



National Research University Higher School of Economics (HSE)

Curriculum
 Field of study 09.03.04 Software Engineering
 Educational Programme "Software Engineering"
 Implementing unit: Faculty of Informatics, Mathematics and
 Computer Sciences, HSE - Nizhny Novgorod
 4 th, 2023/2024 academic year

APPROVED
 17.03.2023
 Vice Rector
 ROSHCHIN S.Y.
 Signed with EDS

Length of Programme: 4 years
 Years of Study: 2020/2021 - 2023/2024
 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	
	Degree Programme			60,00	2 280	424	96	104	218	6	
	Major			38,00	1 444	382	84	84	214		
	Core Professional Block (Major)			10,00	380	110	28	28	54		
	Subject Areas			10,00	380	110	28	28	54		
	Mathematical Analysis			3,00	114	10			10		
1	Philosophy of Science	C	Department of Mathematics	3,00	114	10			10A		Online Course
	Organization of Computations			4,00	152	56	28	28			
1	Distributed Computing	C	Joint Department with MERA Group	4,00	152	56	28	28A			
	Programming			3,00	114	44			44		
1	Internet of Things	C	Joint Department with MERA Group	3,00	114	44			44A		Online Course
	Elective Professional Block (Major)			28,00	1 064	272	56	56	160		
	Elective Disciplines (2 of 2)			6,00	228	56	28		28		
1	Computer security	C	Joint Department with MERA Group	3,00	114	28	28A				
2	Computer Networks	C	Joint Department with MERA Group	3,00	114	28			28A		
	Elective Disciplines (2 of 2)			12,00	456	116		28	88		
1	Machine Learning	C	Joint Department with MERA Group	6,00	228	44			44A		
2	Natural Language Processing	C	Joint Department with MERA Group	6,00	228	72		28	44A		Foreign language
	Elective Disciplines (2 of 2)			10,00	380	100	28	28	44		
1	Software Project Management	C	Joint Department with MERA Group	5,00	190	56	28	28A			
2	Fintech trends	C	Joint Department with MERA Group	5,00	190	44			44A		

	English			1,00	38	2			2	
	Optional Courses									
1	Academic Writing in English	O		2,00	76	48		28	20A	Foreign language, Credits only to the cumulative rating
	Examinations			1,00	38	2			2	
1	Project Proposal	C	Joint Department with MERA Group	1,00	38	2			2A	Foreign language
	Final State Certification (FSC)			4,00	152	2				2
	Thesis Work			4,00	152	2				2
1	Presenting of Graduation Thesis	C		4,00	152	2				2A
	General Courses			4,00	152	30	10	20		
	Optional General Courses			4,00	152	30	10	20		
1	Legal Literacy	C	департамент права цифровых технологий и биоправа	4,00	152	30	10	20A		Online Course
	Internship			13,00	494	8	2		2	4
	Research Internship			5,00	190	2				2
1	Preparation of Graduation Thesis	C		5,00	190	2				2
	Project Internship			8,00	304	4			2	2
1	Командный проект студентов	C		3,00	114	2			2A	
2	Graduation Internship	C		5,00	190	2				2A
	Professional Internship					2	2			
1	Work Experience Internship	C				2	2A			

Curriculum agreed:

Academic Supervisor	BYCHKOV I.S.	06.03.2023
Dean	ASEEVA N.V.	06.03.2023
Deputy Director	FOMENKOV D.A.	07.03.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	17.03.2023

* Subject type:

Compulsory course
Elective course
Optional course

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