



National Research University Higher School of Economics (HSE)

Curriculum  
 Field of study 04.03.01 Chemistry  
 Educational Programme "Chemistry"  
 Implementing unit: Faculty of Chemistry, HSE - Moscow  
 2 nd, 2022/2023 academic year

APPROVED

Vice Rector  
 ROSHCHIN S.Y.  
 Signed with EDS

Length of Programme: 4 years  
 Years of Study: 2021/2022 - 2024/2025  
 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>2 350</b>	<b>871</b>	<b>146</b>	<b>234</b>	<b>310</b>	<b>181</b>	
<b>Data Culture</b>				<b>7,00</b>	<b>266</b>	<b>65</b>			<b>54</b>	<b>11</b>	
1	Machine Search of Information in Chemistry	C	Faculty of Chemistry	3,00	114	40				40A	
2	Independent Programming Test. Intermediate	C	Center for Support and Monitoring of Degree Programs			3				3A	
3	Introduction into Python	C	Department of Big Data and Information Retrieval	4,00	152	22			14	8A	Online Course
<b>Major</b>				<b>32,00</b>	<b>1 216</b>	<b>572</b>	<b>82</b>	<b>168</b>	<b>206</b>	<b>116</b>	
<b>Core Professional Block (Major)</b>				<b>32,00</b>	<b>1 216</b>	<b>572</b>	<b>82</b>	<b>168</b>	<b>206</b>	<b>116</b>	
<b>Subject Areas</b>				<b>32,00</b>	<b>1 216</b>	<b>572</b>	<b>82</b>	<b>168</b>	<b>206</b>	<b>116</b>	
<b>Mathematics</b>				<b>11,00</b>	<b>418</b>	<b>212</b>	<b>28</b>	<b>32</b>	<b>76</b>	<b>76</b>	
1	Calculus	C	Department of Higher Mathematics	7,00	266	132	28	32A	36	36A	
2	Probability Theory and Mathematical Statistics	C	Department of Higher Mathematics	4,00	152	80			40	40A	
<b>Organic Chemistry</b>				<b>17,00</b>	<b>646</b>	<b>300</b>	<b>24</b>	<b>106</b>	<b>130</b>	<b>40</b>	
1	Organic Chemistry	C	Faculty of Chemistry	17,00	646	300	24A	106	130A	40A	Online Course
<b>Physics</b>				<b>4,00</b>	<b>152</b>	<b>60</b>	<b>30</b>	<b>30</b>			
1	Physics	C	School of Electronic Engineering	4,00	152	60	30	30A			
<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	32A	44		Credits only to the cumulative rating
<b>General Courses</b>				<b>4,00</b>	<b>222</b>	<b>78</b>	<b>26</b>	<b>28</b>	<b>12</b>	<b>12</b>	

	<b>Optional General Courses</b>			<b>4,00</b>	<b>152</b>	<b>30</b>	<b>14</b>	<b>16</b>			
1	Экономика	C	Department of Theoretical Economics	4,00	152	30	14	16A			Online Course
	<b>Core General Courses</b>				<b>70</b>	<b>48</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	
1	Physical Training	C	Department of Physical Training		70	48	12	12	12	12A	
	<b>Internship</b>			<b>7,00</b>	<b>266</b>	<b>4</b>				<b>4</b>	
	<b>Research Internship</b>			<b>3,00</b>	<b>114</b>	<b>2</b>				<b>2</b>	
1	Курсовая работа по органической химии	C		3,00	114	2				2A	
	<b>Project Internship</b>			<b>4,00</b>	<b>152</b>	<b>2</b>				<b>2</b>	
1	Научно-исследовательские проекты	E		4,00	152	2				2A	

**Curriculum agreed:**

Academic Supervisor

YAROSLAVTSEV A.B.

Dean

KOTOV V.I.

Head of Degree Programmes  
Development Office

MAMONOVA M.A.

\* Subject type:

Compulsory course

C

Elective course

E

Optional course

O