



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

3 rd, 2024/2025 academic year

APPROVED

10.04.2024

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	672					
Data Culture				4,00	152	24					
1	External Examinations on Digital Skills. Final Level	C	отдел развития цифровых компетенций			2		2A			
2	Selected Data Analysis Topics	C	Department of Applied Mathematics and Information Science	3,00	114	20			20A	Online Course	
3	Data Science, AI and Generative Models Independent Test. Advanced Level	C	отдел развития цифровых компетенций	1,00	38	2				2A Online Course	
Major				32,00	1 216	490					
Core Professional Block (Major)				13,00	494	192					
1	Data Bases	C	Department of Applied Mathematics and Information Science	4,00	152	56	28	28A			
2	Operations Research	C	Department of Applied Mathematics and Information Science	6,00	228	96	28A	28	40A		
3	Stochastic Methods of Decision Making	C	Department of Applied Mathematics and Information Science	3,00	114	40			40A		
Elective Professional Block (Major)				19,00	722	298					
1	Algorithms of Operations Research	C	Department of Applied Mathematics and Information Science	4,00	152	44				44A	

2	Data Analysis	C	Department of Applied Mathematics and Information Science	6,00	228	96	28A	28	40A		
3	Research Seminar	C	Department of Applied Mathematics and Information Science	2,00	76	50	14	14	22A		
4	Network and Web Technologies	C	Department of Applied Mathematics and Information Science	4,00	152	64			20	44A	Foreign language
5	Theory and Methods of Translation and Compilation	C	Department of Applied Mathematics and Information Science	3,00	114	44				44A	
Minor				10,00	380	122					
1	Minor	E		10,00	380	122	28	28A	33	33A	
English						2					
Examinations						2					
1	Independent English Exam	C	School of Foreign Languages			2			2A		Foreign language
General Courses				4,00	152	30					
Optional General Courses				4,00	152	30					
1	Philosophy	C	Department of Applied Mathematics and Information Science	4,00	152	30			16	14A	Online Course
Internship				10,00	380	4					
Project Internship				7,00	266	4					
1	Term Paper	C		5,00	190	2				2A	
2	Project Projects	C		2,00	76	2			2A		
Professional Internship				3,00	114						
1	Work Experience Internship	C		3,00	114						

Curriculum agreed:

Academic Supervisor	Колданов П.А.	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

C

Elective course

E

Optional course

O