



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

1 st, 2023/2024 academic year

APPROVED

10.05.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2023/2024 - 2026/2027

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>1 240</b>	<b>294</b>	<b>316</b>	<b>346</b>	<b>284</b>	
<b>Data Culture</b>				<b>7,00</b>	<b>266</b>	<b>120</b>	<b>26</b>	<b>34</b>	<b>40</b>	<b>20</b>	
1	Information Technology in Chemistry	C	базовая кафедра органической химии Института органической химии им.Н.Д. Зелинского РАН	4,00	152	96	26	34	36A		
2	Independent Digital Literacy Test	C	отдел развития цифровых компетенций			2				2A Online Course	
3	Digital Literacy	C	Department of Big Data and Information Retrieval	3,00	114	22			4	18A Online Course	
<b>Major</b>				<b>41,00</b>	<b>1 558</b>	<b>754</b>	<b>124</b>	<b>210</b>	<b>234</b>	<b>186</b>	
<b>Core Professional Block (Major)</b>				<b>41,00</b>	<b>1 558</b>	<b>754</b>	<b>124</b>	<b>210</b>	<b>234</b>	<b>186</b>	
1	Linear Algebra and Geometry	C	Department of Higher Mathematics	7,00	266	132	28	32A	36	36A	
2	Calculus	C	Department of Higher Mathematics	7,00	266	132	28	32A	36	36A	
3	Essentials of Physical Chemistry	C	базовая кафедра неорганической химии и материаловедения Института общей и неорганической химии им. Н.С. Курнакова РАН	4,00	152	68		24	44A		
4	Theoretical Inorganic Chemistry and Chemistry of the Elements	C	базовая кафедра неорганической химии и материаловедения Института общей и неорганической химии им. Н.С. Курнакова РАН	17,00	646	314	68A	90A	80A	76A	

5	Physics	C	School of Electronic Engineering	6,00	228	108		32	38A	38A	
	<b>English</b>					2				2	
	<b>Optional Courses</b>										
1	English Language	O		8,00	304	128	20	28A	40	40A	Foreign language, Credits only to the cumulative rating
	<b>Examinations</b>					2				2	
1	English Language Integrative Exam	C	School of Foreign Languages			2				2A	Foreign language
	<b>General Courses</b>			<b>4,00</b>	<b>152</b>	<b>360</b>	<b>144</b>	<b>72</b>	<b>72</b>	<b>72</b>	
	<b>Optional General Courses</b>			<b>2,00</b>	<b>76</b>	<b>54</b>	<b>54</b>				
1	Foundations of Russian Statehood	C	School of History	2,00	76	54	54A				
	<b>Core General Courses</b>			<b>2,00</b>	<b>76</b>	<b>306</b>	<b>90</b>	<b>72</b>	<b>72</b>	<b>72</b>	
1	Safe Living Basics	C	центр поддержки студенческих инициатив	1,00	38	18	18A				Online Course
2	Physical Training	C	Department of Physical Training	1,00	38	288	72	72	72	72A	
	<b>Internship</b>			<b>8,00</b>	<b>304</b>	<b>4</b>				<b>4</b>	
	<b>Research Internship</b>			<b>3,00</b>	<b>114</b>	<b>2</b>				<b>2</b>	
	<b>General Elements of Practical Training</b>			<b>3,00</b>	<b>114</b>	<b>2</b>				<b>2</b>	
1	Term Paper in Inorganic Chemistry	C		3,00	114	2				2A	
	<b>Project Internship</b>			<b>5,00</b>	<b>190</b>	<b>2</b>				<b>2</b>	
1	Research Project	C		5,00	190	2				2A	

**Curriculum agreed:**

Academic Supervisor	Shapovalov S.S.	04.05.2023
Dean	KOTOV V.I.	04.05.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	05.05.2023

\* Subject type:

Compulsory course

C

Elective course

E

Optional course

O