



Length of Programme: 4 years

Years of Study: 2023/2024 - 2026/2027

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>2 442</b>	<b>916</b>	<b>166</b>	<b>190</b>	<b>216</b>	<b>198</b>	
<b>Data Culture</b>						<b>6</b>		<b>2</b>		<b>4</b>	
1	External Examinations on Digital Skills. Entry-level	C	отдел развития цифровых компетенций			2		2A			
2	External Examinations on Digital Skills. Intermediate Level	C	отдел развития цифровых компетенций			2				2A	
3	Independent Programming Test. Advanced Level	C	отдел развития цифровых компетенций			2				2A	Online Course
<b>Major</b>				<b>41,00</b>	<b>1 558</b>	<b>612</b>	<b>92</b>	<b>114</b>	<b>142</b>	<b>118</b>	
<b>Core Professional Block (Major)</b>				<b>38,00</b>	<b>1 444</b>	<b>564</b>	<b>78</b>	<b>100</b>	<b>122</b>	<b>118</b>	
<b>Core Disciplines 2 year</b>				<b>14,00</b>	<b>532</b>	<b>160</b>	<b>56</b>	<b>32</b>	<b>36</b>	<b>36</b>	
1	Group Dynamics and Communication in Software Engineering Professional Practice	C	Department of Software Engineering	4,00	152	28	28A				
2	Mathematical Statistics	C	Department of Mathematics	5,00	190	72			36	36A	
3	Probability Theory	C	Department of Mathematics	5,00	190	60	28	32A			
<b>Core Disciplines fo C#</b>				<b>24,00</b>	<b>912</b>	<b>404</b>	<b>64</b>	<b>100</b>	<b>122</b>	<b>118</b>	
1	Algorithms and Data Structures-1	E	Department of Software Engineering	4,00	152	56	28	28A			
2	Algorithms and Data Structures-2	E	Department of Software Engineering	4,00	152	80			40	40A	
3	Computer System Architecture	E	Department of Software Engineering	4,00	152	72	36	36A			
4	Software Design	E	Department of Software Engineering	8,00	304	136		36	50A	50A	
5	Operating Systems	E	Department of Software Engineering	4,00	152	60			32	28A	
<b>Core Disciplines for C</b>				<b>24,00</b>	<b>912</b>	<b>404</b>	<b>64</b>	<b>100</b>	<b>122</b>	<b>118</b>	

1	Algorithms and Data Structures	E	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	4,00	152	56	28	28A			
2	Databases (part 1)	E	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	4,00	152	80			40	40A	
3	Foundations of Operating Systems	E	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	4,00	152	72	36	36A			
4	Java Programming	E	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	8,00	304	136		36	50A	50A	
5	Formal Languages and Automata	E	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	4,00	152	60			32	28A	
<b>Elective Professional Block (Major)</b>				<b>3,00</b>	<b>114</b>	<b>48</b>	<b>14</b>	<b>14</b>	<b>20</b>		
<b>Научно-исследовательский семинар, 2 курс</b>				<b>3,00</b>	<b>114</b>	<b>48</b>	<b>14</b>	<b>14</b>	<b>20</b>		
1	Research Seminar "Data analysis in Python"	E	Department of Software Engineering	3,00	114	48	14	14	20A		
2	Research Seminar "Information Security Methods and Algorithms"	E	Department of Big Data and Information Retrieval	3,00	114	48	14	14	20A		
3	Research Seminar "Neuroinformatics. Additional Chapters"	E	Department of Software Engineering	3,00	114	48	14	14	20A		
4	Research Seminar "Immersion in iOS App Development"	E	Department of Software Engineering	3,00	114	48	14	14	20A		
5	Research Seminar "Programmable Crypto Economics"	E	Department of Software Engineering	3,00	114	48	14	14	20A		
6	Research Seminar "PHP Web Application Development"	E	Department of Software Engineering	3,00	114	48	14	14	20A		
7	Research Seminar "Game Development with Unity"	E	Department of Software Engineering	3,00	114	48	14	14	20A		
8	Research Seminar "Cloud and Mobile Application Development for Google Android Platform"	E	Department of Software Engineering	3,00	114	48	14	14	20A		
<b>Minor</b>				<b>10,00</b>	<b>380</b>	<b>152</b>	<b>38</b>	<b>38</b>	<b>38</b>	<b>38</b>	<b>38</b>
1	Minor	E		10,00	380	152	38	38A	38	38A	
<b>English</b>											
<b>Optional Courses</b>											
1	English Language	O		6,00	228	100	32	28	40A		Foreign language, Credits only to the cumulative rating
<b>General Courses</b>				<b>1,00</b>	<b>200</b>	<b>144</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	
<b>Core General Courses</b>				<b>1,00</b>	<b>200</b>	<b>144</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	

1	Physical Training	C	Department of Physical Training	1,00	200	144	28	28	44	44A	
	<b>Internship</b>			<b>8,00</b>	<b>304</b>	<b>2</b>				<b>2</b>	
	<b>Project Internship</b>			<b>5,00</b>	<b>190</b>	<b>2</b>				<b>2</b>	
1	Term Project 1	C		5,00	190	2				2A	
	<b>Professional Internship</b>			<b>3,00</b>	<b>114</b>						
1	Technological Internship	C		3,00	114						

**Curriculum agreed:**

Academic Supervisor Pavlochev N.A. 13.03.2024

Dean ARZHANTSEV I.V. 14.03.2024

Head of Centre for Educational Model Design LEPESHKIN I.A. 03.05.2024

\* Subject type:

Compulsory course

C

Elective course

E

Optional course

O