



National Research University Higher School of Economics (HSE)

Curriculum
 Field of study 01.03.01 Mathematics
 Educational Programme "Mathematics"
 Implementing unit: Faculty of Informatics, Mathematics and
 Computer Sciences, HSE - Nizhny Novgorod
 4 th, 2023/2024 academic year

APPROVED
 01.03.2023
 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	2 280	312	122	110	74	6	
Data Culture				3,00	114	6			6		
1	Introduction to Artificial Intelligence	C	Department of Fundamental Mathematics	3,00	114	6			6A		Online Course
Major				38,00	1 444	268	112	90	66		
Elective Professional Block (Major)				38,00	1 444	268	112	90	66		
1	History of Mathematics	C	Department of Fundamental Mathematics	7,00	266	56	28	28A			
2	Quantum Mechanics for Mathematicians	C	Department of Fundamental Mathematics	7,00	266	52	28A	24A			
3	Computer Topology	C	Department of Fundamental Mathematics	8,00	304	52	28	24A			
4	Basics of the oscillation theory	C	Department of Fundamental Mathematics	3,00	114	42	28	14A			
5	Applied theory of dynamical systems	C	Department of Fundamental Mathematics	6,00	228	22			22A		Foreign language
6	Number Theory	C	Department of Fundamental Mathematics	7,00	266	44			44A		
English				1,00	38	2			2		
Optional Courses											
1	Academic writing in English	O		2,00	76	48		28	20A		Credits only to the cumulative rating
Examinations				1,00	38	2			2		
1	Project Proposal	C	Department of Fundamental 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			4,00	152	30	10	20		
	Optional General Courses			4,00	152	30	10	20		
1	Legal Literacy	C	департамент права цифровых технологий и биоправа	4,00	152	30	10	20A		Online Course
	Internship			11,00	418	4				4
	Research Internship			3,00	114	2				2
1	Preparation of Graduation Thesis	C		3,00	114	2				2
	Professional Internship			8,00	304	2				2
1	Graduation Internship	C		8,00	304	2				2A

Curriculum agreed:

Academic Supervisor	CHEBOCHKO N.G.	13.02.2023
Dean	ASEEVA N.V.	13.02.2023
Deputy Director	FOMENKOV D.A.	13.02.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	28.02.2023

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O