



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
 4 th, 2023/2024 academic year

APPROVED
 16.03.2023
 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	1 368	182	180	174	104	4	
	Major			32,00	304	84	126	138	100		
	Core Professional Block (Major)			8,00	304	84	56	28			
	Subject Areas			8,00	304	84	56	28			
	Algorithmisation			3,00	114	28	28				
1	Numerical Methods	C	Department of Applied Mathematics	3,00	114	28	28A				Online Course, Foreign language
	Real, Complex and Functional Analysis			5,00	190	56	28	28			
1	Control Theory	C	Department of Applied Mathematics	5,00	190	56	28	28A			
	Elective Professional Block (Major)			24,00			70	110	100		
	Блоки дисциплин по выбору			24,00		280	70	110	100		
	"Математические и компьютерные методы для современных технологий"			24,00	912	220	68	70	82		
1	Elective Courses	E		20,00	760	192	60A	60	72A		
2	Research Seminar	E	Department of Applied Mathematics	4,00	152	28	8	10	10A		
	"Математическое моделирование, управление и обработка информации"			24,00	912	292	36	102	154		
1	Elective Courses	E		20,00	760	264	28	92A	144A		
2	Research Seminar	E	Department of Applied Mathematics	4,00	152	28	8	10	10A		
	"Прикладные методы стохастического анализа"			24,00	912	280	70	110	100		
1	Elective Courses	E		20,00	760	252	62A	100A	90A		
2	Research Seminar	E	Department of Applied Mathematics	4,00	152	28	8	10	10A		
	English			1,00	38	2			2		

	Optional Courses									
1	Academic Writing	O		2,00	76	48		28	20A	Foreign language, Credits only to the cumulative rating
	Examinations			1,00	38	2			2	
1	Project Proposal	C	Department of Applied Mathematics	1,00	38	2			2A	Foreign language
	Final State Certification (FSC)			3,00	114	2				2
	Thesis Work			3,00	114	2				2
1	Presenting of Graduation Thesis	C		3,00	114	2				2A
	General Courses			8,00	304	60	24	36		
	Optional General Courses			8,00	304	60	24	36		
1	Legal Literacy	C	департамент права цифровых технологий и биоправа	4,00	152	30	10	20A		Online Course
2	Economics	C	Department of Theoretical Economics	4,00	152	30	14	16A		Online Course
	Internship			16,00	608	34	30		2	2
	Research Internship			10,00	380	2				2
1	Preparation of Graduation Thesis	C		10,00	380	2				2
	Project Internship			3,00	114	28	28			
1	Workshop "Information Systems"	C	Department of Applied Mathematics	3,00	114	28	28A			
	Professional Internship			3,00	114	4	2		2	
1	Graduation Internship	C		3,00	114	2			2A	
2	Work Experience Internship	C				2	2A			

Curriculum agreed:

Academic Supervisor Presnova A.P. 21.02.2023

Dean KROUK E.A. 21.02.2023

Head of Centre for Educational Model Design LEPESHKIN I.A. 13.03.2023

* Subject type:

Compulsory course
 Elective course
 Optional course

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