



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 09.03.01 Information Science and Computation  
Technology

Educational Programme "Computer Technologies, Systems and  
Networks"

Implementing unit: School of Computer Science, Physics and  
Technology, HSE - Saint Petersburg

4 th, 2027/2028 academic year

APPROVED

21.05.2025

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2024/2025 - 2027/2028

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>2 280</b>	<b>544</b>	<b>168</b>	<b>204</b>	<b>166</b>	<b>6</b>	
<b>Major</b>				<b>34,00</b>	<b>1 292</b>	<b>472</b>	<b>144</b>	<b>168</b>	<b>160</b>		
<b>Core Professional Block (Major)</b>				<b>11,00</b>	<b>418</b>	<b>168</b>	<b>112</b>	<b>56</b>			
1	Metrology, Standardization and Certification	C	Informatics Department	3,00	114	48	48A				
2	Communication Networks and Systems	C	Informatics Department	4,00	152	60	32	28A			
3	The Theory of Noise-tolerant Coding	C	Informatics Department	4,00	152	60	32	28A			
<b>Elective Professional Block (Major)</b>				<b>23,00</b>	<b>874</b>	<b>304</b>	<b>32</b>	<b>112</b>	<b>160</b>		
<b>Вариативный профессиональный (Major)</b>				<b>8,00</b>	<b>304</b>	<b>108</b>		<b>28</b>	<b>80</b>		
1	Intelligent Methods of Ensuring Network Security	C	Informatics Department	4,00	152	68		28	40A		
2	Special Sections of Coding Theory	C	Informatics Department	4,00	152	40			40A		Foreign language
<b>Elective Courses</b>				<b>15,00</b>	<b>570</b>	<b>196</b>	<b>32</b>	<b>84</b>	<b>80</b>		
1	Database Security	E	Informatics Department	5,00	190	60	32	28A			
2	Protection of Information Processes in Computer Systems	E	Informatics Department	5,00	190	60	32	28A			
3	Cryptographic Protocols	E	Informatics Department	5,00	190	60	28	32A			
4	Software-defined Radio	C	Informatics Department	5,00	190	68		28	40A		
5	Mobile Communication Networks and Systems	E	Informatics Department	5,00	190	68		28	40A		
6	Steganography Technologies in Infocommunication Systems	E	Informatics Department	5,00	190	68		28	40A		
<b>Final State Certification (FSC)</b>				<b>3,00</b>	<b>114</b>	<b>2</b>				<b>2</b>	
<b>Thesis Work</b>				<b>3,00</b>	<b>114</b>	<b>2</b>				<b>2</b>	

1	Presenting of Graduation Thesis	C		3,00	114	2				2A	
<b>General Courses</b>				<b>7,00</b>	<b>266</b>	<b>60</b>	<b>24</b>	<b>36</b>			
<b>Optional General Courses</b>				<b>7,00</b>	<b>266</b>	<b>60</b>	<b>24</b>	<b>36</b>			
1	Legal Literacy	C	департамент теории права и сравнительного правоведения	3,00	114	30	10	20A			Online Course
2	Economics	C	Department of Theoretical Economics	4,00	152	30	14	16A			Online Course
<b>Internship</b>				<b>15,00</b>	<b>570</b>	<b>8</b>			<b>4</b>	<b>4</b>	
<b>Research Internship</b>				<b>12,00</b>	<b>456</b>	<b>6</b>			<b>2</b>	<b>4</b>	
1	Preparation of Graduation Thesis	C		9,00	342	4			2	2A	
2	Graduation Internship	C		3,00	114	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		
<b>Language and Communication</b>				<b>1,00</b>	<b>38</b>	<b>2</b>			<b>2</b>		
<b>Optional Courses</b>											
1	Academic Writing in English	O		2,00	76	54	16	18	20A		Foreign language, Credits only to the cumulative rating
<b>Examinations</b>				<b>1,00</b>	<b>38</b>	<b>2</b>			<b>2</b>		
1	Project Proposal	C	Informatics Department	1,00	38	2			2A		Foreign language

**Curriculum agreed:**

Academic Supervisor	Овчинников А.А.	20.04.2025
Dean		20.04.2025
Deputy Director	KUZMIN P.V.	21.04.2025
Head of Centre for Educational Model Design	LEPESHKIN I.A.	21.05.2025

\* Subject type:

Compulsory course  
Elective course  
Optional course

C  
E  
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