

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

## Curriculum

Field of study 09.03.04 "Software Engineering"  
Educational Programme "Software Engineering"APPROVED by  
Vice RectorFaculty of Economics, Management and Business Informatics, Perm  
3rd, 2021/2022 year of study

" \_\_\_\_ " \_\_\_\_\_ 20\_\_ .

Length of Programme: 4 years  
Years of Study: 2019/2020 - 2022/2023  
Mode of Study: Full Time  
Degree: Bachelor's DegreeNumber of Students: 65  
Number of Groups: 3

Block Code	Course	Department	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
						1	2	3	4	
	Degree Programme		60	2380	602	162	174	138	128	
.	General Programme Part			100	0	0	0	0	0	
1	Physical Training	Department of Physical Training		100	90	20	20A	26	24A	
. .	Professional Programme Part (Major)		39	1482	448	120	132	96	100	
. . .	Basic Components		29	1102	332	92	100	64	76	
2	Group Dynamics and Communication in Software Engineering Professional Practice	Department of Software Engineering	4	152	60	28	32A			
3	Software Engineering Economics	Department of Information Technologies in Business	5	190	56			28	28A	
4	Software Quality Assurance and Testing (offered in English)	Department of Information Technologies in Business	5	190	66	32	34A			
5	Development and Analysis of Requirements	Department of Information Technologies in Business	6	228	66	32A	34A			
6	Intellectual Law	Department of Civil and Business Law	4	152	18			2	16A	
7	Software Systems Architecture Design	Department of Information Technologies in Business	5	190	66			34	32A	
.	Elective Courses		10	380	116	28	32	32	24	
	(1 3) (!!)		5	190	60	28	32			
8	Web Programming	Department of Information Technologies in Business	5	190	40	20	20A			
9	Automation of Enterprise Accounting	Department of Information Technologies in Business	5	190	56	26	30A			
10	Machine Learning 1	Department of Big Data and Information Retrieval	5	190	60	28	32A			
	(1 3) (!!)		5	190	56	0	0	32	24	
11	Computer Graphics	Department of Information Technologies in Business	5	190	56			32	24A	

12	Mobile Development	Department of Information Technologies in Business	5	190	50			30	20A	
13	Modern Programming Languages and Technologies	Department of Information Technologies in Business	5	190	56			32	24A	
.	Extra Profile (Minor)		<b>10</b>	<b>380</b>	<b>112</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	
14	Minor		10	380	112	28	28A	28	28A	
.	Internships, Projects and/or Research Activity		<b>11</b>	<b>418</b>	<b>42</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>0</b>	
	Internship		<b>3</b>	<b>114</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	
15	Work Experience Internship		3	114	2				2A	
	Research Seminar/Project Seminar		<b>3</b>	<b>114</b>	<b>42</b>	<b>14</b>	<b>14</b>	<b>14</b>		
16	Research Seminar "Analytics in IoT"	Department of Information Technologies in Business	3	114	42	14	14	14A		
17	Research Seminar "Formal Methods in Software Engineering"	Department of Information Technologies in Business	3	114	42	14	14	14A		
	Term Papers		<b>5</b>	<b>190</b>	<b>0</b>			<b>0</b>		

A Interim assessment