



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

2 nd, 2024/2025 academic year

APPROVED

19.04.2024

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2023/2024 - 2026/2027

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	2 442	1 242	298	308	318	318	
Data Culture						6		2		4	
1	External Examinations on Digital Skills. Entry-level	C	отдел развития цифровых компетенций			2		2A			
2	External Examinations on Digital Skills. Intermediate Level	C	отдел развития цифровых компетенций			2				2A	
3	Independent Programming Test. Advanced Level	C	отдел развития цифровых компетенций			2				2A	Online Course
Major				46,00	1 748	938	224	232	244	238	
Core Professional Block (Major)				37,00	1 406	810	170	180	232	228	
1	Algorithmization and Programming	C	Department of Applied Mathematics	7,00	266	154	44A	44	66A		
2	Differential Equations	C	Department of Applied Mathematics	4,00	152	78	38	40A			
3	Calculus	C	Department of Applied Mathematics	4,00	152	60	28	32A			
4	Theoretical Mechanics	C	Department of Applied Mathematics	4,00	152	86			42A	44A	
5	Probability Theory and Mathematical Statistics	C	Department of Applied Mathematics	6,00	228	148	28	34A	46	40A	
6	Theory of Complex Functions	C	Department of Applied Mathematics	4,00	152	100			48	52A	
7	Physics	C	School of Electronic Engineering	4,00	152	72	36	36A			
8	Functional Analysis	C	Department of Applied Mathematics	4,00	152	80			40	40A	
Elective Professional Block (Major)				9,00	342	128	54	52	12	10	
Дисциплины по выбору ОП				3,00	114	32	16	16			

1	Computer Practicum 2	C	Department of Applied Mathematics	3,00	114	32	16	16A			
Научно-исследовательский/Проектный семинар				6,00	228	96	38	36	12	10	
1	Research seminar "Additional chapters of algebra"	C	Department of Applied Mathematics	3,00	114	56	28	28A			
2	Research Seminar "Modern Computer Calculation Tools"	C	Department of Applied Mathematics	3,00	114	40	10	8	12	10A	Foreign language
Minor				10,00	380	152	38	38	38	38	
1	Minor	E		10,00	380	152	38	38A	38	38A	
English											
Optional Courses											
1	English	O		6,00	228	100	32	28	40A		Foreign language, Credits only to the cumulative rating
General Courses				1,00	200	144	36	36	36	36	
Core General Courses				1,00	200	144	36	36	36	36	
1	Physical Training	C	Department of Physical Training	1,00	200	144	28	28	44	44A	
Internship				3,00	114	2				2	
Project Internship				3,00	114	2				2	
1	Project (2nd)	C		3,00	114	2				2A	

Curriculum agreed:

Academic Supervisor Presnova A.P. 28.03.2024

Dean KROUK E.A. 28.03.2024

Head of Centre for Educational Model Design LEPESHKIN I.A. 18.04.2024

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O