

Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Ливанов Дмитрий Викторович
Должность: Ректор
Дата подписания: 10.11.2023 14:54:25
APPROVED
Уникальный программный ключ:
Vice Rector for Academic Affairs
c6d909c49c1d2134fa3a0156c4eaa51e7252a3a2
A. A. Voronov

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)”

Qualification Master

Year of enrollment 2023

Statutory duration of a study course 2 years

ACADEMIC PLAN

Domain of study: 01.04.02 - Applied Mathematics and Informatics
Orientation (specialty): Applied Data Analysis in Social Studies/Прикладной анализ данных в социальных науках
Phystech School of Applied Mathematics and Informatics
Chair of Machine Learning and Digital Humanities

AGREED
Head of the Phystech School of Applied Mathematics and Informatics A. M. Raygorodskiy

№ in order	Name of disciplines, practices, State Final Examination	Form of final control by semesters				State Examination	Hours							Coursework and test papers	hours in week								TOTAL HOURS	Credit points											
		Examination	Graded test ("н" - simple)				Laboratory classes	of them					Hours for preparation and examinations		Distribution by courses and semesters									Total	Basic	Elective									
			1	2	3			4	Total classroom sessions	Lectons	Laboratory classes	Practical lessons, seminars, exercises, etc.			Practice	Independent study	1 course				2 course														
		1	2	3	4		1	2	3	4	1	2	3		4	1	2	3	4	1	2	3		4	1	2	3	4	19	20	21	22			
		3		4			6		7		8		9		10		11		12		13			14		15		16		17		18			
M.1	Courses (Modules)/Дисциплины (модули)						2	130	1	065	495		570		1	065	210	10													2	340	52	9	43
M.1.1	Foreign Languages/Иностранные языки						180	120					120		60		4													180	4	4			
							90	60					60		30		2			4									90	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	Global Trends and Methods for Strategic Development in the Era of Uncertainty/Глобальные тренды и методы стратегического развития в эпоху неопределенности	1					60	30	30						30	30	2	2											90	2	2				
M.1.3	Digital Transformation: Social and Economic Challenges/Цифровая трансформация: социальные и экономические вызовы	2					105	30	30						75	30	2			2									135	3	3				
	Core science/Профильные дисциплины						1	740	870	435			435		870	150	2												1	890	42		42		
M.1.B.1	Introduction to ESG Agenda. Part 1/Введение в ESG повестку. Часть 1					1	180	75	30				45		105			2		3									180	4		4			
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	Probability Theory and Applications/Теория вероятностей	1					105	60	30				30		45	30		2		2									135	3		3			
M.1.B.4	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.5	Introduction to Graph Theory/Введение в теорию графов					1	90	60	30				30		30			2		2									90	2		2			
M.1.B.6	Combinatorics/Комбинаторика					-1	90	60	60						30			4											90	2		2			
M.1.B.7	Advanced Graph Theory/Современная теория графов	2					105	60	30				30		45	30					2	2						135	3		3				
M.1.B.8	Introduction to ESG Agenda. Part 2/Введение в ESG повестку. Часть 2	2					105	60	30				30		45	30					2	2						135	3		3				
M.1.B.9	Machine Learning with Graphs/Машинное обучение на графах					2	90	45	15				30		45			2			1	2						90	2		2				
M.1.B.10	Machine Learning/Машинное обучение					2	90	45	15				30		45						1	2						90	2		2				
M.1.B.11	Statistical Data Analysis/Математическая статистика и анализ данных	2					105	60	30				30		45	30					2	2						135	3		3				
M.1.B.12	Managing Organisation/Основы управления					3	135	60	30				30		75								2	2				135	3		3				
M.1.B.13	Robotic Process Automation/Роботизация процессов					3	135	60	30				30		75								2	2				135	3		3				
M.1.B.14	Strategic Management for Leadership in ML/Стратегический менеджмент					3	135	60	15				45		75								1	3				135	3		3				

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		Examination		Graded test ("-" - simple)		State Examination	Laboratory classes	of them						Hours for preparation and examinations	Coursework and test papers	Distribution by courses and semesters								TOTAL		Total	Basic	Elective					
		1	2	3	4			1	2	3	4	Laboratory classes	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	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22									
M.1.B.15	Scientific Workshop: Modern Topics in Applied Mathematics and Computer Science/Научный семинар: Современные проблемы прикладной математики и информатики				1				45	15			15		30				1							45	1		1				
M.2	Practice/Практика								2 715				2 715		30												2 745	61	61				
M.2.1	Industrial Practice/Производственная практика								2 715				2 715		30												2 745	61	61				
M.2.1.1	Personal Research Project/Научно-исследовательская работа								2 715				2 715		30												2 745	61	61				
					2				765				765														765	17	17				
				3					825				825		30													855	19	19			
									1 125				1 125															1 125	25	25			
M.3	State Final Certification/Государственная итоговая аттестация								285					285	30													315	7	7			
M.3.1	Performance of and Defence of Graduation Thesis/Выполнение и защита выпускной квалификационной								285					285	30													315	7	7			
TOTAL:		Number of examinations and pass/fail tests				Obl.	Distribution of hours by type of lesson											Distribution of classroom hours per week by semester								Total hours	Total number of credits						
		Examinations		Pass/Fail tests			ECs.																										
	Fixed (without State Final Examination)	3	4	1			6	5	3	1	5	130	1	065	495		570	2	715	1	350	270	10	31	28		12		5	400	120	77	43
	Extracurriculars																																
State Final Examination				1																													
							Distribution of hours of contact work by years and semesters											Distribution of credits by years and semesters				Total hours											
							1 002								250				1 252														
							513		489		216		34		60					60													
							22		38		28		32																				

И. о. начальника учебного управления Т. Ф. Artemenko