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, 2024/2025 academic year

APPROVED

16.04.2024 Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years Years of Study: 2021/2022 - 2024/2025

Mode of Study: Full Time Degree: Bachelor's degree

						Allocation of Contact Hours					
Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	1	2	3	4	Additional Information
	Degree Progamme			60,00	2 280	330	126	128	70	6	
	Major				1 558	290	112	112	66		
	Elective Professional Block (Major)				1 558	290	112	112	66		
1	Computation and optimization for machine learning	С	Department of Fundamental Mathematics	3,00	114	6			6A		Online Course, Foreign language
2	History of Mathematics	С	Department of Fundamental Mathematics	7,00	266	56	28	28A			
3	3,1	С	Department of Fundamental Mathematics	8,00	304	56	28	28A			
4	Basics of the oscillation theory	С	Department of Fundamental Mathematics	3,00	114	56	28	28A			
5	Applied theory of dynamical systems	С	Department of Fundamental Mathematics	6,00	228	20			20A		Foreign language
6		С	Department of Fundamental Mathematics	7,00	266	40			40A		
7	Elements of function approximation theory	С	Department of Fundamental Mathematics	7,00 1,00	266	56	28A	28A			
	English				38	2			2		
	Optional Courses										
1	3 3	0		2,00	76	48		28	20A		Foreign language, Credits only to the cumulative rating
	Examinations			1,00	38	2			2		
1	, ,	С	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		С		3,00	114	2				2A	
	General Courses			4,00	152	30	14	16			

	Optional General Courses	4,00	152	30	14	16					
	Philosophy	С	Школа философии и	4,00	152	30	14	16A			Online Course
1			культурологии								
	Internship				418	6			2	4	
	Research Internship			3,00	114	4			2	2	
1	Preparation of Graduation Thesis	С		3,00	114	4			2	2	
	Professional Internship			8,00	304	2				2	
1	Graduation Internship	С		8,00	304	2				2A	

Curriculum agreed:

Academic Supervisor CHEBOCHKO N.G. 07.03.2024

Dean ASEEVA N.V. 11.03.2024

Deputy Director FOMENKOV D.A. 12.03.2024

Head of Centre for Educational Model Design LEPESHKIN I.A. 12.04.2024

* Subject type:

Compulsory course С Elective course Ε 0 Optional course