



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  
2 nd, 2024/2025 academic year

APPROVED  
27.05.2024

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	
<b>Degree Programme</b>				<b>60,00</b>	<b>2 280</b>	<b>176</b>	<b>54</b>	<b>56</b>	<b>68</b>	<b>4</b>	
<b>Software Development and Data Analysis (Research track)</b>				<b>60,00</b>	<b>2 280</b>	<b>182</b>	<b>54</b>	<b>56</b>	<b>68</b>	<b>4</b>	
<b>Major</b>				<b>21,00</b>	<b>798</b>	<b>164</b>	<b>50</b>	<b>50</b>	<b>64</b>		
<b>Major Elective Block (21 Credits)</b>				<b>21,00</b>	<b>798</b>	<b>164</b>	<b>50</b>	<b>50</b>	<b>64</b>		
1	GPU Calculations	E	Informatics Department	6,00	228	28	14	14A			
2	Computer Layout	E	Informatics Department	6,00	228	28	14	14A			
3	Big Data Software Engineering	E	Informatics Department	3,00	114	32			32A		Online Course
4	Recommender Systems	E	Informatics Department	6,00	228	44	22	22A			
5	Category Theory	E	Informatics Department	3,00	114	32			32A		
<b>Final State Certification (FSC)</b>				<b>3,00</b>	<b>114</b>	<b>2</b>				<b>2</b>	
1	Final Qualification Paper	C		3,00	114	2				2A	
<b>Key Seminars</b>				<b>9,00</b>	<b>342</b>	<b>12</b>	<b>4</b>	<b>4</b>	<b>4</b>		
1	Mentor's Seminar	C	Informatics Department	9,00	342	12	4	4	4A		
<b>Magolego</b>				<b>3,00</b>	<b>114</b>						
1	All-university Pool MAGOLEGO Courses	E		3,00	114						
<b>Internship</b>				<b>24,00</b>	<b>912</b>	<b>4</b>		<b>2</b>		<b>2</b>	
<b>Research Internship</b>				<b>18,00</b>	<b>684</b>	<b>2</b>				<b>2</b>	
1	Preparation of post graduation thesis	C		18,00	684	2				2	
<b>Project Internship</b>				<b>6,00</b>	<b>228</b>	<b>2</b>		<b>2</b>			
1	Project	C		6,00	228	2		2A			

Curriculum agreed:

Academic Supervisor	MOSKVIN D.N.	22.04.2024
Dean		22.04.2024
Deputy Director	KUZMIN P.V.	22.04.2024
Head of Centre for Educational Model Design	LEPESHKIN I.A.	23.05.2024

\* Subject type:

Compulsory course

C

Elective course

E