Annex 1 to the academic study and examination regulations for the postgraduate master programme "Automotive Production Engineering & Arificial Intelligence" (M. Eng.) at the Technische Hochschule Ingolstadt from 29/04/2024

No.	Modules	WEEKLY SEMESTER HOURS	Type of lectures	Examinations		Scope		Weighting for the overall examination grade (in %)	Credit points (ECTS points)
				Kind	Duration in minutes	written elaboration	Presentation		
1	**Selected Technical and Economic Competencies**	4	SU/Ü	SA with coll	15-20	10-20 pages	10-20 pages	4	5
2	**Methodological Competencies**	4	SU/Ü	mdlP	15-20			4	5
3	**Self- and Social Competencies (work related)**	4	SU/Ü	mdlP	15-20			4	5
4	**Data Engineering & Databases**	4	SU/Ü	SA with coll	10-20	10-20 pages	10-20 pages	7	5
5	**Digital Factory & Digital Engineering**	4	SU/Ü	StA		10-20 pages		7	5
6	**Data Science & Artificial Intelligence**	4	SU/Ü	schrP	90-120			7	5
7	**Data Science & Artificial Intelligence 2**	4	SU/Ü	Proj	10-20	5-25 pages	10-20 pages	7	5
8	**Modern Manufacturing Technologies**	4	SU/Ü	SA with coll	10-20	10-20 pages	10-20 pages	7	5
9	**Production System & Plant Design**	4	SU/Ü	StA		10-20 pages		7	5
10	**Automation & Equipment**	4	SU/Ü	schrP	90			7	5

11	**Engineering Processes in Automotive Industry**	4	SU/Ü	schrP	90			7	5
12	**Scientific Project**	4	SU/Ü	StA		8-15 pages		7	5
13	**Master Thesis**			MA		60-80 pages		25	30
	Total	**48**						**100**	**90**

Type of lectures

SU	Lectures
Ü	Exercise
SU/Ü	Lectures with exercises

Type of examination

schrP	written examination	The written examination is a written exam lasting 90-120 minutes.
mdlP	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 student research project is a term paper without an oral presentation. A term paper can be written using a word processing programme or as a presentation. A term paper comprises a minimum of 3000 to a maximum of 6000 words (word processing programme approx. 10 to 20 pages or presentation: approx. 15 to 20 pages).
SA	Seminar paper	The seminar paper is a term paper with an oral presentation. The oral presentation lasts a total of 15 minutes per student and can also take place during the semester. A term paper can be written using a word processing programme or as a presentation. It comprises a minimum of 3000 to a maximum of 6000 words (word processing programme: approx. 10 to 20 pages or presentation: approx. 15 to 20 pages).
Proj	Project work	The 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. Each student must contribute individually to the joint assignment and deliver an oral presentation lasting 15 minutes. The written part has a total length of approx. 10-20 pages.
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/scope 60 to 80 pages (excluding cover sheets, lists and appendices) created with a word processing programme. TCW recommendations for the preparation of theses can be found under the following link: Recommendations_form_thesis.pdf
Coll	Colloquium	The colloquium is an oral examination lasting 10-15 minutes, in which the student defends the results of their thesis.