



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"

Implementing unit: St. Petersburg School of Mathematics, Physics and Computer Science, HSE, HSE - Saint Petersburg  
1 st, 2022/2023 academic year

APPROVED

13.05.2022

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2022/2023 - 2025/2026

Mode of Study: Full Time

Degree: Bachelor's degree

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>2 480</b>	<b>1 001</b>	<b>230</b>	<b>196</b>	<b>311</b>	<b>264</b>	
<b>Data Culture</b>						<b>3</b>			<b>3</b>		
1	Independent Digital Literacy Test	C	Center for Support and Monitoring of Degree Programs			3			3A		
<b>Major</b>				<b>51,00</b>	<b>1 938</b>	<b>774</b>	<b>182</b>	<b>156</b>	<b>240</b>	<b>196</b>	
<b>Core Professional Block (Major)</b>				<b>47,00</b>	<b>1 786</b>	<b>770</b>	<b>182</b>	<b>156</b>	<b>240</b>	<b>192</b>	
1	Algebra	C	Informatics Department	4,00	152	52	28	24A			
2	Algorithms and Data Structures	C	Informatics Department	8,00	304	124	28	24A	40	32A	
3	Discrete Mathematics	C	Informatics Department	4,00	152	84	28A	24A		32A	
4	Linear Algebra and Geometry	C	Informatics Department	7,00	266	108			60	48A	
5	Calculus 1	C	Informatics Department	10,00	380	196	42	36A	70	48A	
6	Introduction to Programming	C	Informatics Department	6,00	228	82	28	24A	30A		
7	C++ Programming Language	C	Informatics Department	8,00	304	124	28	24A	40	32A	
<b>Elective Professional Block (Major)</b>				<b>4,00</b>	<b>152</b>	<b>4</b>					<b>4</b>
<b>Project Seminar</b>				<b>4,00</b>	<b>152</b>	<b>4</b>					<b>4</b>
1	Project Seminar	C	Informatics Department	4,00	152	4				4A	
<b>English</b>						<b>2</b>					<b>2</b>
<b>Optional Courses</b>											
1	English	O		8,00	304	128	20	28A	40	40A	Foreign language, Credits only to the cumulative rating
<b>Examinations</b>						<b>2</b>					<b>2</b>
1	English Language Integrative Exam	C	Department of Foreign Languages			2				2A	
<b>General Courses</b>				<b>5,00</b>	<b>390</b>	<b>220</b>	<b>48</b>	<b>40</b>	<b>68</b>	<b>64</b>	

	<b>Optional General Courses</b>			<b>4,00</b>	<b>152</b>	<b>30</b>			<b>16</b>	<b>14</b>	
1	Economics	C	Department of Theoretical Economics	4,00	152	30			16	14A	Online Course
	<b>Core General Courses</b>			<b>1,00</b>	<b>238</b>	<b>190</b>	<b>48</b>	<b>40</b>	<b>52</b>	<b>50</b>	
1	Safe Living Basics	C	отдел развития образовательных программ	1,00	38	6	6A				Online Course
2	Physical Training	C	Department of Physical Training		200	184	42	40A	52	50A	Online Course
	<b>Internship</b>			<b>4,00</b>	<b>152</b>	<b>2</b>				<b>2</b>	
	<b>Project Internship</b>			<b>4,00</b>	<b>152</b>	<b>2</b>				<b>2</b>	
1	Project	C		4,00	152	2				2A	

**Curriculum agreed:**

Academic Supervisor	OMELCHENKO A.V.	06.05.2022
Dean	OMELCHENKO A.V.	06.05.2022
Deputy Director	KUZMIN P.V.	06.05.2022
Head of Degree Programmes Development Office	MAMONOVA M.A.	12.05.2022

\* Subject type:

Compulsory course  
 Elective course  
 Optional course

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