

Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Ливанов Дмитрий Викторович
Должность: Ректор
Дата подписания: 01.07.2025 16:19:55
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

Head of the Phystech School of Applied Mathematics and
Informatics

Domain of study: 01.04.02 - Applied Mathematics and Informatics

Orientation (specialty): Advanced Methods of Modern

Combinatorics/Продвинутые методы современной комбинаторики

Phystech School of Applied Mathematics and Informatics

Chair of Discrete Mathematics

A. M. Raygorodskiy

L.S.

A. A. Voronov

Specialty: Advanced Combinatorics/Продвинутая комбинаторика

№ 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	Lectiоns	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	2	3	4	1	2	3	4	5	6	7	8		9	10	11	12	13	14			lect.	lab.	sem.	lect.	lab.	sem.	lect.	lab.				
M.1	Courses (Modules)/Дисциплины (модули)								2 010	1 110	465		645		900	330	10										2 340	52	9	43				
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					
	Humanitarian and Social Cycle/Гуманитарный и социальный цикл					2			90	60			60		30		2				4						90	2	2					
									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								1 620	915	405		510		705	270	2										1 890	42		42				
M.1.B.1	Discrete Structures/Дискретные структуры	1							105	60	30		30		45	30		2	2								135	3		3				
M.1.B.2	Theory of Probability/Теория вероятностей					1			90	60	30		30		30			2	2								90	2		2				
M.1.B.3	Linear Algebra/Линейная алгебра					1			90	60	30		30		30			2	2								90	2		2				
M.1.B.4	Introduction to Discrete Geometry/Введение в дискретную геометрию								195	120	60		60		75	30											225	5		5				
						1			90	60	30		30		30			2	2								90	2		2				
			2						105	60	30		30		45	30				2	2						135	3		3				
M.1.B.5	Probability Theory in Practical Problems/Теория вероятностей в практических задачах						2		90	45	15		30		45					1	2						90	2		2				
M.1.B.6	Extremal Combinatorics/Экстремальная комбинаторика		2						105	45	15		30		60	30	2			1	2						135	3		3				
M.1.B.7	Random Graphs. Part 1/Случайные графы. Часть 1						2		135	90	45		45		45					3	3						135	3		3				
M.1.B.8	Random Graphs. Part 2/Случайные графы. Часть 2			3					150	75	45		30		75	30							3	2			180	4		4				
M.1.B.9	Advanced Graph Theory/Современная теория графов		2						105	60	30		30		45	30				2	2						135	3		3				
M.1.B.10	Matrix Algebra Methods and Applications to Computer Science and Engineering/Методы матричной алгебры и приложения к информатике и инженерии		2						105	60	15		45		45	30					1	3					135	3		3				
M.1.B.11	Game Theory/Теория игр			3					150	75	30		45		75	30							2	3			180	4		4				
M.1.B.12	Additive Combinatorics/Аддитивная комбинаторика			3					105	60	15		45		45	30							1	3			135	3		3				
M.1.B.13	Complex Networks/Сложные сети						3		90	45	15		30		45								1	2			90	2		2				
M.1.B.14	Applied Discrete Optimization/Прикладная дискретная оптимизация			3					105	60	30		30		45	30									2	2		135	3		3			

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Head of Academic Management Office

I. R. Garayshina