

Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Ливанов Дмитрий Викторович
Должность: Ректор
Дата подписания: 13.07.2025 11:28:56
Уникальный программный ключ:
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APPROVED

Vice Rector for Academic Affairs

Ministry of Science and Higher Education of the Russian Federation
The Federal State Autonomous Educational Institution of Higher Education
"Moscow Institute of Physics and Technology (National Research University)"

ACADEMIC PLAN

Qualification Master

Year of enrollment 2025

Statutory duration of a study course 2 years

AGREED

Director for Digital Education

Domain of study: 01.04.02 - Applied Mathematics and Informatics

Orientation (specialty): Modern State of Artificial Intelligence/Современные
методы искусственного интеллекта

"Pusk" Online and Supplementary Education Centre

Chair of Machine Learning and Digital Humanities

L.S.

A. A. Voronov

D. I. Grits

№ in order	Name of disciplines, practices, State Final Examination	Form of final control by semesters								Hours								Coursework and test papers	h o u r s i n w e e k								TOTAL HOURS	Credit points			
		Examinations				Graded test ("." - simple)				State Examination	Laboratory classes	of them							Hours for preparation and examinations	Distribution by courses and semesters								Total	Basic	Elective	
												Total classroom sessions	Lectons	Laboratory classes	Practical lessons, seminars, exercises, etc.	Practice	Independent study			1 course				2 course							
																				1 sem. 15 weeks	2 sem. 15 weeks	3 sem. 15 weeks	4 sem. 15 weeks	1 sem. 15 weeks	2 sem. 15 weeks	3 sem. 15 weeks					4 sem. 15 weeks
		1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20		21	22		
M.1	Courses (Modules)/Дисциплины (модули)								2 055	1 035	465		570		1 020	330	10						2 385	53	9	44					
M.1.1	Foreign Languages/Иностранные языки								180	120			120		60		4						180	4	4						
						-1			90	60			60		30		2		4				90	2	2						
							2		90	60			60		30		2				4		90	2	2						
	Humanitarian and Social Cycle/Гуманитарный и социальный цикл								165	60	60				105	60	4						225	5	5						
M.1.2	Search and Verification of Information for Research and its Expertise/Поиск и верификация научной информации	1							60	30	30				30	30	2	2					90	2	2						
M.1.3	Everyday Economic Philosophy: A Simple View on (Un)Complicated Issues/Экономическая философия на каждый день: просто о (не)сложном		2						105	30	30				75	30	2		2				135	3	3						
	Core science/Профильные дисциплины								1 665	840	405		435		825	270	2						1 935	43		43					
M.1.B.1	Algorithms and Computational Complexity/Алгоритмы и сложность вычислений	1							105	60	30		30		45	30		2	2				135	3		3					
M.1.B.2	Math Basics for Artificial Intelligence/Математические основы искусственного интеллекта	1							150	60	30		30		90	30		2	2				180	4		4					
M.1.B.3	Optimization Methods/Методы оптимизации	1							105	60	30		30		45	30		2	2				135	3		3					
M.1.B.4	Probability Theory and Applications/Теория вероятностей	1							105	60	30		30		45	30		2	2				135	3		3					
M.1.B.5	Software Development and Data Engineering/Разработка ПО и системы хранения данных								225	105	60		45		120								225	5		5					
						1			90	45	30		15		45			2	1				90	2		2					
							2		135	60	30		30		75					2	2		135	3		3					
M.1.B.6	Introduction to the Recommendation Systems/Введение в рекомендательные системы						2		45	15			15		30					1			45	1		1					
M.1.B.7	Machine Learning with Graphs/Машинное обучение на графах						2		90	45	15		30		45		2		1	2			90	2		2					
M.1.B.8	Distributed and Cloud Computing/Распределенные и облачные вычисления			3					105	60	30		30		45	30					2	2	135	3		3					
M.1.B.9	Statistical Data Analysis/Математическая статистика и анализ данных		2						105	60	30		30		45	30				2	2		135	3		3					
M.1.B.10	Machine Learning/Машинное обучение						2		90	45	15		30		45				1	2			90	2		2					
M.1.B.11	Computer Vision/Компьютерное зрение			3					105	60	30		30		45	30					2	2	135	3		3					
M.1.B.12	Reinforcement Learning/Обучение с подкреплением			3					150	75	45		30		75	30					3	2	180	4		4					

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Head of Academic Management Office

I. R. Garayshina