



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, 2023/2024 academic year

APPROVED

17.04.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2022/2023 - 2025/2026

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	
<b>Degree Programme</b>				<b>60,00</b>	<b>2 442</b>	<b>992</b>	<b>222</b>	<b>222</b>	<b>314</b>	<b>230</b>	
<b>Data Culture</b>						<b>4</b>					
1	External Examinations on Digital Skills. Entry-level	C	отдел развития цифровых компетенций			2		2A			
2	External Examinations on Digital Skills. Intermediate Level	C	отдел развития цифровых компетенций			2				2A	
<b>Major</b>				<b>40,00</b>	<b>1 520</b>	<b>688</b>	<b>148</b>	<b>148</b>	<b>238</b>	<b>154</b>	
<b>Core Professional Block (Major)</b>				<b>26,00</b>	<b>988</b>	<b>452</b>	<b>126</b>	<b>126</b>	<b>142</b>	<b>58</b>	
1	Cryptographic Methods of Information Security	C	кафедра информационной безопасности киберфизических систем	6,00	228	122	28	28	48A	18A	
2	Calculus	C	Department of Applied Mathematics	4,00	152	56	28	28A			
3	Probability Theory and Mathematical Statistics	C	Department of Applied Mathematics	6,00	228	122	34A	34	54A		
4	Information Theory	C	кафедра информационной безопасности киберфизических систем	6,00	228	80			40	40A	
5	Physics	C	School of Electronic Engineering	4,00	152	72	36	36A			
<b>Elective Professional Block (Major)</b>				<b>14,00</b>	<b>532</b>	<b>236</b>	<b>22</b>	<b>22</b>	<b>96</b>	<b>96</b>	
<b>Дисциплины по выбору ОП</b>				<b>14,00</b>	<b>532</b>	<b>236</b>	<b>22</b>	<b>22</b>	<b>96</b>	<b>96</b>	
1	Development of Secure Applications	C	кафедра информационной безопасности киберфизических систем	8,00	304	116	22	22A	36	36A	
2	Systems and Networks of Information Transfer	C	кафедра информационной безопасности киберфизических систем	6,00	228	120			60	60A	Foreign language

	<b>Minor</b>			<b>10,00</b>	<b>380</b>	<b>152</b>	<b>38</b>	<b>38</b>	<b>38</b>	<b>38</b>	
1	Minor	E		10,00	380	152	38	38A	38	38A	
	<b>English</b>										
	<b>Optional Courses</b>										
1	English	O		6,00	228	104	28	32	44A		Foreign language, Credits only to the cumulative rating
	<b>General Courses</b>			<b>1,00</b>	<b>200</b>	<b>144</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	
	<b>Optional General Courses</b>										
1	Elective General Courses	E									
	<b>Core General Courses</b>			<b>1,00</b>	<b>200</b>	<b>144</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	
1	Physical Training	C	Department of Physical Training	1,00	200	144	36	36	36	36A	
	<b>Internship</b>			<b>9,00</b>	<b>342</b>	<b>4</b>			<b>2</b>	<b>2</b>	
	<b>Research Internship</b>			<b>6,00</b>	<b>228</b>	<b>2</b>			<b>2</b>		
1	Educational Science Research Internship	C		6,00	228	2			2A		
	<b>Project Internship</b>			<b>3,00</b>	<b>114</b>	<b>2</b>				<b>2</b>	
1	Research or Applied Project	C		3,00	114	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.	13.04.2023

\* Subject type:

Compulsory course  
 Elective course  
 Optional course

C  
 E  
 O