



National Research University Higher School of Economics (HSE)

Basic Curriculum

Field of study 10.04.01 Information Security

Educational Programme "Cybersecurity"

Trajectories: "Cybersecurity"

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

Years of Study: 2023/2024 - 2024/2025

Length of Programme: 2 years

Mode of Study: Full Time

Degree: Master's degree / MBA

APPROVED

25.05.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Block Code	Course	Subject type	Credits	Credits by Years		Planned Educational Programme Development Results
				1	2	
	Degree Programme		120,00	60,00	60,00	
	Cybersecurity (Applied track)		120,00	60,00	60,00	
	Key Seminars		24,00	12,00	12,00	
1	Mentor's Seminar	C	9,00	6,00	3,00	GPC-1.INS, GPC-2.INS, GPC-3.INS, GPC-4.INS, GPC-5.INS, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6
2	Project Seminar on Cyber Security	C	15,00	6,00	9,00	GPC-1.INS, GPC-2.INS, GPC-3.INS, GPC-4.INS, GPC-5.INS, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6
	Internship		30,00	12,00	18,00	
	Professional Internship		12,00	12,00		
1	Work Experience Internship	C	12,00	12,00		GPC-1.INS, GPC-2.INS, GPC-3.INS, GPC-4.INS, GPC-5.INS, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6
	Research Internship		18,00		18,00	
1	Graduation Thesis	C	18,00		18,00	GPC-1.INS, GPC-2.INS, GPC-3.INS, GPC-4.INS, GPC-5.INS, PC-1, PC-2, PC-3, PC-4, PC-5, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6
	Major		51,00	30,00	21,00	
	Compulsory Courses		45,00	30,00	15,00	
1	Cryptographic Methods of Information Security	C	9,00	9,00		GPC-3.INS, GPC-5.INS, PC-3, PC-5, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6
2	Regulatory support for cyber security	C	6,00	6,00		PC-1, PC-3, UC-1, UC-3

3	Python Programming	C	6,00	6,00		GPC-1.INS, GPC-2.INS, GPC-3.INS, PC-3, PC-5, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6
4	Protection of computer networks and systems	C	18,00	9,00	9,00	GPC-2.INS, GPC-4.INS, PC-3, PC-5, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6
5	Attack detection and incident management technologies	C	6,00		6,00	GPC-1.INS, GPC-2.INS, GPC-3.INS, GPC-4.INS, PC-2, PC-4, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6
	Elective Courses		6,00		6,00	
1	Development of protected software systems	E	6,00		6,00	GPC-1.INS, GPC-2.INS, GPC-3.INS, GPC-4.INS, GPC-5.INS
2	Network Information Security Tools	E	6,00		6,00	GPC-1.INS, GPC-2.INS, GPC-3.INS, GPC-4.INS, GPC-5.INS
	Magolego		9,00	6,00	3,00	
1	All-university Pool MAGOLEGO Courses	E	9,00	6,00	3,00	GPC-1.INS, GPC-2.INS, GPC-3.INS, GPC-4.INS, GPC-5.INS
	Final State Certification (FSC)		6,00		6,00	
1	Final Qualification Paper	C	6,00		6,00	GPC-1.INS, GPC-2.INS, GPC-3.INS, GPC-4.INS, GPC-5.INS, PC-1, PC-2, PC-3, PC-4, PC-5, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6

**Curriculum agreed:**

Academic Supervisor	EVSYUTIN O.O.	22.05.2023
Dean	KROUK E.A.	22.05.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	25.05.2023

\* Subject type:

Compulsory course	C
Elective course	E