



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"
 Implementing unit: Tikhonov Moscow Institute of Electronics and
 Mathematics, HSE - Moscow
 2 nd, 2021/2022 academic year

APPROVED
 16.04.2021
 Vice Rector
 ROSHCHIN Y.S.
 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	2 508	1 102	214	220	292	275	
	Major			43	1 634	690	134	144	216	196	
	Core Professional Block (Major)			35	1 330	580	120	128	176	156	
	Subject Areas			35	1 330	580	120	128	176	156	
	Databases			5	190	94			54	40	
1	Databases	C	School of Computer Engineering	5	190	94			54	40A	Online Course
	Discrete Mathematics			4	152	60	28	32			
1	Discrete Mathematics	C	Department of Applied Mathematics	4	152	60	28	32A			
	Mathematical Analysis			4	152	56	28	28			
1	Calculus	C	Department of Applied Mathematics	4	152	56	28	28A			
	Programming			4	152	60	28	32			
1	Object-Oriented Programming	C	School of Computer Engineering	4	152	60	28	32A			
	Theory of Automata and Circuitry			4	152	74			40	34	
1	Automata Theory and Control	C	School of Computer Engineering	4	152	74			40	34A	
	Probability Theory and Mathematical Statistics			4	152	72			36	36	
1	Probability Theory and Mathematical Statistics	C	Department of Applied Mathematics	4	152	72			36	36A	Online Course
	Physics			4	152	72	36	36			
1	Physics	C	School of Electronic Engineering	4	152	72	36	36A			
	Electronics			3	114	46				46	

1	Electronics	C	School of Electronic Engineering	3	114	46				46A	
Electrical Engineering				3	114	46			46		
1	Electrical Engineering	C	School of Electronic Engineering	3	114	46			46A		
Elective Professional Block (Major)				8	304	110	14	16	40	40	
Научно-исследовательский/Проектный семинар				8	304	110	14	16	40	40	
1	Project Seminar "Computer Practice in Mathematics"	C	School of Computer Engineering	5	190	70	14	16	20	20A	
2	Project Seminar "Design Basics for Computing Devices and Systems"	C	School of Computer Engineering	3	114	40			20	20A	
Minor				10	380	152	38	38	38	38	
1	Minor	C		10	380	152	38	38A	38	38A	
English					228	104				3	
Optional Courses					228	104					
1	English	O		6	228	104	28	32A	44		Foreign language, Credits only to the cumulative rating
General Courses				1	38	144	36	36	36	36	
Core General Courses				1	38	144	36	36	36	36	
1	Physical Training	C	Department of Physical Training	1	38	144	36	36	36	36A	
Internship				6	228	12	6	2	2	2	
Project Internship				3	114	8	2	2	2	2	
1	Исследовательский или прикладной проект	E		3	114	8	2	2	2	2A	
Professional Internship				3	114	4	4				
1	Computer Graphics	C	School of Computer Engineering	3	114	4	4A				Online Course

Curriculum agreed:

Academic Supervisor	POLESSKIY S.N.	07.04.2021
Dean	KROUK E.A.	07.04.2021
Head of Degree Programmes Development Office	MAMONOVA M.A.	15.04.2021

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O