Study and Examination Regulations for the M.Eng. Hydrogen Technologies & Applications Master's programme at Technische Hochschule Ingolstadt dated 10 January 2022

as amended by the amendment of 23 February 2026

Preamble

Pursuant to Article 9, sentence 1; Article 80(1), sentence 1; Article 84(2) and (3); and Article 90(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, Ingolstadt University of Applied Sciences hereby adopts the following Statutes:

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§ 1
Purpose of the Study and Examination Regulations

These Study and Examination Regulations serve to supplement and amend the General Examination Regulations of the Technische Hochschule Ingolstadt (APO THI) dated 17 July 2023, as amended.

§ 2
Aims of the programme

(1) [1] The aim of the Master's programme in 'Hydrogen Technology and Economy' is to impart engineering knowledge and interdisciplinary expertise in the fields of hydrogen technology and the hydrogen economy. [2] Future graduates should be able to understand the technology chain of hydrogen as an energy carrier, from production through storage and transport to the associated applications, to develop new products or solutions in this regard, and to evaluate these in terms of economic viability and sustainability. [3] This is intended to enable them to play an active role in shaping the energy and mobility transition with the aid of hydrogen technologies. [4] Based on scientific findings and methods, graduates are prepared for leadership and specialist roles in internationally active companies and organisations. [5] In addition to specialist and methodological knowledge, the programme also provides impetus for the development of social skills. [6] It also promotes independent academic work with a focus on applied research.

(2) [1]The knowledge acquired in the Master's programme in 'Hydrogen Technology and Economy' enables graduates to take on specialist and managerial roles in the field of hydrogen technologies and related disciplines, and allows them to participate in complex projects. [2] Graduates meet international standards.

(3) The programme is taught in English.

§ 3
Entry requirements

(1) [1] Entry requirements for the Master's programme are:

a. proof of a successful degree from a German university in the field of engineering, process engineering or similar programmes comprising at least 210 ECTS credits or an equivalent course load, or an equivalent successful domestic or foreign degree, and

b. proof of sufficient knowledge of the English language (language level B2 of the Common European Framework of Reference).

[2] The Examination Board shall decide on the equivalence of the completed degree programme or the equivalent qualification acquired in accordance with sentence 1, in accordance with Article 86 of the Bavarian Higher Education Act (BayHIG).

(2) [1] In the case of qualifications that do not specify credit points, the documented hours (workload) shall be converted into credit points, whereby one credit point corresponds to a workload of 25 hours. [2] If no hours are documented, 30 ECTS credits shall be recognised per theoretical semester of study. [3] Practical semesters shall be recognised with a further 30 ECTS, provided that these correspond in nature and scope to the practical semester at the Technische Hochschule Ingolstadt.

(3) [1] The evidence referred to in paragraph 1, first sentence, must be provided no later than the date of enrolment. [2] If the evidence referred to in paragraph 1, sentence 1, point (a) is not provided by the end of the assessment period, a corresponding confirmation from the higher education institution must be provided by that date, credibly confirming that the requirement under paragraph 1, sentence 1, point (a) has been met by the end of the enrolment period; the obligation under sentence 1 remains in force.

(4) [1]Applicants who can demonstrate that they hold a completed university degree or an equivalent qualification for which fewer than 210 but at least 180 ECTS credits were awarded shall be admitted provided that the other requirements set out in paragraph 1, sentence 1 are met and the missing qualifications are demonstrated in the application for admission. [2] The missing qualifications referred to in the first sentence relate to proof of having bridged the qualification gap by a further maximum of 30 ECTS credits in addition to the qualification requirement to be demonstrated in accordance with paragraph 1, first sentence, at a minimum of bachelor's degree level. [3] Proof of the missing competences must be provided by the end of the application period at the latest and may be provided as follows:

a. by providing evidence of professional practical experience gained outside of their degree programme, which, in terms of content and scope, corresponds to the basic internship and/or practical semester of a degree programme in the field of engineering, process engineering or similar courses, e.g. at the Technische Hochschule Ingolstadt, provided that the qualification submitted exhibits shortcomings in the practical competences to be demonstrated compared to the qualification requirements set out in paragraph 1, sentence 1, or

b. by providing evidence of practical or theoretical coursework and examination achievements completed in addition to the first degree at a domestic or foreign higher education institution, which, in terms of content and scope, correspond to the requirements of a degree programme in the field of engineering, process engineering or similar degree programmes, e.g. at the Technische Hochschule Ingolstadt, provided that the qualification submitted exhibits deficiencies in the area of the theoretical or practical competences to be demonstrated compared to the qualification requirements set out in paragraph 1, sentence 1.

[4] The Examination Board shall decide on equivalence in accordance with the principles of Article 86 of the Bavarian Higher Education Act (BayHIG). [5] Paragraph 2 shall apply mutatis mutandis.

(5) The requirements set out in paragraph 1, sentence 1, points (a) and (b) must be met cumulatively.

(6) If an applicant is not admitted, they shall be notified of this in writing, stating the reasons.

§ 4
Type and duration of the programme

(1) The programme is delivered as a consecutive programme (full-time study).

(2) [1] The programme comprises a standard duration of three theoretical semesters with a workload of 90 ECTS. [2] The Master's thesis is also to be completed within this standard duration.

(3) [1] The university may also offer its courses supported by virtual teaching methods. [2] Further details are set out in the module handbook.

§ 5
Credit points

[1] Credit points are awarded in accordance with the European Credit Transfer System (ECTS) for passed examinations and course-related assessments per module. [2] As a rule, a maximum of 60 credit points are awarded per academic year. [3] One credit point corresponds to a study load of 25 hours, comprising face-to-face sessions and distance learning phases. [4] The number of credit points is set out in the annex to these study and examination regulations.

§ 6
Modules and Assessment

(1) The modules, their credit hours, the type of courses, the examinations, the assessments undertaken during the course of study, and other relevant provisions are set out in the appendix.

(2) All modules are either compulsory or compulsory-elective modules:

1. Compulsory modules are those modules within the degree programme which all students are required to complete.

2. (1) Compulsoryelective modules are those modules within the degree programme that are offered as alternatives, either individually or in groups. [2] Each student must make a specific selection from among them in accordance with these regulations. [3] The selected modules are treated as compulsory modules.

(3) Selected modules, including examinations and/or assessments, may be conducted in another language in accordance with the provisions set out in the module handbook; in particular, the Master's thesis may, in accordance with the provisions set out in the module handbook, be written in either German or English.

(4) [1] There is no entitlement to the Master's programme being run if there is an insufficient number of qualified students. [2] Similarly, there is no entitlement to all modules being offered in every semester.

§ 4
Module Handbook

(1) [1] To ensure the availability of courses and to inform students, the relevant faculty shall produce a module handbook setting out the structure of the degree programme in detail. [2] When drafting the module handbook, particular attention must be paid to the requirements and guidelines set out in the current guide to module descriptions, with regard to information relevant to accreditation. [3] The module handbook shall be approved by the relevant Faculty Council and published to the university community. [4] New regulations must be published no later than the start of the lecture period of the semester in which the regulations are to be applied for the first time.

(2) The module handbook shall, in particular, contain sufficiently specific regulations and information regarding:

1. the duration of the modules and the frequency with which they are offered,
2. the language of instruction and examination in the individual modules, insofar as this is not in English,
3. the allocation of weekly contact hours per semester, the credit points and the workload per module and academic semester,
4. the teaching methods for the individual modules,
5. further details regarding the nature and scope of module examinations, as well as the evidence of academic achievement and attendance required throughout the course; the prerequisites for enrolling in individual modules in accordance with these study and examination regulations;
6. the recommended prerequisites for individual modules,
7. the intended learning outcomes and the content of the individual modules,
8. the catalogue of elective modules with all the details listed here, provided these are not set out in a separate module handbook; in this case, a reference to the separate module handbook should be included.

§ 8
Master's thesis

(1) In the Master's thesis, students are expected to demonstrate their ability to apply the knowledge acquired during their studies to complex practical problems in an independent academic paper.

(2) [1] The topic of the Master's thesis will be assigned no earlier than at the start of the second semester. [2] Assignment of the Master's thesis topic is subject to the successful completion of coursework and examinations totalling at least 30 ECTS credits.

(3) The duration of the Master's thesis is six months.

(4) In all other respects, the regulations governing the final thesis set out in the APO THI apply.

§ 9
Assessment of performance, overall examination mark

(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 'satisfactory'.

(2) The overall examination mark is calculated by weighting the individual marks in accordance with the appendix.

§ 10
Master's examination certificate

(1) [1] A certificate confirming that the Master's examination has been passed shall be issued in accordance with the model contained in the Annex to the APO THI. [2] The model certificate shall be finalised in accordance with these Study and Examination Regulations.

(2) A Diploma Supplement shall be issued together with the certificate of successful completion of the Master's examination, in accordance with the template contained in the APO THI.

§ 11
Academic degree

(1) Upon successful completion of the Master's examination, the academic degree "Master of Engineering", abbreviated as "M.Eng.", shall be conferred by the Technische Hochschule Ingolstadt.

(2) A certificate confirming the award of the academic degree shall be issued in accordance with the template contained in the Annex to the APO THI.

§ 12
Entry into force

[1] These Study and Examination Regulations shall enter into force on 1 October 2022. [2] They shall apply to all students commencing their studies in this degree programme from the 2022/2023 winter semester onwards.

Drawn up on the basis of the resolution of the Senate of the Technische Hochschule Ingolstadt dated 10 January 2022, the resolution of the University Council dated 22 February 2022, and approved by the President.

Ingolstadt, 4 March 2022

signed

Prof. Dr Walter Schober President

The Articles of Association were filed at Technische Hochschule Ingolstadt on 4 March 2022. The filing was announced by notice on 4 March 2022. The date of announcement is therefore 4 March 2022.