



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, 2023/2024 academic year

APPROVED

12.05.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 2 years

Years of Study: 2023/2024 - 2024/2025

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	482	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 selective 1 year (36 out of 45)				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-Level Modelling and Simulation of Digital Systems	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	2	2	2A	

	Magolego			6,00	228					
1	All-university Pool MAGOLEGO Courses	E		6,00	228					
	Internship			3,00	114	2			2	
	Project Internship			3,00	114	2			2	
1	Project 1 year	C		3,00	114	2			2A	

Curriculum agreed:

Academic Supervisor	MUKHIN M.S.	14.03.2023
Dean		14.03.2023
Deputy Director	KUZMIN P.V.	14.03.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	04.05.2023

* Subject type:

Compulsory course

C

Elective course

E