

National Research University Higher School of Economics (HSE)

Curriculum

Field of study 04.03.01 Chemistry

Educational Programme "Chemistry"

Specialization: "Functional Materials and Petroleum Chemistry",
"Organic and Organometallic Chemistry"

Faculty of Chemistry, HSE - Moscow

2 nd, 2021/2022 academic year

APPROVED by
Vice RectorROSHCHIN Y.S.
29.03.2021

Length of Programme: 4 years

Years of Study: 2020/2021 - 2023/2024

Mode of Study: Full Time

Degree: Bachelor's degree

Number of Students: 40

Number of Groups: 2

Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
							1	2	3	4	
Degree Programme				60	2 508	1 069	200	288	364	217	
Data Culture				7	266	60			40	20	
1	Python for Data Extraction and Data Mining	C	Department of Big Data and Information Retrieval	4	152	20				20A	Online Course
2	Machine Search of Information in Chemistry	C	Faculty of Chemistry	3	114	40			40A		
Major				31	1 178	572	82	168	206	116	
Core Professional Block (Major)				31	1 178	572	82	168	206	116	
Subject Areas				31	1 178	572	82	168	206	116	
Mathematics				11	418	212	28	32	76	76	
1	Calculus	C	Department of Higher Mathematics	7	266	132	28	32A	36	36A	
2	Probability Theory and Mathematical Statistics	C	Department of Higher Mathematics	4	152	80			40	40A	
Organic Chemistry				16	608	300	24	106	130	40	
1	Organic Chemistry	C	Faculty of Chemistry	16	608	300	24A	106	130	40A	Online Course
Physics				4	152	60	30	30			
1	Physics	C	School of Electronic Engineering	4	152	60	30	30A			
Minor				10	380	152	38	38	38	38	
1	Minor	E		10	380	152	38	38A	38	38A	
English					228	107	28	32	44	3	
Optional Courses					228	104	28	32	44		
1	English	O		6	228	104	28	32A	44		Credits only to the cumulative rating
Examinations						3				3	

1	Independent English Language Test	C	Office of Curriculum Support			3				3A	
	General Courses			5	190	174	52	50	36	36	
	Optional General Courses			4	152	30	16	14			
1	Economics	C	Department of Theoretical Economics	4	152	30	16	14A			Online Course
	Core General Courses			1	38	144	36	36	36	36	
1	Physical Training	C	Department of Physical Training	1	38	144	36	36	36	36A	
	Internship			7	266	4				4	
	Research Internship			3	114	2				2	
1	Курсовая работа по органической химии	C		3	114	2				2A	
	Project Internship			4	152	2				2	
1	Научно-исследовательские проекты	E		4	152	2				2A	

Academic Supervisor

YAROSLAVTSEV A.B.

25.03.2021

Dean

KOTOV V.I.

25.03.2021

Head of Degree Programmes
Development Office

MAMONOVA M.A.

29.03.2021

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O