applied for the first time.
- (2) In particular, the curriculum contains regulations and information on
1. the distribution of weekly semester hours per module and study semester,
  2. the catalogue of selectable elective modules with the names of the modules and their number of weekly semester hours,
  3. more detailed provisions on the course-related performance and participation certificates,
  4. the form and organisation of lectures,
  5. the course type in the individual modules, insofar as it has not been conclusively defined in Annex 1,
  6. the study objectives (learning outcomes) and content of the individual modules,
  7. more detailed provisions on the type and scope of the module examinations, insofar as these have not been conclusively defined in Annex 1,
  8. more detailed provisions for lectures offered via new media,
  9. the language of instruction and examination in the individual modules, insofar as this is not in English.

## **§ 8** **Master's Thesis**

- (1) In the Master's Thesis, students should demonstrate their ability to apply the knowledge acquired during degree studies to complex practical tasks in a self-completed scientific work.

(2) The topic of the Master's Thesis is issued at the beginning of the second semester at the earliest. <sup>2</sup>Before the topic of the Master's Thesis can be issued, students must have successfully completed at least 30 ECTS credits in academic studies and examinations.

- (3) The Master's Thesis takes six months to complete.
- (4) In all other respects, the regulations on the thesis in the APO THI apply.

## **§ 9**

### **Assessment of performance, overall examination grade**

- (1) The Master's examination is deemed to have been passed if all prescribed modules and the Master's Thesis have been passed with a grade of at least "sufficient".
- (2) The overall examination grade is calculated by weighting the individual grades in accordance with Appendix 1.

## **§ 10**

### **Master's examination certificate**

- (1) <sup>1</sup>A certificate of successful completion of the Master's examination is issued in accordance with the specimen contained in the annex to the APO THI. <sup>2</sup>The sample certificate is specified in accordance with these academic study and examination regulations.
- (2) A Diploma Supplement is issued together with the certificate of successful completion of the Master's examination in accordance with the sample contained in the Annex to the APO THI.

## **§ 11**

### **Academic degree**

- (1) Upon successful completion of the Master's examination, the academic degree "Master of Science", abbreviated to "M.Sc.", is awarded by Technische Hochschule Ingolstadt.
- (2) A certificate is issued for the award of the academic degree in accordance with the sample contained in the annex to the APO THI.

## **§ 12**

### **entry into force**

<sup>1</sup>These academic study and examination regulations come into force on 01 October 2022.

<sup>2</sup>They apply to all students who begin their academic studies on this study course from the winter semester 2022/2023.

Issued on the basis of the resolution of the Senate dated 7 February 2022, the resolution of the University Council dated 22 February 2022 and approved by the president

Ingolstadt, 04/03/2022

Prof Dr Walter Schober President

The Articles of Association were deposited at Technische Hochschule Ingolstadt on 4 March 2022. The resignation was announced on 4 March 2022 by means of a notice. The date of announcement is therefore 04/03/2022.