

**Study and Examination
Regulations for the Bachelor's
Degree Programme
B.Eng. Energy Systems and Renewable Energies
at Technische Hochschule Ingolstadt
of 22.02.2021**

Preamble

Based on Art. 13 Para. 1, Art. 58 Para. 1 Clause 1 and Art. 61 Para. 2 and 3 Bavarian Higher Education Act (BayHSchG) dated 23 May 2006 (Gazette of Laws and Ordinances (GVBl) p. 245, BayRS 2210-1-1-WFK), in the amended version, Technische Hochschule Ingolstadt adopts the following statutes:

Preliminary note on language use

For reasons of readability and clarity, female and male persons are referred to in the masculine form in this text. All references to persons always include both genders.

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§ 1

Purpose of the Study and Examination Regulations

These Study and Examination Regulations serve to fulfil and supplement the Framework Examination Regulations for Universities of Applied Science (RaPO) dated 17 October 2001 (Gazette of Laws and Ordinances (GVBl) p. 686, Bay RS 2210-4-1-4-1-WFK) and the General Examination Regulations of Technische Hochschule Ingolstadt (APO THI) dated 25.07.2011 in the amended version.

§ 2

Programme objective

- (1) ¹The Energy Systems and Renewable Energies degree programme aims to provide an education based on scientific knowledge and methods through practice-oriented teaching, which enables students to work independently as engineers in the field of energy systems/energy technology. ²Students will be able to develop, design and implement future-oriented products and services in an international environment with a responsible and sustainable use of resources. ³In addition, the programme promotes personal development, cooperation in international teams in which English is the language of communication and the ability to work in a multicultural environment. ⁴Social and methodological skills are taught in addition to technical skills in order to promote personal development and leadership qualities. ⁵The social skills acquired in internships, seminars or the project enable students to work as part of a team or lead a project group.
- (2) ¹In view of the breadth and diversity of the field of energy systems/energy technology, students are to be enabled to quickly familiarise themselves with one of the numerous fields of application through comprehensive training in the basic subjects. ²In the course of their studies, students learn in detail about different systems, such as building energy systems and industrial supply systems, the various regenerative energy sources, the corresponding energy technology, new concepts for mobility, the networking of all areas from generation to consumption as well as the economic assessment of energy supply concepts.
- (3) International aspects also prepare and enable students to face the increasingly global challenges and demands and also to hold their own in global markets.
- (4) The completed bachelor's programme also provides the basis for further academic qualification in a subsequent master's programme.

§ 3

Standard duration of studies, programme structure

- (1) ¹The standard period of study is seven semesters. ²The programme breaks down into two phases. ³The first study phase comprises two theoretical semesters. ⁴The second study phase comprises four theoretical semesters and one internship semester, which is the fifth semester of study.
- (2) Practical training or previous experience in accordance with § 9 of the THI enrolment regulations is required.

§ 4

Qualifications for the degree programme

- (1) The qualification for the bachelor's programme Energy Systems and Renewable Energies is proven by the general requirements in accordance with the qualification regulations for studies at universities of the Free State of Bavaria and state-recognised non-state universities (Qualification Regulations - QualIV) of 2. 2 007 (GVBI 2007, p. 767, BayRS 2 2 1 0 -1 -1 -3- UK/-WFK) as amended.
- (2) Sufficient knowledge of the English language, proven by a computer-based Test of English as a Foreign Language (TOEFL) with at least 197 points or the internet-based Test of English as a Foreign Language (TOEFL) with at least 71 points or equivalent proof is strongly recommended.

§ 5

Credits

¹Credits are awarded for examinations passed and credit certificates acquired in the course of each module, as well as for internship semesters that have been successfully completed. ²60 credits are awarded on average per academic year under the European Credit Transfer System (ECTS). ³One credit is equivalent to a workload of 25 hours. ⁴In periods of practical work and when preparing the bachelor thesis, one credit point generally corresponds to a study load of 25 hours. ⁵For details of the number of credits, see the annex of the Programme and Examination Regulations.

§ 6

Modules and credit certificates

- (1) Details of the modules and the number of hours they involve, course type, examinations, credit certificates acquired during the programme and other provisions are set out in annex 1 of these regulations.
- (2) All modules are either compulsory or elective compulsory modules:
 1. Compulsory modules are programme modules which must be taken by all students.

2. ¹Elective compulsory modules are programme modules which can be offered individually or alternatively in groups. ²Every student must make a specific choice according to these regulations. ³The modules selected are treated as compulsory modules.
- (3) ¹The degree programme's language of instruction is English. ²Selected modules, including examinations and/or certificates of achievement, can also be held exclusively in German or in both English and German, as specified in more detail in the module handbook. ³If a module is offered in both English and German, the students have the choice between taking the module in German or English.

§ 7

Module handbook

- (1) ¹The faculty responsible compiles a study plan to establish the courses offered and for student's information; this sets out the structure of the degree programme in detail. ²The module handbook is adopted by the Faculty Council and is to be published within the university. ³New regulations must be published no later than the start of the lecture period of the semester in which the regulations enter into force for the first time.
- (2) The module handbook specifically contains regulations and details pertaining to the following:
 1. Breakdown of semester hours per week for each module and semester
 2. A catalogue of elective compulsory modules available including title and number of semester hours per week
 3. More detailed provisions regarding programme credits and attendance certificates
 4. The designation of the compulsory modules as well as the number of hours and the type of course,
 5. The type and organisation of classes
 6. The course type of the individual modules insofar as these are not conclusively specified in annex 1
 7. The programme objectives (learning outcomes) and content of the individual modules
 8. The educational objectives and content of the basic internship and the practical semester as well as their form and organisation
 9. Detailed provisions regarding the type and scope of module examinations, insofar as these are not conclusively specified in annex 1
 10. Detailed provisions regarding courses offered via new media
 11. The language of instruction and examination used in the various modules insofar as this is not English.

- (3) In the study plan, the semester hours per week of each module can be modified with the approval of the Faculty Council in such a way that some of the course hours are replaced by the corresponding units of self-directed learning.
- (4) ¹There is no entitlement to all planned elective compulsory modules being offered in every semester. ²Likewise, there is no entitlement to such courses being offered if there is an insufficient number of participants.

§ 8

Advancement prerequisites

- (1) Only those students who have acquired at least 42 ECTS credits from the modules of the first programme phase are entitled to enter the second phase.
- (2) Only those students who have achieved at least “sufficient” as a grade in all examinations and have acquired all relevant course-related credits of the first study section and have earned at least 20 ECTS credits from the compulsory modules of the second study phase are entitled to enter the internship as part of the practical semester.

§ 9

Internship semester

The internship semester of the second study phase covers a period of 20 weeks and is accompanied by courses.

§ 10

Passing of the bachelor's examination, final examination grade

- (1) The bachelor's examination is passed when,
 1. in all final grades based on examinations and other credit certificates as well as in the bachelor's thesis, at least the “sufficient” grade has been achieved and in other credit certificates the “pass” grade has been achieved and
 2. the internship semester has been successfully completed.
- (2) The final grades from the first and second study phases shall be included in the overall grade of the bachelor's examination according to their weighting in annex 1 to these regulations.

§ 11 Certificate

- (1) A bachelor's degree examination certificate is issued according to the model contained in the amended version of the General Examination Regulations of Technische Hochschule Ingolstadt (APO THI).
- (2) Together with the bachelor's degree examination certificate, a diploma supplement is issued according to the model contained in the General Examination Regulations of Technische Hochschule Ingolstadt.

§ 12 Academic degree

- (1) When a student passes the bachelor's examination, they are awarded the academic degree "Bachelor of Engineering", abbreviated form: "B. Eng".
- (2) A degree certificate is issued according to the model contained in the General Examination Regulations of Technische Hochschule Ingolstadt annex.

§ 13 Entry into force

1 These Study and Examination Regulations become effective as of 1 October 2021.
2They apply to all students who commence studies in the first semester of this programme from the winter semester 2021/2022.

Issued based on the resolution of the Senate of Technische Hochschule Ingolstadt dated 22.02.2021, the resolution of the University Council of 02.03.2021 and approved by the President.

Ingolstadt, 10 March 2021

Prof. Dr. Walter Schober

President

The study and examination regulations were established at Technische Hochschule Ingolstadt on 10.03.2021. This act was published by posting on 10.03.2021. The date of publication is therefore 10.03.2021.