



National Research University Higher School of Economics (HSE)

Curriculum
 Speciality 10.05.01 Cyber Security
 Educational Programme "Cyber Security"
 Specializations: "Development of Secure Software",
 "Mathematical Methods of Information Security"
 Implementing unit: Tikhonov Moscow Institute of Electronics and
 Mathematics, HSE - Moscow
 1 st, 2023/2024 academic year

APPROVED
 31.05.2023
 Vice Rector
 ROSHCHIN S.Y.
 Signed with EDS

Length of Programme: 6 years
 Years of Study: 2023/2024 - 2028/2029
 Mode of Study: Full Time
 Degree: Specialist'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				60,00	2 480	1 154	230	300	340	296	
Data Culture				3,00	114	18	8	8	2		
1	Data-Culture	C	Department of Applied Mathematics	3,00	114	16	8	8A			
2	Independent Digital Literacy Test	C	отдел развития цифровых компетенций			2			2A		Online Course
Major				50,00	1 900	846	168	202	266	222	
Core Professional Block (Major)				47,00	1 786	782	168	170	234	222	
1	Hardware Computer Technology	C	Department of Computer Security	3,00	114	52			32	20A	
2	Geometry	C	Department of Applied Mathematics	3,00	114	54	26	28A			
3	Discrete Mathematics	C	Department of Computer Security	4,00	152	48			24	24A	
4	Computer Science	C	Department of Computer Security	6,00	228	48	24	24A			
5	Linear Algebra	C	Department of Applied Mathematics	6,00	228	112	24	24A	32	32A	
6	Calculus	C	Department of Applied Mathematics	9,00	342	180	40	40A	50	50A	
7	Physics	C	School of Electronic Engineering	6,00	228	72			36	36A	
8	Programming Languages	C	Department of Applied Mathematics	10,00	380	216	48	48A	60	60A	
Elective Professional Block (Major)				3,00	114	64		32	32		
Дисциплины по выбору ОП				3,00	114	64		32	32		

1	Introduction to Number Theory	C	Department of Computer Security	3,00	114	64		32	32A		
	English					2				2	
	Optional Courses										
1	English	O		8,00	304	128	20	28A	40	40A	Foreign language, Credits only to the cumulative rating
	Examinations					2				2	
1	English Language Integrative Exam	C	School of Foreign Languages			2				2A	Foreign language
	General Courses			7,00	466	288	54	90	72	72	
	Optional General Courses			6,00	228	126		54	36	36	
1	Russian History	C	School of History	4,00	152	72			36	36A	Online Course
2	Foundations of Russian Statehood	C	School of History	2,00	76	54		54A			
	Core General Courses			1,00	238	162	54	36	36	36	
1	Safe Living Basics	C	центр поддержки студенческих инициатив	1,00	38	18	18A				Online Course
2	Physical Training	C	Department of Physical Training		200	144	36	36	36	36A	

Curriculum agreed:

Academic Supervisor	LOS A.B.	02.05.2023
Dean	KROUK E.A.	02.05.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	30.05.2023

* Subject type:

Compulsory course
 Elective course
 Optional course

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