

Length of Programme: 4 years

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

Years of Study: 2020/2021 - 2023/2024

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, 2023/2024 academic year

APPROVED 17.03.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

						Allocation of Contact Hours					
Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	1	2	3	4	Additional Information
	Degree Progamme				2 280	372	110	120	136	6	
	Data Culture	6,00	228	56	28	28					
1	Data Analysis and Data Mining	С	Department of Applied Mathematics and Information Science	6,00	228	56	28	28A			
	Major			28,00	1 064	246	56	56	134		
	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	С	Department of Applied Mathematics and Information Science	6,00	228	56	28	28A			
	Probability Theory and Mathemati	4,00	152	6			6				
1	Introduction to multiple hypothesis testing procedures	С	Department of Applied Mathematics and Information Science	4,00	152	6			6A		Online Course
	Elective Professional Block (Major)			18,00	684	184	28	28	128		
1	Computational Linguistics	С	Department of Applied Mathematics and Information Science	4,00	152	44			44A		Foreign language
2	Research seminar	С	Department of Applied Mathematics and Information Science	4,00	152	40			40A		
3	The Internet of Things in Practice	С	Department of Applied Mathematics and Information Science	4,00	152	44			44A		

	Distributed Computing	С	Department of Applied Mathematics and Information	6,00	228	56	28	28A			
4			Science								
	English			1,00	38	2			2		
	Optional Courses										
1	Academic Writing in English	0		2,00	76	48		28	20A		Foreign language, Credits only to the cumulative rating
	Examinations				38	2			2		
1	Project Proposal	С	Department of Applied Mathematics and Information Science	1,00	38	2			2A		Foreign language
	Final State Certification (FSC)				152	2				2	
	Thesis Work				152	2				2	
1	Presenting of Graduation Thesis	С		4,00	152	2				2A	
	General Courses				304	60	24	36			
	Optional General Courses				304	60	24	36			
	Legal Literacy	С	департамент права цифровых технологий и	4,00	152	30	10	20A			Online Course
1			биоправа								
2	Philosophy	С	Школа философии и культурологии	4,00	152	30	14	16A			Online Course
	Internship				494	6	2			4	
	Research Internship				304	2				2	
1	Preparation of Graduation Thesis	С		8,00	304	2				2	
	Professional Internship				190	4	2			2	
1	Graduation Internship	С		5,00	190	2				2A	
2	Work Experience Internship	С				2	2A				

Curriculum agreed:

Academic Supervisor KOLDANOV P.A. 01.03.2023

Dean ASEEVA N.V. 01.03.2023

Deputy Director FOMENKOV D.A. 01.03.2023

Head of Centre for Educational Model Design LEPESHKIN I.A. 14.03.2023

* Subject type:

Compulsory course C Elective course E Optional course O