



National Research University Higher School of Economics (HSE)

Curriculum
Field of study 01.03.01 Mathematics
Educational Programme "Mathematics"
Implementing unit: Faculty of Mathematics, HSE - Moscow
3 rd, 2024/2025 academic year

APPROVED
19.04.2024
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				61,00	2 318	640	86	84	164	148	
Data Culture				8,00	304	82	40	38		4	
1	External Examinations on Digital Skills. Final Level	C	отдел развития цифровых компетенций			2		2A			
2	Data Science, AI and Generative Models Independent Test. Intermediate	C	отдел развития цифровых компетенций	1,00	38	2				2A	Online Course
3	Independent Programming Test. Intermediate	E	отдел развития цифровых компетенций			2				2A	Online Course
4	Probability Theory	C	Faculty of Mathematics	7,00	266	76	40	36A			
Major				30,00	1 140	422	16	14	122	112	
Core Professional Block (Major)				8,00	304	86			44	42	
1	Mathematical Statistics and Data Analysis	C	Faculty of Mathematics	5,00	190	84			44	40A	
2	Independent Exam "Mathematics. Licenciatus"	C	Faculty of Mathematics	3,00	114	2				2A	
Elective Professional Block (Major)				22,00	836	336	16	14	78	70	
Вариативный профессиональный модуль				5,00	190	264			56	50	
-				5,00	190	106			56	50	
1	Logic and Algorithms	E	Faculty of Mathematics	5,00	190	106			56	50A	
2	Mechanics	E	Faculty of Mathematics	5,00	190	104			54	50A	
-				5,00	190						
1	Algebra	E	Faculty of Mathematics	5,00	190	60	32	28A			
2	Introduction into Python	E	Department of Big Data and Information Retrieval	5,00	190	26	20	6A			Online Course
Elective courses from the general faculty list and/or NISA from the Cadaver of faculty disciplines, projects				12,00	456	72	16	14	22	20	
1	Introduction to Enumerative Combinatorics	E	Faculty of Mathematics	6,00	228	8	2	6A			Online Course, Foreign language

2	-	E		12,00	456	72	16A	14A	22A	20A	
	Minor			10,00	380	72	16	16	20	20	
1	Minor	C		10,00	380	72	16	16	20	20A	
	English					2			2		
	Examinations					2			2		
1	Independent English Exam	C	School of Foreign Languages			2			2A		Foreign language
	General Courses			8,00	304	60	14	16	20	10	
	Optional General Courses			8,00	304	60	14	16	20	10	
1	Legal Literacy	C	департамент теории права и сравнительного правоведения	4,00	152	30			20	10A	Online Course
2	Economics	C	Department of Theoretical Economics	4,00	152	30	14	16A			Online Course
	Internship			5,00	190	2				2	
	Research Internship			5,00	190	2				2	
1	Term Paper	C		5,00	190	2				2A	

Curriculum agreed:

Academic Supervisor	KLIMENKO A.V.	01.04.2024
Dean	SKRIPCHENKO A.S.	02.04.2024
Head of Centre for Educational Model Design	LEPESHKIN I.A.	18.04.2024

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O