



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.04.02 Applied Mathematics and Informatics

Educational Programme "Systems Reliability Engineering"

Trajectories: "Systems Reliability Engineering"

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

1 st, 2024/2025 academic year

APPROVED

15.04.2024

Vice Rector
ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 2 years

Years of Study: 2024/2025 - 2025/2026

Mode of Study: Full Time

Degree: Master's degree / MBA

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	480	142	170	126	44	
Systems Reliability Engineering (Applied track)				60,00	2 280	482	142	170	126	44	
Major				45,00	1 710	452	140	168	112	32	
Major variable (6 out of 9)				36,00	1 368	364	112	140	80	32	
1	Heterogeneous Infrastructure Administration	E	Informatics Department	6,00	228	56	28	28A			
2	Administration and optimization of DBMS performance	E	Informatics Department	3,00	114	44				44A	
3	High Performance Computing	E	Informatics Department	6,00	228	68			36	32A	
4	Requirements engineering	E	Informatics Department	6,00	228	56	28A	28A			
5	Software Development Infrastructure	E	Informatics Department	6,00	228	56	28	28A			
6	Enterprise IT architecture	E	Informatics Department	6,00	228	56	28	28A			
7	IT project management	E	Informatics Department	3,00	114	44			44A		
8	Data interpretation and visualization methods	E	Informatics Department	6,00	228	72		28	44A		
9	Ensuring the quality of business applications	E	Informatics Department	3,00	114	44				44A	
Major 1				9,00	342	88	28	28	32		
1	Algorithms and Data Structures	C	Informatics Department	3,00	114	32			32A		
2	C++ Development on Linux	C	Informatics Department	6,00	228	56	28A	28A			
Key Seminars				6,00	228	28	2	2	12	12	
1	Research Seminar «Modern software development technologies»	C	Informatics Department	3,00	114	20			10	10A	
2	Mentor's Seminar	C	Informatics Department	3,00	114	8	2	2A	2	2A	
Magolego				6,00	228						

1	Optional disciplines from the university-wide MagoLego pool	E		6,00	228						
	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 04.04.2024

Dean 09.04.2024

Deputy Director KUZMIN P.V. 10.04.2024

Head of Centre for Educational Model Design LEPESHKIN I.A. 12.04.2024

* Subject type:

Compulsory course

C

Elective course

E