

**2nd Amendment to the Study and Examination Regulations
for the
Master's Degree Programme
Artificial Intelligence for Smart Sensors / Actuators, M.Eng.
at
Deggendorf Institute of Technology**

of 22 March 2023

Based on Art. 80 (1), 84 (2) Sentence 1 of the Bavarian Higher Education Act (BayHSchG) of 5 August 2022 (GVBl. p. 414, BayRS 2210-1-3-WK), last amended by Section 3 of the Act on 23 December 2022 (GVBl. p. 709), Deggendorf Institute of Technology hereby enacts the following by-laws:

Section 1 Amendments

The Study and Examination Regulations for the master's degree programme Artificial Intelligence for Smart Sensors / Actuators of 15 March 2021, in their most recently amended version of 1 October 2022, are hereby amended as follows:

1. The *Study and Examination Regulations for the master's degree programme Artificial Intelligence for Smart Sensors / Actuators* are amended as follows:

M.Eng. Artificial Intelligence for Smart Sensors / Actuators										
Module no.	Course no.	Module / Course	Module	1st sem	2nd sem	3rd sem	ECTS	Weighting	Form of instruction	Exam format
MSS-01		Intelligent Systems	6				6			GMPschr 120 min
	MSS 1101	Introduction to Artificial Intelligence		2				2	SU/Ü	
	MSS 1102	Machine Learning and Deep Learning		4				4	SU/Ü	
MSS-02		Smart Sensors and Actuators	6				6			GMPschr 120 min
	MSS 1103	Microsystems and Physical Crosscoupling		4				4	SU	
	MSS 1104	Data Acquisition and Control		2				2	SU	
MSS-03		Case Study Sensors and Actuators	4				6			
	MSS 1105	Case Study Sensors and Actuators		4				6	Ü	PoP
MSS-04		Embedded Control Solutions	6				6			GMPschr 120 min
	MSS 1106	Microcontroller Architectures		2				2	SU	
	MSS 1107	Model-Based Function Engineering		4				4	SU	
MSS-05		Case Study Embedded Control Solutions	4				6			
	MSS 1108	Case Study Embedded Control Solutions		4				6	Ü	PoP
MSS-06		Advanced Intelligent Systems	6				6			GMPschr 120 min
	MSS 2101	Big Data			4			4	SU	
	MSS 2102	Computer Vision			2			2	SU	
MSS-07		Case Study Intelligent Systems	4				5			
	MSS 2103	Case Study Intelligent Systems			4			5	Ü	PoP
MSS-08		Autonomous systems	8				8			GMPschr 150 min
	MSS 2104	Algorithms of Autonomous Systems			4			4	SU	
	MSS 2105	Autonomous Robotics			4			4	SU	
MSS-09		Case Study Autonomous Systems	4				6			
	MSS 2106	Case Study Autonomous Systems			4			6	Ü	PoP
MSS-10		Subject-Specific Elective Course (FWP)	4				5			
	MSS 2107	(from subject catalogue)			4			5	SU/Ü	The type of examination conducted for elective (FWP) courses is subject to the currently valid study regulations.
MSS-11		Systems Design	6				6			GMPschr 120 min
	MSS 3101	Systems Design				2		2	SU/Ü	
	MSS 3102	Systems Intercommunication				4		4	SU/Ü	
MSS-12		Master's Module					24			
	MSS 3103	Master's Thesis						22	MA	
	MSS 3104	Master's Seminar						2	S	
		Total SWS		26	26	6	58			
		Total ECTS		30	30	30	90	90		

Section 2 Coming into effect

The amendments shall enter into force on 1 October 2023.

Issued based on the decision by the Senate of Deggendorf Institute of Technology on 22 March 2023 and the supervisory approval of the Vice-President of Deggendorf Institute of Technology of 1 April 2023.

Signed
Prof. Waldemar Berg
Vice-President

The by-laws were recorded at Deggendorf Institute of Technology on 1 April 2023. The recorded by-laws were duly posted on the notice boards on 1 April 2023. Their day of announcement is therefore 1 April 2023.