

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

Curriculum

Field of study 09.03.01 Information Science and Computation Technology

Educational Programme "Information Science and Computation Technology"

Specializations: "Automated systems", "Computer Systems and Networks", "Elements and devices of embedded systems"

Implementing unit: Tikhonov Moscow Institute of Electronics and Mathematics, HSE - Moscow

3 rd, 2023/2024 academic year

Signed with EDS

**APPROVED** 

28.04.2023

Vice Rector

ROSHCHIN S.Y.

Length of Programme: 4 years

Years of Study: 2021/2022 - 2024/2025

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

	Course	Subject Department				Al	llocation of C	ontact Hour			
Block Code			Department	Credits	Total Academic Hours	Contact Hours	1	2	3	4	Additional Information
	Degree Progamme			60,00	1 900	787	154	216	229	188	
	Data Culture			3,00	114	6			6		
1	Programming of Web Services and Embedded Systems	С	School of Computer Engineering	3,00	114	6			6A		Online Course, Foreign language
	Major			36,00	1 368	594	106	158	182	148	
	Core Professional Block (Major)			16,00	608	284	98	150	36		
	Subject Areas				608	284	98	150	36		
	Computing Systems and Computer Networks			3,00	114	76		40	36		
1	Computer Systems and Computer Networks	С	School of Computer Engineering	3,00	114	76		40A	36A		
	Metrology			3,00	114	30		30			
1	Basics of metrology	С	School of Electronic Engineering	3,00	114	30		30A			
	Operating Systems			3,00	114	60	30	30			
1	Operating Systems	С	School of Computer Engineering	3,00	114	60	30	30A			Online Course
	Theory of Automata and Circuitry			4,00	152	92	42	50			
1	Circuit Engineering	С	School of Computer Engineering	4,00	152	92	42A	50A			Online Course
	Electronics			3,00	114	26	26				
1	Electronics	С	School of Electronic Engineering	3,00	114	26	26A				
	Elective Professional Block (Major)			20,00	760	310	8	8	146	148	
	Дисциплины по выбору ОП			4,00	152	70			36	34	

1	Automation of Design Works	С	School of Computer Engineering	4,00	152	70			36	34A	
	Научно-исследовательский и проектный семинар				228	72	8	8	28	28	
1	Project Seminar "Programming Tools and Technologies"	С	School of Computer Engineering	3,00	114	40			20	20A	
2	Project Seminar "Fundamentals of Production Technology and Machine Learning"		School of Computer Engineering	3,00	114	32	8	8A	8	8A	
	Специальные дисциплины блока	направл	пения	10,00	380	168			82	86	
	Автоматизированные системы			10,00	380	168			82	86	
1	Intelligent Data Processing	С	School of Computer Engineering	5,00	190	82			40	42A	
2	Design of the Systems on a Chip	С	School of Computer Engineering	5,00	190	86			42	44A	
	Вычислительные системы и ком	ипьютер		10,00	380	168			82	86	
1	Computer Network Design	С	School of Computer Engineering	5,00	190	86			42	44A	
2	Network Video Technologies	С	School of Computer Engineering	5,00	190	82			40	42A	
	Элементы и устройства встраиваемых систем				380	168			82	86	
1	Microcontroller Systems	С	School of Computer Engineering	5,00	190	86			42	44A	
2	Functional Units of Control Systems and Components	С	School of Computer Engineering	5,00	190	82			40	42A	
	Minor			10,00		152	38	38	38	38	
1	Minor	С		10,00		152	38	38A	38	38A	
	English					3			3		
	Examinations					3			3		
1	] 1 3	С	School of Foreign Languages			3			3A		Foreign language
	General Courses			4,00	152	30	10	20			
	Optional General Courses			4,00	152	30	10	20			
1	Legal Literacy	С	департамент права цифровых технологий и биоправа	4,00	152	30	10	20A			Online Course
	Internship			7,00	266	2				2	
	Project Internship			4,00	152	2				2	
1	Исследовательский или прикладной проект	С		4,00	152	2				2A	
	Professional Internship			3,00	114						
1	Work Experience Internship	С		3,00	114						

## Curriculum agreed:

Academic Supervisor POLESSKIY S.N. 07.04.2023

Dean KROUK E.A. 12.04.2023

Head of Centre for Educational Model Design	LEPESHKIN I.A.				
* Subject type:					
Compulsory course	С				

О

Optional course

28.04.2023