



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

3 rd, 2023/2024 academic year

APPROVED

28.04.2023

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	2 280	601	118	150	191	138	
Data Culture						2				2	
1	Independent Programming Test. Advanced Level	C	отдел развития цифровых компетенций			2				2A	Online Course
Major				33,00	1 254	380	66	96	130	84	
Core Professional Block (Major)				15,00	570	198	36	66	66	30	
Subject Areas				15,00	570	198	36	66	66	30	
Algorithmisation and Programming				7,00	266	90		30	30	30	
1	System Programming	C	кафедра информационной безопасности киберфизических систем	7,00	266	90		30	30A	30A	
Modeling				8,00	304	108	36	36	36		
1	Digital Circuitry and System Architecture	C	кафедра информационной безопасности киберфизических систем	8,00	304	108	36A	36	36A		
Elective Professional Block (Major)				18,00	684	182	30	30	64	54	
Дисциплины по выбору ОП				15,00	570	170	30	30	52	54	
1	Machine Learning	C	кафедра информационной безопасности киберфизических систем	5,00	190	60	30	30A			Foreign language
2	Software and Hardware Information Protection	C	кафедра информационной безопасности киберфизических систем	5,00	190	68			34	34A	
3	Intrusion Detection Systems	C	кафедра информационной безопасности киберфизических систем	5,00	190	42			20	22A	
Научно-исследовательский и проектный семинар				3,00	114	12			12		

1	Project Seminar	C	кафедра информационной безопасности киберфизических систем	3,00	114	12			12A		
	Minor			10,00	380	152	38	38	38	38	
1	Minor	C		10,00	380	152	38	38A	38	38A	
	English					3			3		
	Examinations					3			3		
1	Independent English Exam	C	School of Foreign Languages			3			3A		Foreign language
	General Courses			8,00	304	60	14	16	20	10	
	Optional General Courses			8,00	304	60	14	16	20	10	
1	Legal Literacy	C	департамент права цифровых технологий и биоправа	4,00	152	30			20	10A	Online Course
2	Economics	C	Department of Theoretical Economics	4,00	152	30	14	16A			Online Course
	Internship			9,00	342	4				4	
	Project Internship			5,00	190	2				2	
1	Project	E		5,00	190	2				2A	
	Professional Internship			4,00	152	2				2	
1	Work Experience Internship	C		4,00	152	2				2A	

Curriculum agreed:

Academic Supervisor IVANOV F.I. 20.03.2023

Dean KROUK E.A. 24.03.2023

Head of Centre for Educational Model Design LEPESHKIN I.A. 28.04.2023

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O