



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, 2024/2025 academic year

APPROVED

10.04.2024

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

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	348	100	100	142	6	
Data Culture				6,00	228	56	28	28			
1	Data Analysis and Data Mining	C	Department of Applied Mathematics and Information Science	6,00	228	56	28	28A			
Major				30,00	1 140	250	56	56	138		
Core Professional Block (Major)				10,00	380	62	28	28	6		
Subject Areas				10,00	380	62	28	28	6		
Optimization Methods				6,00	228	56	28	28			
1	Risks and random processes	C	Department of Applied Mathematics and Information Science	6,00	228	56	28	28A			
Probability Theory and Mathematical Statistics				4,00	152	6			6		
1	Introduction to multiple hypothesis testing procedures	C	Department of Applied Mathematics and Information Science	4,00	152	6			6A		Online Course
Elective Professional Block (Major)				20,00	760	188	28	28	132		
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	2,00	76	40			40A		
3	The Internet of Things in Practice	C	Department of Applied Mathematics and Information Science	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 Writing in English	O		2,00	76	48		28	20A	Foreign language, Credits only to the cumulative rating
	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
	General Courses			4,00	152	30	14	16		
	Optional General Courses			4,00	152	30	14	16		
1	Philosophy	C	Школа философии и культурологии	4,00	152	30	14	16A		Online Course
	Internship			15,00	570	8	2		2	4
	Research Internship			10,00	380	4			2	2
1	Preparation of Graduation Thesis	C		10,00	380	4			2	2
	Professional Internship			5,00	190	4	2			2
1	Graduation Internship	C		5,00	190	2				2A
2	Work Experience Internship	C				2	2A			

Curriculum agreed:

Academic Supervisor	KOLDANOV P.A.	25.03.2024
Dean	ASEEVA N.V.	25.03.2024
Deputy Director	FOMENKOV D.A.	26.03.2024
Head of Centre for Educational Model Design	LEPESHKIN I.A.	10.04.2024

* Subject type:

Compulsory course
 Elective course
 Optional course

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