



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.03.02 Applied Mathematics and Information Science

Educational Programme "Applied Data Analysis and Artificial Intelligence"

Specializations: "Applied Data Analysis", "Data Analysis in Finance", "Machine Learning Architecture"

Implementing unit: St. Petersburg School of Mathematics, Physics and Computer Science, HSE, HSE - Saint Petersburg

1 st, 2024/2025 academic year

APPROVED

27.05.2024

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2024/2025 - 2027/2028

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	2 480	974	268	212	268	226	
Data Culture						2			2		
1	Independent Digital Literacy Test	C	отдел развития цифровых компетенций			2			2A		Online Course
Major				45,00	1 710	676	182	156	190	148	
Core Professional Block (Major)				38,00	1 444	620	154	132	190	144	
1	Algebra	C	Informatics Department	4,00	152	52	28	24A			
2	Algorithms and Data Structures	C	Informatics Department	8,00	304	124	28	24A	40	32A	
3	Discrete Mathematics	C	Informatics Department	8,00	304	124	28A	24A	40	32A	
4	Linear Algebra and Geometry	C	Informatics Department	4,00	152	72			40	32A	
5	Calculus 1	C	Informatics Department	10,00	380	196	42	36A	70	48A	
6	Introduction to Programming	C	Informatics Department	4,00	152	52	28	24A			
Elective Professional Block (Major)				7,00	266	56	28	24		4	
Compulsory Courses				7,00	266	56	28	24		4	
1	Project Seminar	C	Informatics Department	3,00	114	4				4A	
2	C++ Programming Language	C	Informatics Department	4,00	152	52	28	24A			
English						2				2	
Optional Courses											
1	English	O		8,00	304	128	20	28A	40	40A	Foreign language, Credits only to the cumulative rating
Examinations						2				2	
1	English Language Integrative Exam	C	Department of Foreign Languages			2				2A	Foreign language

	General Courses			7,00	466	292	86	56	76	74	
	Optional General Courses			6,00	228	102	38	16	24	24	
1	Russian History	C	School of History	4,00	152	76	12	16A	24	24A	Online Course
2	Foundations of Russian Statehood	C	School of History	2,00	76	26	26A				Online Course
	Core General Courses			1,00	238	190	48	40	52	50	
1	Safe Living Basics	C	отдел развития образовательных программ	1,00	38	6	6A				Online Course
2	Physical Training	C	Department of Physical Training		200	184	42	40A	52	50A	Online Course
	Internship			8,00	304	2				2	
	Project Internship			8,00	304	2				2	
1	Project	C		8,00	304	2				2A	

Curriculum agreed:

Academic Supervisor	MUKHIN M.S.	14.05.2024
Dean		14.05.2024
Deputy Director	KUZMIN P.V.	14.05.2024
Head of Centre for Educational Model Design	LEPESHKIN I.A.	23.05.2024

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O