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

2 nd, 2024/2025 academic year

Length of Programme: 4 years
Years of Study: 2023/2024 - 2026/2027
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 Progamme			**60,00**	**2 442**	**1 158**	**222**	**242**	**308**	**386**	
	Data Culture					**6**		**2**	**4**		
1	External Examinations on Digital Skills. Entry-level	C	отдел развития цифровых компетенций			2		2A			
2	External Examinations on Digital Skills. Intermediate Level	C	отдел развития цифровых компетенций			2				2A	
3	Independent Programming Test. Intermediate	C	отдел развития цифровых компетенций			2			2A		Online Course
	Major			**46,00**	**1 748**	**742**	**148**	**166**	**230**	**198**	
	Core Professional Block (Major)			**32,00**	**1 216**	**582**	**120**	**128**	**176**	**158**	
1	Databases	C	School of Computer Engineering	4,00	152	94			54	40A	Online Course
2	Discrete Mathematics	C	Department of Applied Mathematics	4,00	152	60	28	32A			
3	Calculus	C	Department of Applied Mathematics	4,00	152	56	28	28A			
4	Object-Oriented Programming	C	School of Computer Engineering	4,00	152	60	28	32A			
5	Automata Theory and Control	C	School of Computer Engineering	3,00	114	74			40	34A	
6	Probability Theory and Mathematical Statistics	C	Department of Applied Mathematics	3,00	114	72			36	36A	Online Course
7	Physics	C	School of Electronic Engineering	4,00	152	72	36	36A			

No	Subject	Type	Department	Credits	Total						Notes
8	Electronics	C	School of Electronic Engineering	3,00	114	48				48A	
9	Electrical Engineering	C	School of Electronic Engineering	3,00	114	46			46A		
	Elective Professional Block (Major)			**14,00**	**532**	**160**	**28**	**38**	**54**	**40**	
	Дисциплины по выбору ОП			**3,00**	**114**	**6**	**6**				
1	Computer Graphics	C	School of Computer Engineering	3,00	114	6	6A				Online Course
	-			**11,00**	**418**	**154**	**22**	**38**	**54**	**40**	
1	Scientific Research Seminar "Artificial Intelligence in Engineering Education"	C	School of Computer Engineering	3,00	114	28		14	14A		Online Course
2	Project Seminar "Computer Practice in Mathematics"	C	School of Computer Engineering	3,00	114	70	14	16A	20	20A	
3	Project seminar "Practical implementation of the modern technologies for creating information systems"	C	School of Computer Engineering	3,00	114	40			20	20A	
4	Project Seminar "Project Documentation"	C	School of Computer Engineering	2,00	76	16	8	8A			
	Minor			**10,00**	**380**	**152**	**38**	**38**	**38**	**38**	
1	Minor	C		10,00	380	152	38	38A	38	38A	
	English										
	Optional Courses										
1	English	O		6,00	228	100	32	28	40A		Foreign language, Credits only to the cumulative rating
	General Courses			**1,00**	**200**	**144**	**36**	**36**	**36**	**36**	
	Core General Courses			**1,00**	**200**	**144**	**36**	**36**	**36**	**36**	
1	Physical Training	C	Department of Physical Training	1,00	200	144	28	28	44	44A	
	Internship			**3,00**	**114**	**114**				**114**	
	Project Internship			**3,00**	**114**	**114**				**114**	
1	Research or Applied Project	C		3,00	114	114				114A	

Curriculum agreed:

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

* Subject type:
Compulsory course   C
Optional course   O