



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
 3 rd, 2022/2023 academic year

APPROVED
 21.04.2022
 Vice Rector
 ROSHCHIN S.Y.
 Signed with EDS

Length of Programme: 4 years
 Years of Study: 2020/2021 - 2023/2024
 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	2 280	799	166	170	237	338	
Data Culture				3,00	114	40				40	
1	Databases	C	Department of Applied Mathematics	3,00	114	40				40A	
Major				35,00	1 330	568	120	124	188	248	
Core Professional Block (Major)				24,00	912	434	120	120	116	78	
Subject Areas				24,00	912	434	120	120	116	78	
Algorithmisation				8,00	304	130	28	28	36	38	
1	Operating Systems	C	Department of Applied Mathematics	4,00	152	56	28A	28A			Online Course
2	Numerical Methods	C	Department of Applied Mathematics	4,00	152	74			36	38A	Online Course, Foreign language
Real, Complex and Functional Analysis				11,00	418	208	64	64	40	40	
1	Optimization Methods	C	Department of Applied Mathematics	4,00	152	72	36	36A			
2	Equations of Mathematical Physics	C	Department of Applied Mathematics	4,00	152	80			40	40A	
3	Functional Analysis	C	Department of Applied Mathematics	3,00	114	56	28	28A			
Probability Theory and Mathematical Statistics				5,00	190	96	28	28	40		
1	Theory of Stochastic Processes	C	Department of Applied Mathematics	5,00	190	96	28	28A	40A		
Elective Professional Block (Major)				11,00	418	134		4	72	170	
Блоки дисциплин по выбору				4,00	152	56				168	
"Математические и компьютерные методы для современных технологий"				4,00	152	56				56	
1	Elective Courses	E		4,00	152	56				56A	

	"Математическое моделирование, управление и обработка информации"			4,00	152	56			56	
1	Elective Courses	E		4,00	152	56			56A	
	"Прикладные методы стохастического анализа"			4,00	152	56			56	
1	Elective Courses	E		4,00	152	56			56A	
	Дисциплина по выбору (1 из 6)			4,00	152	56			56	
1	Elective Courses	E		4,00	152	56			56A	
	Научно-исследовательский/Проектный семинар			3,00	114	22		4	16	2
1	International Research and Development Projects	C	Department of Applied Mathematics	3,00	114	22		4	16	2A Foreign language
	Minor			10,00	380	152	38	38	38	38
1	Minor	C		10,00	380	152	38	38A	38	38A
	English					3			3	
	Examinations					3			3	
1	Independent English Exam	C	School of Foreign Languages			3			3A	Foreign language
	Internship			12,00	456	36	8	8	8	12
	Project Internship			9,00	342	36	8	8	8	12
1	Исследовательский или прикладной проект	E		5,00	190	2				2A
2	Computer Practicum 3	C	Department of Applied Mathematics	4,00	152	34	8	8A	8	10A
	Professional Internship			3,00	114					
1	Work Experience Internship	C		3,00	114					

Curriculum agreed:

Academic Supervisor	MANITA L.A.	15.04.2022
Dean	KROUK E.A.	16.04.2022
Head of Degree Programmes Development Office	MAMONOVA M.A.	19.04.2022

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O