



National Research University Higher School of Economics (HSE)

Curriculum  
 Field of study 09.03.04 Software Engineering  
 Educational Programme "Software Engineering"  
 Implementing unit: -, HSE - Perm  
 3 rd, 2023/2024 academic year

APPROVED  
 28.04.2023  
 Vice Rector  
 ROSHCHIN S.Y.  
 Signed with EDS

Length of Programme: 4 years  
 Years of Study: 2021/2022 - 2024/2025  
 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>2 280</b>	<b>521</b>	<b>132</b>	<b>136</b>	<b>149</b>	<b>104</b>	
<b>Data Culture</b>				<b>7,00</b>	<b>266</b>	<b>62</b>	<b>30</b>	<b>30</b>	<b>2</b>		
1	Machine Learning	C	Кафедра информационных технологий в бизнесе	6,00	228	60	30A	30A			
2	Independent Data Science Test. Advanced Level	C	отдел развития цифровых компетенций	1,00	38	2			2A		Online Course
<b>Major</b>				<b>24,00</b>	<b>912</b>	<b>280</b>	<b>60</b>	<b>62</b>	<b>94</b>	<b>64</b>	
<b>Core Professional Block (Major)</b>				<b>15,00</b>	<b>570</b>	<b>182</b>	<b>60</b>	<b>62</b>	<b>32</b>	<b>28</b>	
<b>Subject Areas</b>				<b>15,00</b>	<b>570</b>	<b>182</b>	<b>60</b>	<b>62</b>	<b>32</b>	<b>28</b>	
<b>Software Quality Assurance and Testing</b>				<b>5,00</b>	<b>190</b>	<b>66</b>	<b>32</b>	<b>34</b>			
1	Software Quality Assurance and Testing	C	Кафедра информационных технологий в бизнесе	5,00	190	66	32	34A			Foreign language
<b>Development and Analysis of Requirements</b>				<b>5,00</b>	<b>190</b>	<b>60</b>			<b>32</b>	<b>28</b>	
1	Development and Analysis of Requirements	C	Department of Software Engineering	5,00	190	60			32	28A	Online Course
<b>Software Project Management</b>				<b>5,00</b>	<b>190</b>	<b>56</b>	<b>28</b>	<b>28</b>			
1	Group Dynamics and Communication in Software Engineering Professional Practice	C	Кафедра информационных технологий в бизнесе	5,00	190	56	28	28A			
<b>Elective Professional Block (Major)</b>				<b>9,00</b>	<b>342</b>	<b>98</b>			<b>62</b>	<b>36</b>	
<b>Дисциплины по выбору студента (3 курс)</b>				<b>5,00</b>	<b>190</b>	<b>56</b>			<b>32</b>	<b>24</b>	
1	Web Programming	E	Кафедра информационных технологий в бизнесе	5,00	190	56			32	24A	
2	Computer Graphics	E	Кафедра информационных технологий в бизнесе	5,00	190	56			32	24A	
3	Programming in Go	E	Кафедра информационных технологий в бизнесе	5,00	190	56			32	24A	

4	Modern Programming Languages and Technologies	E	Кафедра информационных технологий в бизнесе	5,00	190	56			32	24A	
<b>Research seminar</b>				<b>4,00</b>	<b>152</b>	<b>42</b>			<b>30</b>	<b>12</b>	
<b>НИС 3 курс</b>				<b>4,00</b>	<b>152</b>	<b>42</b>			<b>30</b>	<b>12</b>	
1	Research Seminar "DevOps: Introduction"	E	Кафедра информационных технологий в бизнесе	4,00	152	42			30	12A	
2	Research Seminar "Introduction to Design Science"	E	Кафедра информационных технологий в бизнесе	4,00	152	42			30	12A	
3	Research Seminar "Programming Tools of BI"	E	Кафедра информационных технологий в бизнесе	4,00	152	42			30	12A	
4	Research Seminar "Development of mobile applications"	E	Кафедра информационных технологий в бизнесе	4,00	152	42			30	12A	
<b>Minor</b>				<b>10,00</b>	<b>380</b>	<b>112</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	
1	Minor	E		10,00	380	112	28	28A	28	28A	
<b>English</b>						<b>3</b>			<b>3</b>		
<b>Examinations</b>						<b>3</b>			<b>3</b>		
1	Independent English Exam	C	School of Foreign Languages			3			3A		Foreign language
<b>General Courses</b>				<b>8,00</b>	<b>304</b>	<b>60</b>	<b>14</b>	<b>16</b>	<b>20</b>	<b>10</b>	
<b>Optional General Courses</b>				<b>8,00</b>	<b>304</b>	<b>60</b>	<b>14</b>	<b>16</b>	<b>20</b>	<b>10</b>	
1	Legal Literacy	C	департамент права цифровых технологий и биоправа	4,00	152	30			20	10A	Online Course
2	Economics	C	Department of Theoretical Economics	4,00	152	30	14	16A			Online Course
<b>Internship</b>				<b>11,00</b>	<b>418</b>	<b>4</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 Paper	C		5,00	190	2			2A		
<b>Professional Internship</b>				<b>6,00</b>	<b>228</b>	<b>2</b>				<b>2</b>	
1	Work Experience Internship	C		6,00	228	2				2A	

**Curriculum agreed:**

Academic Supervisor	LANIN V.V.	12.04.2023
Dean	ISOPESKUL O.Y.	12.04.2023
Deputy Director	ZAGORODNOVA E.P.	14.04.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	28.04.2023

\* Subject type:

Compulsory course  
Elective course  
Optional course

C  
E  
O

