

## National Research University Higher School of Economics (HSE)

## Curriculum

Field of study 09.03.04 Software Engineering

Educational Programme "Software Engineering"

Faculty of Economics, Management and Business Informatics,

HSE - Perm

2 nd, 2021/2022 academic year

APPROVED by  
Vice RectorROSHCHIN Y.S.  
16.04.2021

Length of Programme: 4 years

Years of Study: 2020/2021 - 2023/2024

Mode of Study: Full Time

Degree: Bachelor's degree

Number of Students: 70

Number of Groups: 3

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</b>	<b>2 508</b>	<b>843</b>	<b>206</b>	<b>216</b>	<b>266</b>	<b>155</b>	
<b>Data Culture</b>				<b>5</b>	<b>190</b>	<b>70</b>			<b>40</b>	<b>30</b>	
1	Mathematical Methods for Data Analysis	C	Department of Information Technologies in Business	5	190	70			40	30A	
<b>Major</b>				<b>37</b>	<b>1 406</b>	<b>460</b>	<b>126</b>	<b>136</b>	<b>130</b>	<b>68</b>	
<b>Core Professional Block (Major)</b>				<b>34</b>	<b>1 292</b>	<b>418</b>	<b>118</b>	<b>122</b>	<b>110</b>	<b>68</b>	
<b>Subject Areas</b>				<b>34</b>	<b>1 292</b>	<b>418</b>	<b>118</b>	<b>122</b>	<b>110</b>	<b>68</b>	
<b>Algorithms and Data Structures</b>				<b>8</b>	<b>304</b>	<b>100</b>	<b>36</b>	<b>28</b>	<b>36</b>		
1	Algorithms and Data Structures	C	Department of Information Technologies in Business	8	304	100	36A	28	36A		Online Course
<b>Software Engineering</b>				<b>8</b>	<b>304</b>	<b>96</b>			<b>50</b>	<b>46</b>	
1	Software Design	C	Department of Information Technologies in Business	8	304	96			50	46A	
<b>Organization of Computations</b>				<b>8</b>	<b>304</b>	<b>98</b>	<b>22</b>	<b>30</b>	<b>24</b>	<b>22</b>	
1	Computer System Architecture	C	Department of Information Technologies in Business	4	152	52	22	30A			
2	Operating Systems	C	Department of Information Technologies in Business	4	152	46			24	22A	
<b>Software Architecture</b>				<b>5</b>	<b>190</b>	<b>60</b>	<b>28</b>	<b>32</b>			
1	Databases	C	Department of Software Engineering	5	190	60	28	32A			
<b>Probability Theory and Mathematical Statistics</b>				<b>5</b>	<b>190</b>	<b>64</b>	<b>32</b>	<b>32</b>			
1	Probability Theory and Mathematical Statistics	C	Department of Higher Mathematics	5	190	64	32	32A			
<b>Elective Professional Block (Major)</b>				<b>3</b>	<b>114</b>	<b>42</b>	<b>8</b>	<b>14</b>	<b>20</b>		
<b>Проектный семинар</b>				<b>3</b>	<b>114</b>	<b>42</b>	<b>8</b>	<b>14</b>	<b>20</b>		
<b>Проектный семинар (2 курс)</b>				<b>3</b>	<b>114</b>	<b>42</b>	<b>8</b>	<b>14</b>	<b>20</b>		

1	Project Seminar 2	E	Department of Information Technologies in Business	3	114	42	8	14	20A		
	<b>Minor</b>			<b>10</b>	<b>380</b>	<b>112</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	
1	Minor	E		10	380	112	28	28A	28	28A	
	<b>English</b>				<b>228</b>	<b>107</b>	<b>32</b>	<b>32</b>	<b>40</b>	<b>3</b>	
	<b>Optional Courses</b>				<b>228</b>	<b>104</b>	<b>32</b>	<b>32</b>	<b>40</b>		
1	English	O		6	228	104	32	32A	40A		Foreign language, Credits only to the cumulative rating
	<b>Examinations</b>					<b>3</b>				<b>3</b>	
1	Independent English Language Test	C	центр поддержки и мониторинга образовательных программ			3				3A	
	<b>General Courses</b>					<b>90</b>	<b>20</b>	<b>20</b>	<b>26</b>	<b>24</b>	
	<b>Core General Courses</b>					<b>90</b>	<b>20</b>	<b>20</b>	<b>26</b>	<b>24</b>	
1	Physical Training	C	Department of Physical Training			90	20	20A	26	24A	
	<b>Internship</b>			<b>8</b>	<b>304</b>	<b>4</b>			<b>2</b>	<b>2</b>	
	<b>Project Internship</b>			<b>5</b>	<b>190</b>	<b>2</b>			<b>2</b>		
1	Курсовой проект	E	Department of Information Technologies in Business	5	190	2			2A		
	<b>Professional Internship</b>			<b>3</b>	<b>114</b>	<b>2</b>				<b>2</b>	
1	Educational Internship	C		3	114	2				2A	

Academic Supervisor VIKENTOVA O.L. 06.04.2021

Dean ISOPESKUL O.Y. 06.04.2021

Deputy Director ZAGORODNOVA E.P. 06.04.2021

Head of Degree Programmes Development Office MAMONOVA M.A. 14.04.2021

\* Subject type:

Compulsory course

C

Elective course

E

Optional course

O