

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

Curriculum

Field of study 03.03.02 Physics

Educational Programme "Physics"

St. Petersburg School of Mathematics, Physics and Computer  
Science, HSE, HSE - Saint Petersburg

1 st, 2020/2021 academic year

APPROVED by  
Vice Rector

ROSHCHIN Y.S.

Length of Programme: 4 years

Years of Study: 2020/2021 - 2023/2024

Mode of Study: Full Time

Degree: Bachelor's degree

Number of Students: 28

Number of Groups: 1

Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
							1	2	3	4	
1	Students' research seminar	C	департамент физики	7	266	72					
	<b>Degree Programme</b>			<b>60</b>	<b>2 584</b>	<b>1 229</b>	<b>266</b>	<b>250</b>	<b>340</b>	<b>373</b>	
	<b>Data Culture</b>			<b>3</b>	<b>114</b>	<b>60</b>	<b>14</b>	<b>12</b>	<b>18</b>	<b>16</b>	
1	Python Programming Language	C	департамент информатики	3	114	60	14	12	18	16A	
	<b>Major</b>			<b>47</b>	<b>1 786</b>	<b>806</b>	<b>174</b>	<b>166</b>	<b>206</b>	<b>260</b>	
	<b>Core Professional Block (Major)</b>			<b>40</b>	<b>1 520</b>	<b>734</b>	<b>174</b>	<b>166</b>	<b>206</b>	<b>188</b>	
	<b>Subject Areas</b>			<b>40</b>	<b>1 520</b>	<b>734</b>	<b>174</b>	<b>166</b>	<b>206</b>	<b>188</b>	
	<b>Mathematics</b>			<b>19</b>	<b>722</b>	<b>432</b>	<b>98</b>	<b>84</b>	<b>132</b>	<b>118</b>	
1	Linear Algebra	C	департамент информатики	8	304	184		48	72A	64A	
2	Calculus	C	департамент информатики	8	304	192	42A	36A	60A	54A	
3	Methods of Theoretical Physics	C	департамент физики	3	114	56	56A				
	<b>General Physics</b>			<b>18</b>	<b>684</b>	<b>290</b>	<b>76</b>	<b>70</b>	<b>74</b>	<b>70</b>	
1	Mechanics	C	департамент физики	9	342	146	76A	70A			
2	Electricity and Magnetism	C	департамент физики	9	342	144			74A	70A	
	<b>Theoretical Physics</b>			<b>3</b>	<b>114</b>	<b>12</b>		<b>12</b>			
1	Mathematical Methods in Physics	C	департамент физики	3	114	12		12A			
	<b>Elective Professional Block (Major)</b>			<b>7</b>	<b>266</b>	<b>72</b>				<b>72</b>	
	<b>Научно-исследовательский семинар (НИС)</b>			<b>7</b>	<b>266</b>	<b>72</b>				<b>72</b>	
1	Students' research seminar	C	департамент физики	7	266	72				72A	
	<b>English</b>				<b>304</b>	<b>147</b>	<b>24</b>	<b>32</b>	<b>44</b>	<b>47</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	Credits only to the cumulative rating
	<b>Examinations</b>					<b>3</b>				<b>3</b>	

1	English Language Integrative Exam	C	департамент иностранных языков			3				3A	
<b>General Courses</b>				<b>10</b>	<b>380</b>	<b>216</b>	<b>54</b>	<b>40</b>	<b>72</b>	<b>50</b>	
<b>Optional General Courses</b>				<b>8</b>	<b>304</b>	<b>26</b>	<b>6</b>		<b>20</b>		
1	Introduction to Law	C	департамент теории права и межатраслевых юридических дисциплин	4	152	20			20A		Online Course
2	Economics	C	Department of Theoretical Economics	4	152	6	6A				Online Course
<b>Core General Courses</b>				<b>2</b>	<b>76</b>	<b>190</b>	<b>48</b>	<b>40</b>	<b>52</b>	<b>50</b>	
1	Safe Living Basics	C	отдел развития образовательных программ	1	38	6	6A				Online Course
2	Physical Training	C	Department of Physical Training	1	38	184	42	40A	52	50A	Online Course

Academic Supervisor

SHENDEROVICH I.E.

Dean

OMELCHENKO A.V.

Deputy Director

CHICHERINA N.V.

Head of Degree Programmes  
Development Office

MAMONOVA M.A.

\* Subject type:

Compulsory course

C

Elective course

E

Optional course

O