

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, 2020/2021 year of study

" ____ " _____ 20__ .

Length of Programme: 4 years

Years of Study: 2018/2019 - 2021/2022

Mode of Study: Full Time

Degree: Bachelor's Degree

Number of Students: 55

Number of Groups: 2

Block Code	Course	Department	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
						1	2	3	4	
Total Academic Hours of Educational Programme			60	2380	596	162	166	134	134	
Courses of the General Programme Part				100	0					
1	Physical Training	Department of Physical Training		100	94	24	22A	24	24A	
Courses of the Professional Programme Part (Major)			39	1482	442	120	124	92	106	
Basic Components			29	1102	328	92	96	64	76	
13	Group Dynamics and Communication in Software Engineering Professional Practice	Department of Information Technologies in Business	5	190	56	28A	28A			
14	Software Engineering Economics	Department of Information Technologies in Business	5	190	56			28	28A	
15	Software Quality Assurance and Testing (offered in English)	Department of Information Technologies in Business	5	190	66	32	34A			
16	Development and Analysis of Requirements	Department of Information Technologies in Business	5	190	66	32	34A			
17	Intellectual Law	Department of Civil and Business Law	4	152	18			2	16A	
18	Software Systems Architecture Design	Department of Information Technologies in Business	5	190	66			34	32A	
23	Independent English Language Test	Office of Curriculum Support			3				3A	
Elective Courses			10	380	114	28	28	28	30	
Elective Courses (3d Year, 1 Term)			5	190	56	28	28			

1	Computer Graphics	Department of Information Technologies in Business	5	190	56	28	28A			
2	Machine Learning 1	Department of Big Data and Information Retrieval	5	190	60	28	32A			
3	High-Performance Computing	Joint Department of Mathematical Methods in System Analysis with RAS Institute of System Analysis	5	190	60	28	32A			
4	Formal Languages (offered in English)	(!)	3	114	42	42A				
5	Compilers	(!)	4	152	60	28	32A			
Elective Courses (3d Year, 2 Term)			5	190	58			28	30	
1	Mobile Development	(!)	5	190	34			16	18A	
2	Modern Programming Languages and Technologies	Department of Information Technologies in Business	5	190	56			28	28A	
3	Integration, Processing and Visualization of Data	Department of Information Technologies in Business	5	190	56			28	28A	
.	Extra Profile (Minor)		10	380	112	28	28	28	28	28
1	Minor		10	380	112	28	28A	28	28A	
.	Internships, Projects and/or Research Activity		11	418	42	14	14	14		
	Internship		3	114	0				0	
2	Work Experience Internship		3	114	2				2A	
	Research Seminar/Project Seminar		3	114	42	14	14	14		
1	Research Seminar	Department of Information Technologies in Business	3	114	42	14	14	14A		
2	Research Seminar "Formal Methods in Software Engineering"	Department of Information Technologies in Business	3	114	42	14	14	14A		
3	Research Seminar "Analytics in IoT"	Department of Information Technologies in Business	3	114	42	14	14	14A		
4	Research Seminar «Data Analysis Methods in Software Engineering»	Department of Software Engineering	3	114	44	12	12	20A		
5	Research Seminar "Technology of Distributed Ledger Systems"	Department of Software Engineering	3	114	44	12	12	20A		
6	Research Seminar "Data and Knowledge Management"	Department of Software Engineering	3	114	44	12	12	20A		
7	Research Seminar "Cloud Technology"	Department of Software Engineering	3	114	44	12	12	20A		
	Term Papers		5	190	0			0		

A Interim assessment