

Curriculum table for the full-time Master Programme in Artificial Intelligence from 2026/2027 academic year																										
	Subject name	weekly hours	credits	Semesters																Prerequisite						
				1.					2.					3.					4.							
	<b>Fundamentals of Mathematics and Natural Sciences (10–20 credits)</b>	<b>13</b>	<b>15</b>	lec	sem	lab	req	cr	lec	sem	lab	req	cr	lec	sem	lab	req	cr	lec	sem	lab	req	cr		Subject name	
1	Image processing and computer graphics	4	5	2	0	2	m	5																		
2	Applied mathematics	4	4						3	1	0	ex	4													
3	Probability Theory and Mathematical Statistics	3	4						2	1	0	ex	4													
4	Physical education I.	1	1	0	1	0	m	1																		
5	Physical education II.	1	1						0	1	0	m	1													
	<b>Core Studies in Informatics and Artificial Intelligence (20–30 credits)</b>	<b>26</b>	<b>29</b>																							
6	Programming paradigms and data structures*	5	5	3	0	2	ex	5																		
7	Modern Operational systems	5	5	2	0	3	ex	5																		
8	Introduction to machine learning	4	5						1	1	2	ex	5													
9	Cloud based IoT and Big Data Platforms	4	4						2	0	2	m	4													
10	Databases and Big Data technologies	4	5	2	0	2	m	5																		
11	Deep learning	4	5											1	1	2	ex	5								Introduction to machine learning
	<b>Studies Developing Specialized Competences Related to Artificial Intelligence</b>	<b>34</b>	<b>40</b>																							
12	Natural Language Processing with Large Language Models	4	5											2	0	2	m	5								Introduction to machine learning
13	Artificial Intelligence Applications in Robotics	4	5											1	0	3	m	5								Image processing and computer graphics
14	Artificial Intelligence Development and Operations (AI DevOps)	4	5	1	1	2	m	5																		
15	Reinforcement learning	5	4						2	0	3	m	4													
16	Modern Artificial Intelligence Technologies	4	4																2	0	2	m	4			Deep learning
17	Explainable Artificial Intelligence (XAI)	3	4						2	0	1	m	4													
18	Recent areas of artificial intelligence	4	5											2	0	2	ex	5								
19	Ethical Use of Artificial Intelligence and Related Legal Aspects	3	4	2	1	0	ex	4																		
20	Human–Computer Interaction and Cognitive Systems	3	4						2	0	1	ex	4													
	<b>Thesis work</b>	<b>0</b>	<b>30</b>																							
21	Thesis work I.		10															m	10							
22	Thesis work II.		20																	m	20					Thesis work I.
	<b>Criteria subject</b>	<b>1</b>	<b>0</b>																							
23	Mentoring	1		0	1	0	s	0																		
	<b>Elective courses (min. 6 credits)</b>	<b>0</b>	<b>6</b>																							
24	Elective course I.	0	3																							3
25	Elective course II.	0	3																							3

Exam (ex)				7			8			5			2												
Midterm (m)					3			4			2			0											
Signature (s)					4			4			3			2											

Summary		12	4	11	0	30	14	4	9	0	30	6	1	9	0	30	2	0	2	0	30				
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