Appendix to the Study and Examination Regulations for the Master's programme in Hydrogen Technologies & Applications at Technische Hochschule Ingolstadt dated 10 January 2022, as amended by the Amendment Regulations of 23 February 2026

Ref. No.	Module	SWS	Type of course	Exams		Weighting for the overall examination mark	ECTS Credits (ECTS)
				Type	Duration in minutes		
1	**Hydrogen Production**	4	SU/Ü	schrP	90	6.3	5
2	**Hydrogen Storage and Transportation**	4	SU/Ü	schrP	90	6.3	5
3	**Hydrogen Economy**	4	SU/Ü	PF		6.3	5
4	**Plant and Equipment Design**	4	SU/Ü	schrP	90	6.3	5
5	**Hydrogen in Energy Technology and Energy Markets**	4	SU/Ü	schrP	90	6.3	5
6	**Individual** Electives1	8	S/SU/Ü/Pr	LN		2 x 6.3	10
7	**Hydrogen Safety and Standardisation**	4	SU/Ü	schrP	90	6.3	5
8	**Systems Engineering**	4	SU/Ü	LN		6.3	5
9	**Start-up Project**	4	S/Pr	Proj		6.3	5
10	**Electrolysis and Fuel Cell Technology**	4	Lect/Sem/Pr	LN		6.3	5
11	**Numerical Methods and Computational Simulation**	4	Lecture/Seminar	thesis	90	6.3	5
12	**Master's Thesis**	-	MA	MA		24.4	30
	Total	**48**				**100**	**90**

Footnotes

1Students must select and register for two modules, each worth 5 ECTS, or one module worth 10 ECTS from the catalogue of individual compulsory-elective modules on offer. A performance assessment must be completed for each module. Further details will be set out by the Faculty Board in the module handbook.

Type of course

S Seminar
SU Seminar-based teaching
Ü Practical
SU/Ü Seminar-style teaching with exercises
Pr Practical training

Examination type

schrP	written examination	The written examination is a 90-minute exam, unless explicitly stated otherwise.
mdlP	Oral examination	The oral examination consists of a 15-minute interview per person, unless otherwise specified.
LN	Assessment	The assessment may take the form of a written examination (schrP), an oral examination (mdlP), a portfolio assessment (PF), a term paper (StA) or a project (Proj). Further details are set out by the Faculty Board in the module handbook.
prP	Practical examination	The student must demonstrate, through 'practical tasks', that they have mastered the practical application of the skills taught. The practical examination lasts 15 minutes unless otherwise specified.
StA	Term paper	A term paper is a written assignment without an oral presentation. A term paper comprises a minimum of 3,000 and a maximum of 6,000 words (approx. 10 to 20 pages).
SA	Seminar paper	A seminar paper is a written assignment accompanied by an oral presentation. A written assignment comprises a minimum of 3,000 and a maximum of 6,000 words (approx. 10 to 20 pages). The oral presentation lasts a total of 15–20 minutes and may also take place during the semester.
Proj	Project	The project work involves group work in which several students work together as a team on a shared assignment and present their findings both orally and in writing. Each student must make an individual contribution to the shared assignment and deliver an oral presentation lasting 15 minutes. The written component should be approximately 5–25 pages in length.
PF	Portfolio assessment	The portfolio assessment is a form of module assessment that specifically pursues the objective of competence-based assessment. This type of assessment consists of a summary of work completed continuously and in various forms as part of a module. Competences are not assessed on the basis of a single piece of work, but on the basis of several pieces of work completed during the semester. 2–6 partial assessments may be offered as a portfolio assessment. A combination of the assessment types described in this document (written, oral, practical, SA, StA, project) may be selected. These partial assessments must be specified in writing in the syllabus at the start of the module.
MA	Master's thesis	Written final thesis for the Master's programme: Maximum duration (= period between registration of the Master's thesis and submission) of 6 months; length 60–80 pages (excluding cover pages, tables of contents and appendices), produced using a word processing programme.