

## National Research University Higher School of Economics (HSE)

Curriculum

Field of study 09.03.01 Information Science and Computation  
TechnologyEducational Programme "Information Science and Computation  
Technology"Tikhonov Moscow Institute of Electronics and Mathematics,  
HSE - Moscow

1 st, 2021/2022 academic year

APPROVED by

Vice Rector

ROSHCHIN Y.S.

13.04.2021

Length of Programme: 4 years

Years of Study: 2021/2022 - 2024/2025

Mode of Study: Full Time

Degree: Bachelor's degree

Number of Students: 160

Number of Groups: 6

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</b>	<b>2 584</b>	<b>1 061</b>	<b>182</b>	<b>240</b>	<b>347</b>	<b>292</b>	
<b>Data Culture</b>						<b>3</b>			<b>3</b>		
1	Independent Digital Competence Assessment. Digital Literacy	C	центр поддержки и мониторинга образовательных программ			3			3A		
<b>Major</b>				<b>52</b>	<b>1 976</b>	<b>668</b>	<b>76</b>	<b>140</b>	<b>242</b>	<b>210</b>	
<b>Core Professional Block (Major)</b>				<b>45</b>	<b>1 710</b>	<b>606</b>	<b>76</b>	<b>140</b>	<b>200</b>	<b>190</b>	
<b>Subject Areas</b>				<b>45</b>	<b>1 710</b>	<b>606</b>	<b>76</b>	<b>140</b>	<b>200</b>	<b>190</b>	
<b>Algebra and Geometry</b>				<b>5</b>	<b>190</b>	<b>84</b>			<b>44</b>	<b>40</b>	
1	Algebra and Geometry	C	Department of Applied Mathematics	5	190	84			44	40A	
<b>Algorithmisation</b>				<b>12</b>	<b>456</b>	<b>142</b>	<b>20</b>	<b>36</b>	<b>44</b>	<b>42</b>	
1	Algorithmization and Programming	C	School of Computer Engineering	12	456	140	20	36A	44	40A	Online Course
2	Курсовая работа по дисциплине Курсовая работа по дисциплине "Алгоритмизация и программирование"	C				2				2A	
<b>Computer Science</b>				<b>4</b>	<b>152</b>	<b>56</b>	<b>28</b>	<b>28</b>			
1	Computer Science	C	School of Computer Engineering	4	152	56	28	28A			
<b>Mathematical Analysis</b>				<b>12</b>	<b>456</b>	<b>188</b>	<b>28</b>	<b>40</b>	<b>60</b>	<b>60</b>	
1	Calculus	C	Department of Applied Mathematics	12	456	188	28	40A	60	60A	

	<b>Physics</b>			<b>12</b>	<b>456</b>	<b>136</b>		<b>36</b>	<b>52</b>	<b>48</b>	
1	Physics	C	School of Electronic Engineering	12	456	136		36	52A	48A	
	<b>Elective Professional Block (Major)</b>			<b>7</b>	<b>266</b>	<b>62</b>			<b>42</b>	<b>20</b>	
	<b>Научно-исследовательский и проектный семинар</b>			<b>7</b>	<b>266</b>	<b>62</b>			<b>42</b>	<b>20</b>	
1	Project Seminar "Python in the science of data"	C	School of Computer Engineering	5	190	42			22	20A	
2	Project Seminar 1	C	School of Computer Engineering	2	76	20			20A		
	<b>English</b>				<b>304</b>	<b>146</b>	<b>24</b>	<b>32</b>	<b>44</b>	<b>46</b>	
	<b>Optional Courses</b>				<b>304</b>	<b>144</b>	<b>24</b>	<b>32</b>	<b>44</b>	<b>44</b>	
1	English	O		8	304	144	24	32A	44	44A	Foreign language, Credits only to the cumulative rating
	<b>Examinations</b>					<b>2</b>				<b>2</b>	
1	English Language Integrative Exam	C	School of Foreign Languages			2				2A	Foreign language
	<b>General Courses</b>			<b>5</b>	<b>190</b>	<b>192</b>	<b>68</b>	<b>52</b>	<b>36</b>	<b>36</b>	
	<b>Optional General Courses</b>			<b>4</b>	<b>152</b>	<b>30</b>	<b>14</b>	<b>16</b>			
1	History	C	Department of Humanities	4	152	30	14	16A			Online Course
	<b>Core General Courses</b>			<b>1</b>	<b>38</b>	<b>162</b>	<b>54</b>	<b>36</b>	<b>36</b>	<b>36</b>	
1	Safe Living Basics	C	центр поддержки студенческих инициатив	1	38	18	18A				Online Course
2	Physical Training	C	Department of Physical Training			144	36	36	36	36A	
	<b>Internship</b>			<b>3</b>	<b>114</b>	<b>52</b>	<b>14</b>	<b>16</b>	<b>22</b>		
	<b>Research Internship</b>			<b>3</b>	<b>114</b>	<b>52</b>	<b>14</b>	<b>16</b>	<b>22</b>		
1	Computer Practice in Engineering Graphics	C	School of Computer Engineering	3	114	52	14	16	22A		

Academic Supervisor POLESSKIY S.N. 30.03.2021

Dean KROUK E.A. 31.03.2021

Head of Degree Programmes Development Office MAMONOVA M.A. 13.04.2021

\* Subject type:

Compulsory course

C

Optional course

O