



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 10.04.01 Information Security

Educational Programme "Information Security of Cyber-physical Systems"

Trajectories: "Information Security of Cyber-physical Systems"

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

1 st, 2023/2024 academic year

APPROVED

16.05.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 2 years

Years of Study: 2023/2024 - 2024/2025

Mode of Study: Full Time

Degree: Master's degree / MBA

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>2 280</b>	<b>386</b>	<b>104</b>	<b>110</b>	<b>90</b>	<b>86</b>	
<b>Information Security of Cyber-physical Systems (General track)</b>				<b>60,00</b>	<b>2 280</b>	<b>386</b>	<b>104</b>	<b>110</b>	<b>90</b>	<b>86</b>	
<b>Major</b>				<b>36,00</b>	<b>1 368</b>	<b>300</b>	<b>88</b>	<b>92</b>	<b>64</b>	<b>60</b>	
<b>Components of the Field of Study</b>				<b>24,00</b>	<b>912</b>	<b>196</b>	<b>36</b>	<b>40</b>	<b>64</b>	<b>60</b>	
1	Protection of computer networks and systems	C	кафедра информационной безопасности киберфизических систем	12,00	456	100	18	20A	32	30A	
2	Development of protected software systems	C	кафедра информационной безопасности киберфизических систем	12,00	456	96		24A	36	36A	
<b>Elective Courses</b>				<b>12,00</b>	<b>456</b>	<b>104</b>	<b>52</b>	<b>52</b>			
1	Secure Operating Systems	E	кафедра информационной безопасности киберфизических систем	6,00	228	52	24A	28A			
2	Cryptographic Protocols	E	кафедра информационной безопасности киберфизических систем	6,00	228	52	24	28A			
3	Regulatory support for information security	E	кафедра информационной безопасности киберфизических систем	6,00	228	52	24	28A			
<b>Key Seminars</b>				<b>6,00</b>	<b>228</b>	<b>82</b>	<b>16</b>	<b>18</b>	<b>24</b>	<b>24</b>	
1	Project Seminar	C	кафедра информационной безопасности киберфизических систем	3,00	114	62	12	14	18	18A	
2	Mentor's Seminar	C	кафедра информационной безопасности киберфизических систем	3,00	114	20	4	4	6	6A	

	<b>Magolego</b>			<b>9,00</b>	<b>342</b>					
1	All-university Pool MAGOLEGO Courses	C		9,00	342					
	<b>Internship</b>			<b>9,00</b>	<b>342</b>	<b>4</b>			<b>2</b>	<b>2</b>
	<b>Project Internship</b>			<b>6,00</b>	<b>228</b>	<b>2</b>				<b>2</b>
1	Project	C		6,00	228	2				2A
	<b>Professional Internship</b>			<b>3,00</b>	<b>114</b>	<b>2</b>			<b>2</b>	
1	Work Experience Internship	C		3,00	114	2			2A	

**Curriculum agreed:**

Academic Supervisor	EVSYUTIN O.O.	10.05.2023
Dean	KROUK E.A.	11.05.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	16.05.2023

\* Subject type:

Compulsory course

C

Elective course

E