



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.03.04 Applied Mathematics

Educational Programme "Applied Mathematics"

Implementing unit: Tikhonov Moscow Institute of Electronics and Mathematics, HSE - Moscow

1 st, 2024/2025 academic year

APPROVED

19.04.2024

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2024/2025 - 2027/2028

Mode of Study: Full Time

Degree: Bachelor's degree

Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
							1	2	3	4	
Degree Programme				60,00	2 480	1 334	253	251	444	386	
Data Culture						2			2		
1	Independent Digital Literacy Test	C	отдел развития цифровых компетенций			2			2A		Online Course
Major				48,00	1 824	1 032	168	178	374	312	
Core Professional Block (Major)				39,00	1 482	950	162	170	342	276	
1	Algebra	C	Department of Applied Mathematics	5,00	190	120	40	40A	40A		
2	Algorithmization and Programming	C	Department of Applied Mathematics	6,00	228	130	28	28A	44	30A	Online Course
3	Discrete Mathematics	C	Department of Applied Mathematics	4,00	152	80			40	40A	
4	Linear Algebra and Analytical Geometry	C	Department of Applied Mathematics	8,00	304	204	38	46A	60	60A	
5	Calculus	C	Department of Applied Mathematics	11,00	418	280	56	56A	88	80A	
6	Physics	C	School of Electronic Engineering	5,00	190	136			70A	66A	
Elective Professional Block (Major)				9,00	342	82	6	8	32	36	
Дисциплины по выбору ОП				3,00	114	42	6	8	14	14	
1	Computer Practicum 1	C	Department of Applied Mathematics	3,00	114	42	6	8A	14	14A	
Научно-исследовательский/Проектный семинар				6,00	228	40			18	22	
1	Project Seminar	C	Department of Applied Mathematics	3,00	114	24			12	12A	Online Course
2	Career-oriented Seminar "Introduction to Profession"	C	Department of Applied Mathematics	3,00	114	16			6	10A	Online Course
English						2				2	

Optional Courses											
1	English	O		8,00	304	128	20	28A	40	40A	Foreign language, Credits only to the cumulative rating
Examinations						2				2	
1	English Language Integrative Exam	C	School of Foreign Languages			2				2A	Foreign language
General Courses				10,00	580	294	85	73	68	68	
Optional General Courses				9,00	342	132	48	36	24	24	
1	Russian History	C	School of History	4,00	152	76	12	16A	24	24A	Online Course
2	Foundations of Russian Statehood	C	School of History	2,00	76	26	26A				Online Course
3	Legal Literacy	C	департамент теории права и сравнительного правоведения	3,00	114	30	10	20A			Online Course
Core General Courses				1,00	238	162	37	37	44	44	
1	Safe Living Basics	C	центр поддержки студенческих инициатив	1,00	38	18	9	9A			Online Course
2	Physical Training	C	Department of Physical Training		200	144	28	28	44	44A	
Internship				2,00	76	4				4	
Research Internship						2				2	
1	Calculus	C				2				2A	
Project Internship				2,00	76	2				2	
1	Project (1st)	C		2,00	76	2				2A	

Curriculum agreed:

Academic Supervisor	Presnova A.P.	09.04.2024
Dean	KROUK E.A.	09.04.2024
Head of Centre for Educational Model Design	LEPESHKIN I.A.	18.04.2024

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O