



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.04.02 Applied Mathematics and Informatics
Educational Programme "Software Development and Data Analysis"

Trajectories: "Software Development and Data Analysis"
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	384	82	82	132	90	
Software Development and Data Analysis (Research track)				60,00	2 280	386	82	82	132	90	
Major				39,00	1 482	368	78	78	128	84	
Major (7 out of 9)				39,00	1 482	368	78	78	128	84	
1	Web Search	E	Informatics Department	6,00	228	56			28	28A	
2	Data Management Algorithms	E	Informatics Department	6,00	228	56	28	28A			Foreign language
3	Generative Models in Machine Learning	E	Informatics Department	3,00	114	40			40A		
4	Additional Machine Learning Chapters	E	Informatics Department	6,00	228	44	22	22A			
5	Additional Machine Learning Chapters and Linear Algebra	E	Informatics Department	6,00	228	56	28	28A			
6	Graphics Accelerator Programming	E	Informatics Department	6,00	228	56	28	28A			
7	Game Development	E	Informatics Department	6,00	228	56			28	28A	
8	Software Development Management	E	Informatics Department	3,00	114	28			28A		
9	Effective C ++ Programming	E	Informatics Department	6,00	228	56			28	28A	
Key Seminars				9,00	342	16	4	4	4	4	
1	Mentor's Seminar	C	Informatics Department	9,00	342	16	4	4A	4	4A	
Magolego				6,00	228						
1	All-university Pool MAGOLEGO Courses	E		6,00	228						
Internship				6,00	228	2				2	
Project Internship				6,00	228	2				2	
1	Project	C		6,00	228	2				2A	

Curriculum agreed:

Academic Supervisor	MOSKVIN D.N.	24.04.2023
Dean		24.04.2023
Deputy Director	KUZMIN P.V.	25.04.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	07.05.2023

* Subject type:

Compulsory course

C

Elective course

E