



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

3 rd, 2024/2025 academic year

APPROVED

16.04.2024

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2022/2023 - 2025/2026

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	792	170	186	212	224	
Data Culture				7,00	266	20	16	2		2	
1	Data Analysis in Python	C	Department of Fundamental Mathematics	6,00	228	16	16A				Online Course
2	External Examinations on Digital Skills. Final Level	C	отдел развития цифровых компетенций			2		2A			
3	Data Science, AI and Generative Models Independent Test. Intermediate	C	отдел развития цифровых компетенций	1,00	38	2				2A	Online Course
Major				35,00	1 330	622	126	154	168	174	
Core Professional Block (Major)				8,00	304	140	28	28	40	44	
1	Probability Theory	C	Department of Fundamental Mathematics	8,00	304	140	28	28A	40	44A	
Elective Professional Block (Major)				27,00	1 026	482	98	126	128	130	
1	Differential Geometry	C	Department of Fundamental Mathematics	7,00	266	140	28	28A	40	44A	
2	Mathematical Physics	C	Department of Mathematics	6,00	228	104	28	28A	28	20A	
3	Research seminar " Optimization Methods"	C	Department of Fundamental Mathematics	4,00	152	56	28	28A			
4	Research seminar " Functional analysis"	C	Department of Fundamental Mathematics	4,00	152	70	14	14A	20	22A	
5	Theory of Complex Functions	C	Department of Fundamental Mathematics	6,00	228	112		28	40A	44A	Foreign language
Minor				10,00	380	140	28	28	40	44	
1	Minor	E		10,00	380	140	28	28A	40	44A	
English						2				2	
Examinations						2				2	
1	Independent English Exam	C	School of Foreign Languages			2			2A		Foreign language

	Internship			8,00	304	8		2	2	4	
	Research Internship			8,00	304	8		2	2	4	
1	Курсовая работа	C		8,00	304	8		2	2	4A	

Curriculum agreed:

Academic Supervisor	CHEBOCHKO N.G.	03.03.2024
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

C

Elective course

E

Optional course

O