



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.03.02 Applied Mathematics and Information Science

Educational Programme "Applied Mathematics and Information Science"

Implementing unit: Faculty of Informatics, Mathematics and Computer Sciences, HSE - Nizhny Novgorod

4 th, 2025/2026 academic year

APPROVED

14.05.2025

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	Period of execution	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
								1	2	3	4	
Degree Programme					60,00	2 280	310	102	80	122	6	
Major					38,00	1 444	300	100	80	120		
Core Professional Block (Major)					17,00	646	124	72	52			
1	Introduction to multiple hypothesis testing procedures	C	Department of Applied Mathematics and Information Science		5,00	190	8	4	4A			Online Course, Foreign language
2	Machine Learning	C	Department of Applied Mathematics and Information Science		6,00	228	60	40	20A			
3	Risks and random processes	C	Department of Applied Mathematics and Information Science		6,00	228	56	28	28A			
Elective Professional Block (Major)					21,00	798	176	28	28	120		
1	Computational Linguistics	C	Department of Applied Mathematics and Information Science		6,00	228	40			40A		Foreign language
2	Research Seminar	C	Department of Applied Mathematics and Information Science		3,00	114	40			40A		
3	The Internet of Things in Practice	C	Joint Department with MERA Group		6,00	228	40			40A		
4	Distributed Computing	C	Department of Applied Mathematics and Information Science		6,00	228	56	28	28A			
English					1,00	38	2			2		
Optional Courses												
1	Academic English Writing	O			2,00	76	48		28	20A		Foreign language
Examinations					1,00	38	2			2		
1	Project Proposal	C	Department of Applied Mathematics and Information Science		1,00	38	2			2A		Foreign language

	Final State Certification (FSC)				4,00	152	2			2
	Thesis Work				4,00	152	2			2
1	Presenting of Graduation Thesis	C			4,00	152	2			2A
	Internship				17,00	646	6	2		4
	Research Internship				12,00	456	2			2
1	Preparation of Graduation Thesis	C			12,00	456	2			2A
	Professional Internship				5,00	190	4	2		2
1	Graduation Internship	C		F	5,00	190	2			2A
2	Work Experience Internship	C		Fr			2		2A	

Curriculum agreed:

Academic Supervisor	Koldanov P.A.	14.03.2025
Dean	ASEEVA N.V.	18.03.2025
Deputy Director	FOMENKOV D.A.	18.03.2025
Head of Centre for Educational Model Design	LEPESHKIN I.A.	14.05.2025

* Subject type:

Compulsory course	C
Elective course	E
Optional course	O

Period of execution:

Fixed	F
Free	Fr