National Research University Higher School of Economics (HSE)

Length of Programme: 4 years

Mode of Study: Full Time

1

Geometry

Programming

Degree: Bachelor's degree

Years of Study: 2021/2022 - 2024/2025

Curriculum

Field of study 01.03.04 Applied Mathematics Educational Programme "Applied Mathematics"

Specialization: "Applied methods of stochastic analysis",
"Mathematical and computer methods for modern technologies",
"Mathematical modelling, control and information processing"
Tikhonov Moscow Institute of Electronics and Mathematics,

HSE - Moscow 1 st, 2021/2022 academic year APPROVED by Vice Rector

ROSHCHIN Y.S.

04.05.2021

Number of Students: 150 Number of Groups: 5

						А	llocation of C	Contact Hour			
Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	1	2	3	4	Additional Information
	Degree Progamme			60	2 584	1 315	256	266	407	386	
	Data Culture			3			3				
1	Independent Digital Competence Assessment. Digital Literacy	С	центр поддержки и мониторинга образовательных программ			3			3A		
	Major	47	1 786	926	158	174	308	286			
	Core Professional Block (Major)	44	1 672	910	158	174	302	276			
	Subject Areas	44	1 672	910	158	174	302	276			
	Natural Sciences and Engineering				266	136			70	66	
1	Physics	С	School of Electronic Engineering	7	266	136			70A	66A	
	Algebra and Discrete Mathematics				304	160	36	44	40	40	
1	Algebra	С	Department of Applied Mathematics	4	152	80	36	44A			
2	Discrete Mathematics	С	Department of Applied Mathematics	4	152	80			40	40A	
	Real, Complex and Functional Ana	13	494	280	56	56	88	80			
1	Calculus	С	Department of Applied Mathematics	13	494	280	56	56A	88	80A	
2	Calculus	С									
	Linear Algebra and Analytical Geometry				380	204	38	46	60	60	
	Linear Algebra and Analytical	С	Department of Applied	10	380	204	38	46A	60	60A	

228

28

28

44

30

130

Mathematics

1	Algorithmization and Programming	С	Department of Applied Mathematics	6	228	130	28	28A	44	30A	
	Elective Professional Block (Major)			3	114	16			6	10	
	Научно-исследовательский/Прое	3	114	16			6	10			
1	Career-oriented Seminar "Introduction to Profession"	С	Department of Applied Mathematics	3	114	16			6	10A	
	English				304	146	24	32	44	46	
	Optional Courses				304	144	24	32	44	44	
1	English	0		8	304	144	24	32A	44	44A	Foreign language, Credits only to the cumulative rating
	Examinations					2				2	
1	English Language Integrative Exam	С	School of Foreign Languages			2				2A	Foreign language
	General Courses				190	192	68	52	36	36	
	Optional General Courses				152	30	14	16			
1	History	С	Department of Humanities	4	152	30	14	16A			Online Course
	Core General Courses				38	162	54	36	36	36	
1	Safe Living Basics	С	центр поддержки студенческих инициатив	1	38	18	18A				Online Course
2	Physical Training	С	Department of Physical Training			144	36	36	36	36A	
	Internship				304	48	6	8	16	18	
	Project Internship				304	48	6	8	16	18	
1	"Python in science and engineering" Computer practice	С	Department of Applied Mathematics	3	114	12			6	6A	Online Course
2	Computer Practicum 1	С	Department of Applied Mathematics	3	114	34	6	8	10	10A	
3	Проект 1 курс	Е		2	76	2				2A	

30.04.2021

Academic Supervisor

BUROVSKIY E.A. 30.03.2021

Dean KROUK E.A. 31.03.2021

Head of Degree Programmes

Head of Degree Programmes
Development Office MAMONOVA M.A.

* Subject type:

Compulsory course C
Elective course E
Optional course O