

Length of Programme: 4 years

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

Years of Study: 2022/2023 - 2025/2026

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", "Information and analytical Systems"

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

3 rd, 2024/2025 academic year

APPROVED

19.04.2024

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Degree. Dataneta a 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			60,00	2 280	790	154	218	228	190	
	Data Culture			4,00	152	10		2	6	2	
1	External Examinations on Digital Skills. Final Level	С	отдел развития цифровых компетенций			2		2A			
2	Data Science, AI and Generative Models Independent Test. Intermediate	С	отдел развития цифровых компетенций	1,00	38	2	_		_		Online Course
3	Programming of Web Services and Embedded Systems	С	School of Computer Engineering	3,00	114	6			6A		Online Course, Foreign language
	Major			34,00	1 292	594	106	158	182	148	
	Core Professional Block (Major)			16,00	608	284		150	36		
1	Computer Systems and Computer Networks	С	School of Computer Engineering	3,00	114	76	36A	40A			
2	Operating Systems	С	School of Computer Engineering	3,00	114	60	30	30A			Online Course
3	Basics of metrology	С	School of Electronic Engineering	3,00	114	30		30A			
4	Circuit Engineering	С	School of Computer Engineering	4,00	152	92	42A	50A			Online Course
5	Electronics	С	School of Electronic Engineering	3,00	114	26					
	Elective Professional Block (Major)			18,00	684	310		8	146		
	Дисциплины по выбору ОП				114	70			36	34	

1	Automation of Design Works	С	School of Computer Engineering	3,00	114	70			36	34A	
	Научно-исследовательский и проектный семинар			6,00	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"	С	School of Computer Engineering	3,00	114	32	8	8A	8	8A	
	Специальные дисциплины блока направления				342	168			82	86	
	Elective Courses 3			9,00	342	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	4,00	152	86			42	44A	
	Elective Courses 1			9,00	342	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	4,00	152	82			40	42A	
	Corporate information and analyti			9,00	342	168			82	86	
1	Corporate Information-Analytical Systems	С	Joint Department of Data Analysis Systems with JSC EC-leasing	4,00	152	86			42	44A	
2	Corporate Data Warehouses. Data Integration Methods	С	Joint Department of Data Analysis Systems with JSC EC-leasing	5,00	190	82			40	42A	
	Elective Courses 2			9,00	342	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	4,00	152	82			40	42A	
	Minor			10,00	380	152	38	38	38	38	
1		С		10,00	380	152	38	38A	38	38A	
	English					2			2		
	Examinations					2			2		
1		С	School of Foreign Languages			2			2A		Foreign language
	General Courses			4,00	152	30	10	20			
	Optional General Courses			4,00	152	30	10	20			
1	Legal Literacy	С	департамент теории права и сравнительного правоведения	4,00	152	30	10	20A			Online Course
	Internship			8,00	304	2				2	
	Project Internship			5,00	190	2				2	
1	Research or Applied Project	С		5,00	190	2				2A	
	Professional Internship			3,00	114						
1	Work Experience Internship	С		3,00	114						

Academic Supervisor	POLESSKIY S.N.	01.03.2024
Dean	KROUK E.A.	12.03.2024
Head of Centre for Educational Model Design	LEPESHKIN I.A.	18.04.2024
* Subject type:		

C E O Compulsory course Elective course Optional course