

Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Ливанов Дмитрий Викторович
Должность: Ректор
Дата подписания: 15.07.2025 22:17:29
Уникальный идентификатор: c6d909c49c1d2034fa3a0156c4ea51e7232a3a2

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 Bachelor

Year of enrollment 2025

Statutory duration of a study course 4 years

Domain of study: 09.03.01 - Information Science and Computer Engineering

Orientation (specialty): Computer Science/Информатика

Phystech School of Applied Mathematics and Informatics

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											Hours								Coursework and test papers	hours in week																TOTAL HOURS	Credit points																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Б.1.9	Health Concepts & Strategies/Физическая культура								-1															90	60				60		30				4										90	2	2			
Б.1.10	Applied Physical Education (Optional Sports)/Прикладная физическая культура (виды спорта по выбору)								-2	-3	-4	-5	-6											330	300				300		30					4		4		4						330				
Б.1.11	Life Safety/Безопасность жизнедеятельности								1															45	30	30					15			2											45	1	1			
Б.1.12	Algebra/Алгебра																						450	180	90			90		270	90		3												540	12	12			
Б.1.12	Geometry/Геометрия	1																					150	60	30			30		90	30		2	2											180	4	4			
Б.1.13	Analytic Geometry/Аналитическая геометрия		2																				150	60	30			30		90	30		3			2	2								180	4	4			
Б.1.14	Linear Algebra/Линейная алгебра			3																			150	60	30			30		90	30					2	2								180	4	4			
	Theory of Probability and Mathematical Statistics/Теория вероятностей и математическая статистика																																																	
Б.1.15	Probability Theory/Теория вероятностей																						345	180	90			90		165	60														405	9	9			
																							210	120	60			60		90	60														270	6	6			
				4																			105	60	30			30		45	30														135	3	3			
					5																		105	60	30			30		45	30														135	3	3			
Б.1.16	Statistics/Статистика																						135	60	30			30		75															135	3	3			
	Discrete Mathematics/Дискретная математика																						285	120	60			60		165	30		2												315	7	7			
Б.1.17	Discrete Mathematics/Дискретная математика		2																				150	60	30			30		90	30		2			2	2								180	4	4			
Б.1.18	Computability and Complexity/Вычислимость и вычислительная сложность																						135	60	30			30		75															135	3	3			
	Computational Mathematics/Вычислительная математика																						285	120	60			60		165	30		2												315	7	7			
Б.1.19	Introduction to Optimization/Введение в Convex Optimization/Выпуклая оптимизация																						135	60	30			30		75			2												135	3	3			
Б.1.20						6																	150	60	30			30		90	30														180	4	4			
	Algorithms & Data Structures & Programming Languages/Алгоритмы и структуры данных и языки программирования																						540	180	90	90				360															540	12	12			
Б.1.21	Foundations of Programming I/Основы программирования I								1														180	60	30	30				120			2	2												180	4	4		
Б.1.22	Foundations of Programming II/Основы программирования II								2														180	60	30	30				120					2	2										180	4	4		
Б.1.23	Data Structures and Algorithms I/Структуры данных и алгоритмы I								2														180	60	30	30				120					2	2										180	4	4		
	Computer Architecture and Operating Systems/Архитектура компьютеров и операционные системы																						360	120	60	60				240															360	8	8			
Б.1.24	Operating Systems I/Операционные системы I								3														180	60	30	30				120					2	2										180	4	4		
Б.1.25	Operating Systems II/Операционные системы II									4													180	60	30	30				120								2	2							180	4	4		
	Department Courses/Факультетские дисциплины																						2 730	1 005	405	330	270		1 725	60		10													2 790	62	4	58		
Б.1.B.2	Mathematical Thinking/Математическое мышление								1														135	60	30			30		75			2	2	2											135	3		3	

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Б.1.B.3	Fundamentals of Financial and Economic Analysis and Planning/Основы финансово-экономического анализа и планирования																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

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																		Total classroom sessions	Lectons	Laboratory classes	Practical lessons, seminars, exercises, etc.	Practice	Independent study		1 course				2 course				3 course				4 course											
		1 sem. 15 weeks	2 sem. 15 weeks	3 sem. 15 weeks	4 sem. 15 weeks	5 sem. 15 weeks	6 sem. 15 weeks	7 sem. 15 weeks	8 sem. 15 weeks																																							
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Б.2.2	Educational Practice/Учебная практика																																		360	8		8										
Б.2.2.В.1	Research Practice/Научно-исследовательская практика																																		360	8		8										
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Б.3	State Final Certification/Государственная итоговая аттестация																																			315	9	9										
Б.3.1	Preparation for and Taking State Examination in Mathematics/Подготовка к сдаче и сдача государственного экзамена по математике																																			60	2	2										
Б.3.2	Preparation for and Taking State Examination in Informatics and Computer Engineering/Подготовка к сдаче и сдача государственного экзамена по информатике и вычислительной технике																																			60	2	2										
Б.3.3	Performance of and Defence of Graduation Thesis/Выполнение и защита выпускной квалификационной работы																																			195	5	5										
TOTAL:		Number of examinations and pass/fail tests															Obl. ECs.	Distribution of hours by type of lesson										57	Distribution of classroom hours per week by semester																11 130	Total number of credits		
	Examinations								Pass/Fail tests																																							
	2	4	2	2	3	3		2	5	3	6	7	6	5	5	5																																
	Fixed (without State Final Examination)																																															
	Physical education																																															
	Extracurriculars																																															
	State Final Examination																																															
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1 108																1 251				1 154				619																								
521				587				609				642				587				567				268				351																				
Distribution of credits by years and semesters																																																
52				28				29				30				32				31				31				35																				

Head of Academic Management Office I. R. Garayshina