

**Annex 1 to the academic study and examination regulations for the continuing education
master programme M.Eng. Renewable Energies and Hydrogen Technology
at the Technische Hochschule Ingolstadt from 22.01.2024**

No.	Modules	WEEKLY SEMESTER HOURS	Nature of the teaching arrangement	Examinations		Scope		Weighting for the overall examination grade (in %)	ECTS credit points (ECTS)
				Kind	Duration in minutes	written elaboration	Presentation		
1	Renewable Energies and Storage	4	SU/Ü	schrP	90			6,3	5
2	Energy Economics, Markets and Regulations	4	S	SA		8-15 pages	15-20 minutes	6,3	5
3	Power Electronics and Control Engineering for Energy Systems	4	SU/Ü	schrP	90			6,3	5
4	Solar Energy Systems	4	SU/Ü	schrP	90			6,3	5
5	Wind Energy Systems	4	SU/Ü	Proj		8-15 pages	15-20 minutes	6,3	5
6	Hydrogen Storage and Transportation	4	SU/Ü	mdIP	15-20			6,3	5
7	Hydrogen Production	4	SU/Ü	schrP	90			6,3	5
8	Hydrogen Safety, Standardisation and Legal Aspects	4	SU/Ü	schrP	90			6,3	5
9	Hydrogen Utilisation and Sector Coupling	4	SU/Ü	schrP	90			6,3	5
10	System Design and Optimisation	4	SU/Pr	SA		8-15 pages	15-20 minutes	6,3	5
11	Plant and Equipment Design in Hydrogen Technology	4	SU/Ü	schrP	90			6,3	5
12	Project	4	S/Pr	Proj		8-15 pages	15-20 minutes	6,3	5

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13	Master Thesis			MA		60-80 pages		24,4	30
	Total							100	90

Type of lectures

S	Seminar
SU	Lectures
Ü	Exercise
SU/Ü	Lectures with exercises

Type of examination

schrP	written examination	The written examination is a written exam lasting 90 minutes, unless explicitly agreed otherwise.
mdIP	Oral examination	The oral examination is an interview lasting 15-20 minutes per student. The oral examination can be conducted as an individual or group examination.
StA	Student research project	The seminar paper is a term paper without an oral presentation. A term paper comprises a minimum of 3000 to a maximum of 6000 words (written elaboration approx. 8 to 15 pages or presentation document approx. 15-20 slides).
SA	Seminar paper	The seminar paper is a term paper with an oral presentation. A term paper comprises a minimum of 3000 to a maximum of 6000 words (written elaboration approx. 8 to 15 pages or presentation document approx. 15 to 20 slides). The oral presentation has a total length of 15-20 minutes and can also take place during the semester.
Proj	Project work	Project work is joint group work in which several students work on a joint task as a team and present the results orally and in writing. It can also take place during the semester. Each student must contribute individually to the joint task and deliver an oral presentation lasting 15 minutes. The written part has a total length of approx. 8-15 pages per student.
MA	Master's Thesis	Written thesis in the Master's Thesis programme: Maximum processing time (= period between registration of the Master's Thesis and submission) of 9 months / 60-80 pages.