

## 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

1 st, 2021/2022 academic year

APPROVED by  
Vice RectorROSHCHIN Y.S.  
22.04.2021

Length of Programme: 4 years

Years of Study: 2021/2022 - 2024/2025

Mode of Study: Full Time

Degree: Bachelor's degree

Number of Students: 84

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>2 280</b>	<b>977</b>	<b>198</b>	<b>224</b>	<b>284</b>	<b>271</b>	
	<b>Data Culture</b>					<b>3</b>				<b>3</b>	
1	Independent Digital Competence Assessment. Digital Literacy	C	центр поддержки и мониторинга образовательных программ			3				3A	
	<b>Major</b>			<b>49</b>	<b>1 862</b>	<b>638</b>	<b>132</b>	<b>160</b>	<b>182</b>	<b>164</b>	
	<b>Core Professional Block (Major)</b>			<b>46</b>	<b>1 748</b>	<b>596</b>	<b>132</b>	<b>160</b>	<b>154</b>	<b>150</b>	
	<b>Subject Areas</b>			<b>46</b>	<b>1 748</b>	<b>596</b>	<b>132</b>	<b>160</b>	<b>154</b>	<b>150</b>	
	<b>Algebra</b>			<b>8</b>	<b>304</b>	<b>100</b>	<b>46</b>	<b>54</b>			
1	Algebra	C	Department of Higher Mathematics	8	304	100	46	54A			
	<b>Discrete Mathematics</b>			<b>10</b>	<b>380</b>	<b>140</b>	<b>28</b>	<b>32</b>	<b>40</b>	<b>40</b>	
1	Discrete Mathematics	C	Department of Big Data and Information Retrieval	10	380	140	28	32A	40	40A	
	<b>Mathematical Analysis</b>			<b>8</b>	<b>304</b>	<b>100</b>			<b>50</b>	<b>50</b>	
1	Calculus	C	Department of Higher Mathematics	8	304	100			50A	50A	
	<b>Programming</b>			<b>13</b>	<b>494</b>	<b>176</b>	<b>22</b>	<b>30</b>	<b>64</b>	<b>60</b>	
1	Computer Practice in Python Programming	C	Department of Information Technologies in Business	3	114	58			28	30A	
2	Introduction to Programming	C	Department of Information Technologies in Business	10	380	118	22	30A	36	30A	
	<b>Development and Analysis of Requirements</b>			<b>3</b>	<b>114</b>	<b>32</b>	<b>14</b>	<b>18</b>			
1	Practice in Basics of Technical Documentation Designing	C	Department of Information Technologies in Business	3	114	32	14	18A			
	<b>Software Project Management</b>			<b>4</b>	<b>152</b>	<b>48</b>	<b>22</b>	<b>26</b>			

1	Introduction into Software Engineering	C	Department of Information Technologies in Business	4	152	48	22	26A			
	<b>Elective Professional Block (Major)</b>			<b>3</b>	<b>114</b>	<b>42</b>			<b>28</b>	<b>14</b>	
	<b>Проектный семинар</b>			<b>3</b>	<b>114</b>	<b>42</b>			<b>28</b>	<b>14</b>	
	<b>Проектный семинар (1 курс)</b>			<b>3</b>	<b>114</b>	<b>42</b>			<b>28</b>	<b>14</b>	
1	Project Seminar 1	C	Department of Information Technologies in Business	3	114	42			28	14A	
	<b>English</b>					<b>146</b>	<b>24</b>	<b>32</b>	<b>44</b>	<b>46</b>	
	<b>Optional Courses</b>					<b>144</b>	<b>24</b>	<b>32</b>	<b>44</b>	<b>44</b>	
1	English	O		8		144	24	32A	44	44A	Foreign language, Credits only to the cumulative rating
	<b>Examinations</b>					<b>2</b>				<b>2</b>	
1	English Language Integrative Exam	C	Департамент иностранных языков			2				2A	Foreign language
	<b>General Courses</b>			<b>6</b>	<b>228</b>	<b>188</b>	<b>42</b>	<b>32</b>	<b>58</b>	<b>56</b>	
	<b>Optional General Courses</b>			<b>4</b>	<b>152</b>	<b>30</b>			<b>14</b>	<b>16</b>	
1	History	C	Department of Humanities	4	152	30			14	16A	Online Course
	<b>Core General Courses</b>			<b>2</b>	<b>76</b>	<b>158</b>	<b>42</b>	<b>32</b>	<b>44</b>	<b>40</b>	
1	Safe Living Basics	C	Department of Physical Training	1	38	14	14A				Online Course
2	Physical Training	C	Department of Physical Training	1	38	144	28	32A	44	40A	
	<b>Internship</b>			<b>5</b>	<b>190</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	

Academic Supervisor VIKENTEVA O.L. 06.04.2021

Dean ISOPESKUL O.Y. 07.04.2021

Deputy Director ZAGORODNOVA E.P. 07.04.2021

Head of Degree Programmes Development Office MAMONOVA M.A. 20.04.2021

\* Subject type:

Compulsory course

C

Elective course

E

Optional course

O