

**Academic study and examination regulations
for the further education master programme
M. Eng. Renewable Energies and Hydrogen Technology
at Technische Hochschule Ingolstadt
from 22.01.2024**

Preamble

Based on Art. 9 sentence 1, Art. 80 para. 1 sentence 1 and Art. 84 para. 2 and 3 as well as Art. 90 para. 1 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:

Preliminary remark on the use of language

For reasons of readability and clarity, all references to persons and functions are in 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

Aim of the academic study programme

- (1) ¹The aim of the postgraduate master programme M. Eng. "Renewable Energies and Hydrogen Technology" is to impart engineering sciences knowledge as well as interdisciplinary knowledge from the fields of renewable energy systems and hydrogen technology. ²Future graduates should be able to independently develop systems for energy generation, energy storage and energy transport with the aid of renewable energies and in particular using hydrogen as an energy carrier. ³They should also be able to evaluate these solutions in terms of economic efficiency and sustainability. ⁴This should enable them to play an active role in shaping the energy and mobility transition with the help of renewable energies and hydrogen as an energy carrier. ⁵On the basis of scientific findings and methods, graduates are prepared for management and expert tasks in internationally operating companies and organisations. ⁶In addition to technical and methodological knowledge, the study course also provides impetus for the development of social skills. ⁷It also promotes independent scientific work with a focus on applied research.
- (2) ¹The knowledge acquired in the M. Eng. "Renewable Energies and Hydrogen Technology" master programme enables graduates to take on qualified specialist and management tasks in the field of renewable energies and hydrogen technology as well as related disciplines and enables them to work on or manage complex projects. ²Graduates have the intercultural and communication skills required to work in an international context. ³The master's programme also opens up the possibility of a subsequent doctorate or work in research.
- (3) The study course is conducted in English.

§ 3

Qualification for academic study

- (1) ¹Qualification requirements for admission to the further education master programme are:
 - a. Proof of successful completion of an engineering sciences, natural science or technical academic study programme at a German university or a comparable degree with at least 210 ECTS credit points or equivalent or an equivalent successful domestic or foreign degree,

- b. proof of at least one year of relevantly qualified practical professional experience after completing the university degree programme referred to in a) or after the equivalent degree, and
- c. proof of sufficient knowledge of English (language level B2 of the Common European Framework of Reference for Languages).

²The Examination Board decides on the equivalence and conversion in accordance with sentence 1 a) and the relevant qualified practical professional experience in accordance with sentence 1 b).

- (2) ¹In 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, the qualified practical experience pursuant to para. 1 sentence 1 lit. b) as proof of qualification to compensate for the missing ECTS points as an admission requirement, if this essentially corresponds to an internship of an engineering, natural science, technical or computer science Bachelor's degree programme, e.g. at the Hochschule Ingolstadt, as described in more detail in Annex 2. ²This must be documented by a qualified employer's reference. ³This must provide evidence of the type, duration, content and scope of the applicant's actual work. ⁴The content requirements for the proof of qualification in accordance with para. 2 sentence 1 are specified in Annex 2, stating the qualification objectives.
- (3) The requirements set out in paragraph 1 sentence 1 a) to c) must be met cumulatively.
- (4) If an applicant is not admitted, he/she will be informed of this 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) ¹The study course comprises a standard period of study of five theoretical semesters with a workload of 90 ECTS. ²The Master's Thesis should also be completed during this standard period of study. ³It corresponds to a full-time equivalent of three semesters.

§ 5

credit points

¹Credit points are awarded in accordance with the European Credit Transfer System (ECTS) for examinations passed and degree-related performance assessments per module. ²As a rule, a maximum of 40 credit points are awarded per academic year. ³One credit point corresponds to a study load of 25 hours, consisting of attendance and self-study. ⁴The 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. ¹Elective modules are the modules of the study course that are offered individually or in groups as alternatives. ²Each student must make a specific selection from among them in accordance with these regulations. ³The selected modules are treated as compulsory modules.
 3. ¹Elective modules are modules that are not mandatory for achieving the study objective. ²They 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 German as specified in the module handbook.
- (4) ¹There is no entitlement to the Master's programme or elective modules being offered if the number of qualified students is insufficient. ²Likewise, there is no entitlement to all compulsory modules and compulsory elective modules being offered in every semester.

§ 7

Module handbook

- (1) ¹In order to ensure the courses offered and to inform students, the programme director responsible draws up a module handbook detailing the course of study. ²The module handbook is adopted by the TCW Faculty of Studies at Technische Hochschule Ingolstadt and must be publicised at the university. ³The publication of new regulations must be made no later than 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 semester hours per week,
 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, unless these are held in English.
- (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) ¹The 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. ²The prerequisite for submitting 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) ¹A certificate of successful completion of the Master's examination is issued in accordance with the specimen contained in the annex to the APO THI. ²The 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 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 Engineering", short form: "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

¹These academic study and examination regulations come into force on 1 October 2024.

²They apply to all students who begin their academic studies on this study course from the winter semester 2024/25.

Issued on the basis of the resolution of the Senate of Technische Hochschule Ingolstadt dated 22 January 2024, the resolution of the University Council dated 6 March 2024 and approved by the President.

Ingolstadt, 13/05/2024

signed.

Prof Dr Walter Schober President

These statutes were deposited at Technische Hochschule Ingolstadt on 14 May 2024. The resignation was announced digitally on 14 May 2024 by posting it on the homepage of Technische Hochschule Ingolstadt. The date of publication is therefore 14 May 2024.