



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 10.03.01 Information Security

Educational Programme "Information Security"

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

2 nd, 2022/2023 academic year

APPROVED

08.04.2022

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2021/2022 - 2024/2025

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			60,00	2 062	942	202	218	262	260	
	Major			39,00	1 482	642	128	144	186	184	
	Core Professional Block (Major)			29,00	1 102	476	114	120	122	120	
	Subject Areas			29,00	1 102	476	114	120	122	120	
	Mathematical Analysis			4,00	152	56	28	28			
1	Calculus	C	Department of Applied Mathematics	4,00	152	56	28	28A			
	Modeling			14,00	532	234	36	36	82	80	
1	Information Theory	C	кафедра информационной безопасности киберфизических систем	4,00	152	80			40	40A	
2	Physics	C	School of Electronic Engineering	4,00	152	72	36	36A			
3	Electronics and Electric Engineering	C	School of Electronic Engineering	6,00	228	82			42	40A	
	Fundamentals of Information Security			6,00	228	106	50	56			
1	Cryptographic Methods of Information Security	C	кафедра информационной безопасности киберфизических систем	6,00	228	106	50	56A			
	Probability Theory and Mathematical Statistics			5,00	190	80			40	40	
1	Probability Theory and Mathematical Statistics	C	Department of Applied Mathematics	5,00	190	80			40	40A	
	Elective Professional Block (Major)			10,00	380	166	14	24	64	64	
	Дисциплины по выбору ОП			3,00	114	80			40	40	
1	Systems and Networks of Information Transfer	C	кафедра информационной безопасности киберфизических систем	3,00	114	80			40	40A	Online Course
	Научно-исследовательский и проектный семинар			7,00	266	86	14	24	24	24	

1	Project Seminar	C	кафедра информационной безопасности киберфизических систем	7,00	266	86	14A	24	24	24A	
	Minor			10,00		152	38	38	38	38	
1	Minor	C		10,00		152	38	38A	38	38A	
	English										
	Optional Courses										
1	English	O		6,00	228	104	28	32A	44		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	36	36	36	36A	
	Internship			10,00	380	4			2	2	
	Research Internship			5,00	190	2			2		
1	Educational Science Research Internship	C		5,00	190	2			2A		
	Project Internship			5,00	190	2				2	
1	Исследовательский или прикладной проект	E		5,00	190	2				2A	

Curriculum agreed:

Academic Supervisor	IVANOV F.I.	31.03.2022
Dean	KROUK E.A.	01.04.2022
Head of Degree Programmes Development Office	LEPESHKIN I.A.	07.04.2022

* Subject type:

Compulsory course
Elective course
Optional course

C
E
O