

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"

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

1 st, 2021/2022 academic year

APPROVED by

Vice Rector

ROSHCHIN Y.S.

22.04.2021

Length of Programme: 4 years

Years of Study: 2021/2022 - 2024/2025

Mode of Study: Full Time

Degree: Bachelor's degree

Number of Students: 100

Number of Groups: 4

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	2 280	1 145	254	228	355	308	
	Data Culture					3			3		
1	Independent Digital Competence Assessment. Digital Literacy	C	центр поддержки и мониторинга образовательных программ			3			3A		
	Major			50	1 900	774	182	156	240	196	
	Core Professional Block (Major)			46	1 748	770	182	156	240	192	
	Subject Areas			46	1 748	770	182	156	240	192	
	Algorithms and Data Structures			8	304	124	28	24	40	32	
1	Algorithms and Data Structures	C	департамент информатики	8	304	124	28	24A	40	32A	
	Discrete Mathematics			3	114	84	28	24		32	
1	Discrete Mathematics	C	департамент информатики	3	114	84	28A	24A		32A	
	Linear Algebra and Geometry			11	418	160	28	24	60	48	
1	Algebra	C	департамент информатики	4	152	52	28	24A			
2	Linear Algebra and Geometry	C	департамент информатики	7	266	108			60	48A	
	Mathematical Analysis			10	380	196	42	36	70	48	
1	Calculus 1	C	департамент информатики	10	380	196	42	36A	70	48A	
	Programming			14	532	206	56	48	70	32	
1	Introduction to Programming	C	департамент информатики	6	228	82	28	24A	30A		
2	C++ programming language	C	департамент информатики	8	304	124	28	24A	40	32A	
	Elective Professional Block (Major)			4	152	4				4	
	Проектный семинар			4	152	4				4	
1	Project Seminar	C	департамент информатики	4	152	4				4A	
	English					146	24	32	44	46	

	Optional Courses					144	24	32	44	44	
1	English	O		8		144	24	32A	44	44A	Credits only to the cumulative rating
	Examinations					2				2	
1	English Language Integrative Exam	C	Department of Foreign Languages			2				2A	
	General Courses			6	228	220	48	40	68	64	
	Optional General Courses			4	152	30			16	14	
1	Economics	C	Department of Theoretical Economics	4	152	30			16	14A	Online Course
	Core General Courses			2	76	190	48	40	52	50	
1	Safe Living Basics	C	отдел развития образовательных программ	1	38	6	6A				Online Course
2	Physical Training	C	Department of Physical Training	1	38	184	42	40A	52	50A	Online Course
	Internship			4	152	2				2	
	Project Internship			4	152	2				2	
1	Project	C		4	152	2				2A	

Academic Supervisor	OMELCHENKO A.V.	05.04.2021
Dean	OMELCHENKO A.V.	05.04.2021
Deputy Director	CHICHERINA N.V.	07.04.2021
Head of Degree Programmes Development Office	MAMONOVA M.A.	21.04.2021

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O