



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

1 st, 2023/2024 academic year

APPROVED

17.05.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2023/2024 - 2026/2027

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	1 096	230	250	330	286	
Data Culture						2			2		
1	Independent Digital Literacy Test	C	отдел развития цифровых компетенций			2			2A		Online Course
Major				50,00	1 900	774	182	156	240	196	
Core Professional Block (Major)				47,00	1 786	770	182	156	240	192	
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	4,00	152	84	28A	24A		32A	
4	Linear Algebra and Geometry	C	Informatics Department	7,00	266	108			60	48A	
5	Calculus 1	C	Informatics Department	10,00	380	196	42	36A	70	48A	
6	Introduction to Programming	C	Informatics Department	6,00	228	82	28	24A	30A		
7	C++ Programming Language	C	Informatics Department	8,00	304	124	28	24A	40	32A	
Elective Professional Block (Major)				3,00	114	4				4	
Проектный семинар				3,00	114	4				4	
1	Project Seminar	C	Informatics Department	3,00	114	4				4A	
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	
General Courses				7,00	466	316	48	94	88	86	
Optional General Courses				6,00	228	126		54	36	36	

1	Russian History	C	School of History	4,00	152	72			36	36A	Online Course
2	Foundations of Russian Statehood	C	School of History	2,00	76	54		54A			
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				3,00	114	2				2	
Project Internship				3,00	114	2				2	
1	Project	C		3,00	114	2				2A	

Curriculum agreed:

Academic Supervisor	OMELCHENKO A.V.	03.05.2023
Dean		03.05.2023
Deputy Director	KUZMIN P.V.	03.05.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	17.05.2023

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O