

**Academic study and examination regulations  
for the further education master programme  
M. Eng. Automotive Production Engineering & Artificial Intelligence  
at the Technische Hochschule Ingolstadt  
from 29.04.2024**

**Preamble**

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

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## § 1

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

These academic study and examination regulations serve to fulfil the General Examination Regulations of Technische Hochschule Ingolstadt (APO THI) dated 17 July 2023 in their currently valid version.

## § 2

### **Aim of the academic study programme**

- (1) <sup>1</sup>The aim of the postgraduate master's programme is to impart engineering knowledge with a focus on automotive production and computer science with a focus on artificial intelligence (AI). <sup>2</sup>Future students should be able to develop and provide solutions to increase efficiency in production with the help of AI. <sup>3</sup>This should enable them to strengthen Germany as a production location and actively shape the mobility transition. <sup>4</sup>In addition to technical and methodological knowledge, the study course also imparts overarching qualifications such as social skills and intercultural competence.
- (2) The study course is conducted in English.

## § 3

### **Qualification for academic study**

- (1) <sup>1</sup>Qualification requirements for admission to the continuing education programme are:
  - a) Proof of successful completion of an engineering, natural science, technical or economic degree or computer science programme at a German university with at least 210 ECTS credits or equivalent or an equivalent successful domestic or foreign degree,
  - b) proof of at least one year of relevantly qualified practical professional experience following completion of the university degree or equivalent qualification referred to in a); relevantly qualified practical professional experience includes in particular activities in the areas of product or technology development, information technology (IT) in general, enterprise resource planning (ERP), Industry 4.0, Internet of Things (IoT) or manufacturing execution systems (MES); project work in the area of "Digitalisation of the company" is considered to be relevantly qualified practical professional experience and
  - c) proof of sufficient knowledge of the English language (language level B2 of the Common European Framework of Reference for Languages).

<sup>2</sup>The Examination Board decides on the equivalence and conversion in accordance with sentence 1 a) and the relevant qualified practical professional experience in accordance with b).
- (2) <sup>1</sup>In the case of 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 points have been awarded, qualified internship experience in accordance with para. 1 sentence 1 b) can be established as proof of qualification to compensate for the missing ECTS points as an admission requirement with the approval of the Examination Board if this essentially corresponds to an internship of an engineering, natural science, technical, business administration or economics programme described in more detail in Annex 2.

or Computer Science Bachelor's degree, e.g. at the Technische Hochschule Ingolstadt. <sup>2</sup>This must be evidenced by a qualified reference. <sup>3</sup>This must provide evidence of the type, duration, content and scope of the applicant's actual work. <sup>4</sup>The content requirements for the proof of qualification in accordance with sentence 1 are specified in Annex 2, stating the qualification objectives.

- (3) The requirements listed in para. 1 lit. a) to lit. c) must be met cumulatively.
- (4) If an applicant is not admitted, he or she will be informed in writing, stating the reasons.

## **§ 4**

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

- (1) The degree programme for qualified professionals is run as a part-time programme.
- (2) <sup>1</sup>The study course comprises a standard period of study of five theoretical semesters with a workload of 90 ECTS. <sup>2</sup>The Master's Thesis is also to be completed during this standard period of study. <sup>3</sup>It corresponds to a full-time equivalent of three semesters.

## **§ 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 40 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 events and self-study. <sup>4</sup>The number of credit points can be found in Appendix 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 must be completed by 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 courses offered by the university.
- (3) <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>Likewise, there is no entitlement to all compulsory modules and elective modules being offered in every semester.

## § 7

### Module handbook

- (1) <sup>1</sup>In order to ensure the courses offered and to inform students, the programme director responsible draws up a module handbook detailing the course of academic study. <sup>2</sup>The module handbook is adopted by the Faculty of Studies THI Campus for Further Education (TCW) 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 module handbook 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.
- (3) In the module handbook, the attendance days or the semester hours per week of the modules can be modified with the approval of the TCW Faculty Board in such a way that some of the course hours are replaced by corresponding units of self-directed learning or are offered via new media.

## § 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 an independent scientific work.
- (2) <sup>1</sup>The Master's Thesis is issued at the earliest at the end of the lecture period of the third semester and at the latest by the middle of the fourth semester. <sup>2</sup>A prerequisite for the issue of the topic is that at least 30 ECTS credits have been successfully completed in academic studies and examinations.
- (3) The deadline from the issue of the topic until submission is nine months.
- (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 will be issued in accordance with the model contained in 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 for the passed Master's examination in accordance with the model contained in the APO THI.

## **§ 11**

### **Academic degree**

- (1) Upon successful completion of the Master's examination, the academic degree "Master of Engineering", abbreviated to "M. Eng." is awarded.
- (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 1 March 2025. <sup>2</sup>They apply to all students who begin their academic studies on this study course from the summer semester 2025.

Issued on the basis of the resolution of the Senate of Technische Hochschule Ingolstadt dated 29 April 2024, the resolution of the University Council dated 20 June 2024 and approved by the President.

Ingolstadt, 01/08/2024

Prof Dr Walter Schober

President

Academic study and  
examination regulations  
Statutes

These statutes were deposited at Technische Hochschule Ingolstadt on 05/08/2024. The resignation was announced digitally on 5 August 2024 by posting it on the homepage of Technische Hochschule Ingolstadt. The date of publication is therefore 05/08/2024.