

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

Curriculum

APPROVED

23.05.2023

Vice Rector

ROSHCHIN S.Y.

Field of study 01.03.02 Applied Mathematics and Information Science,

38.03.05 Business Informatics, 09.03.04 Software Engineering

Educational Programme "Computer Science and Technologies"

Specializations: "Computer Science and Optimization",
"Decision Support Information Systems", "Design and
Development of Enterprise Information Systems", "Development
and Maintenance of High-load Systems", "Industrial IoT",
"Requirements Management and Information Systems
Integration in Business"

Implementing unit: Faculty of Informatics, Mathematics and Computer Sciences, HSE - Nizhny Novgorod

1 st, 2023/2024 academic year

Signed with EDS

Length of Programme: 4 years

Years of Study: 2023/2024 - 2026/2027

Mode of Study: Full Time Degree: Bachelor's degree

						Allocation of Contact Hours					
Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	1	2	3	4	Additional Information
	Degree Progamme				2 480	1 046	242	172	332	300	
	Data Culture			2				2			
1	Independent Digital Literacy Test	С	отдел развития цифровых компетенций			2				2A	Online Course
	Major	53,00	2 014	766	154	140	252	220			
	Core Professional Block (Major)	49,00	1 862	714	154	140	220	200			
1	Algorithms and Data Structures	С	Joint Department with MERA Group	8,00	304	112		28	44A	40A	
2	Discrete Mathematics	С	Department of Applied Mathematics and Information Science	8,00	304	140	28	28A	44	40A	
3	Linear Algebra and Geometry	С	Department of Mathematics	8,00	304	100		28A	44A		
4	Calculus	С	Department of Applied Mathematics and Information Science	8,00	304	140	28	28A	44	40A	
5	General Algebra	С	Department of Fundamental Mathematics	5,00	190	40				40A	
6	C/C++ Programming	С	Joint Department with MERA Group	8,00	304	140	28	28A	44	40A	

7	Sofware Engineering	С	Department of Data Systems and Technologies	4,00	152	42	42A				Online Course
	Elective Professional Block (Major)	4,00	152	52			32	20			
	Research Seminar and/or Project S	4,00	152	52			32	20			
1	Research Seminar "Introduction in Specialty"	С	Department of Data Systems and Technologies	2,00	76	20				20A	
2	Scientific-Practical Seminar "Digital Literacy"	С	Department of Data Systems and Technologies	2,00	76	32			32A		Online Course
	English			2				2			
	Optional Courses										
1	English	0		8,00	304	128	20	28A	40		Foreign language, Credits only to the cumulative rating
	Examinations			2				2			
1	English Language Integrative Exam	С	Департамент иностранных языков			2				2A	
	General Courses	7,00	466	276	88	32	80	76			
	Optional General Courses				228	126	54		36	36	
1	Russian History	С	School of History	4,00	152	72			36	36A	Online Course
2	Foundations of Russian Statehood	С	School of History	2,00	76	54	54A				
	Core General Courses	1,00	238	150	34	32	44	40			
1	Safe Living Basics	С	Department of General and Strategic Management	1,00	38	6	6A	·	·		Online Course
2	Physical Training	С	Department of Physical Training		200	144	28	32A	44	40A	

## Curriculum agreed:

Academic Supervisor ULITIN B.I. 05.05.2023

Dean ASEEVA N.V. 05.05.2023

Deputy Director FOMENKOV D.A. 09.05.2023

Head of Centre for Educational Model Design LEPESHKIN I.A. 19.05.2023

\* Subject type:

Compulsory course

С О Optional course