

**1st Amendment to the Study and Examination Regulations  
for the  
Master's Degree Programme  
Mechatronic and Cyber-Physical Systems, M.Eng.  
at  
Deggendorf Institute of Technology**

**of 20 December 2023**

Pursuant to Articles 9, 80 (1), 84 (2) Sentence 1 of the Bavarian University and College Act (BayHSchG) of 5 August 2022 (GVBl. p. 414, BayRS 2210-1-3-WK), in its most recently amended version of Section 3 of the Act adopted on 23 December 2022 (GVBl. p. 709), Deggendorf Institute of Technology hereby enacts the following statutes:

**Section 1 Amendments**

The Study and Examination Regulations for the master's degree programme Mechatronic and Cyber-Physical Systems are amended as follows:

1. Section 5 (1) Sentence 3 will be amended to read:

<sup>3</sup>The examination involves complex tasks on relevant subjects relating to advanced mathematics for engineers and fundamental aspects concerning mechatronics, mechanical engineering, and electronic engineering and their applications, as described in detail in, for example, the Module Handbook for the bachelor's programme in *Mechatronics and Project Management for Digital Production*.

2. Section 9 (4) will be amended to read:

(4) Students wishing to register to write their master's thesis must have attained at least *40 ECTS credits*.

3. Appendix 1 to the Study and Examination Regulations for the master's degree programme Mechatronic and Cyber-Physical Systems is amended as follows:

## Appendix 1:

M.Eng. Mechatronic and Cyber-Physical Systems										
Semester hours per week (SWS)										
Overview – module/course no., module and course description, SWS and ECTS credits			Module	1st sem	2nd sem	3rd sem	ECTS	Weighting of module grade	Form of instruction	Exam format <sup>1)</sup>
Module No.	Course no.	Module/Course								
MMC-01	MMC 1001	Cyber-Physical Systems	6	6			5		SU/U	schrP 90 min
MMC-02	MMC 1002	Advanced Robotics	4	4			5		SU	schrP 90 min
MMC-03	MMC 1003	Autonomous Systems	4	4			5		SU	schrP 90 min
MMC-04	MMC 1004	Case Study Cooperative and Autonomous Systems	4	4			5		U	PoP
MMC-05	MMC 1005	Advanced Modelling and Simulation	4	4			5		SU	PoP
MMC-06	MMC 1006	Case Study Mechatronic System Simulation	4	4			5		Ü	PoP
MMC-07	MMC 2001	Human Machine Interfaces - VR/AR	4		4		5		SU	schrP 90 min
MMC-08	MMC 2002	Case Study VR/AR in System Engineering	4		4		5		U	PoP
MMC-09	MMC 2003	Technologies of Additive Manufacturing	4		4		5		SU	schrP 90 min
MMC-10	MMC 2004	AM Production Processes	4		4		5		SU	schrP 90 min
MMC-11	MMC 2005	Case Study Cyber-Physical Production Systems Using AM	4		4		5		U	PoP
MMC-12	MMC 2006	Functional Safety - Principles and Design	4		4		5		SU/U	schrP 90 min
MMC-13	MMC 3001	Subject-Specific Elective Course (FWP)	4			4	5		SU/Ü	<i>The type of examination conducted for elective (FWP) courses is subject to the currently valid study regulations.</i>
		Master's Module					25			
	MMC 3002	Master's Thesis					20		MA	
	MMC 3003	Master's Seminar	2			2	5		S	mdIP 40min incl. presentation
		<b>Total SWS</b>		<b>26</b>	<b>24</b>	<b>6</b>	<b>54</b>			
		<b>Total ECTS</b>		<b>30</b>	<b>30</b>	<b>30</b>	<b>90</b>			

<sup>1)</sup> See curriculum for further details	
<b>Abbreviations:</b>	
MA	Master's thesis
ECTS	European Credit Transfer System
GMPSchr	End-of module written examination
PStA	Written project assignment
S	Seminar
schrP	Written examination
SU	Seminar-based tuition
SWS	Semester hours per week
U	Exercise
PoP	Portfolio assessment

## Section 2 Coming into effect

The amendments shall enter into force on 15 March 2024.

Issued based on the decision by the Senate of Deggendorf Institute of Technology on 20 December 2023 and the supervisory approval of the Vice-President of Deggendorf Institute of Technology of 15 January 2024.

Signed  
Prof. Waldemar Berg  
Vice-President

The by-laws were recorded at Deggendorf Institute of Technology on 15 January 2024. The recorded by-laws were duly posted on the notice boards on 15 January 2024. Their day of announcement is therefore 15 January 2024.