



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 05.03.02 Geography

Educational Programme "Geography of Global Changes and Geoinformation Technology"

Specializations: "Geoinformation Technology and Spatial Modeling", "Global Environmental and Climate Change", "Human Geography and Spatial Decisions"

Implementing unit: Faculty of Geography and Geoinformation Technology, HSE - Moscow

4 th, 2024/2025 academic year

APPROVED

02.05.2024

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	
	Degree Programme			60,00	2 280	296	122	126	144	4	
	Major			36,00	1 368	256	106	110	140		
	Core Professional Block (Major)			6,00	228	28	28				
	Subject Areas			6,00	228	28	28				
	Fundamentals of Digital Mapping, Geoinformatics and Remote Sensing Techniques			6,00	228	28	28				
1	Digital Twins and AI in Geography	C	Faculty of Geography and Geoinformation Technology	6,00	228	28	28A				
	Elective Professional Block (Major)			30,00	1 140	228	78	110	140		
	Дисциплины специализаций			6,00	228	88	28	60			
	Геоинформационные технологии и пространственное моделирование			6,00	228	120	60	60			
1	Web Cartography and Web-GIS	C	Faculty of Geography and Geoinformation Technology	3,00	114	60	30	30A			
2	Spatial Data Management	C	Faculty of Geography and Geoinformation Technology	3,00	114	60	30	30A			
	Глобальные изменения природной среды и климата			6,00	228	100	50	50			
1	Introduction to Climate System Modeling	C	Faculty of Geography and Geoinformation Technology	3,00	114	56	28	28A			
2	Research Seminar "Systems of Data Monitoring and Databases"	C	Faculty of Geography and Geoinformation Technology	3,00	114	44	22	22A			
	Общественная география			6,00	228	116	60	56			
1	Spatial Planning	C	Faculty of Geography and Geoinformation Technology	3,00	114	60	32	28A			

2	Regional Economy	C	Faculty of Geography and Geoinformation Technology	3,00	114	56	28	28A		
Общие дисциплины по выбору				6,00	228		22	22	56	
Elective courses 4th year				6,00	228		22	22	56	
Block 1				3,00	114	56	28	28		
1	Internet of Things for Environmental Monitoring	E	Faculty of Geography and Geoinformation Technology	3,00	114	56	28	28A		
2	Institutional Economics	E	Department of Applied Economics	3,00	114	56	28	28A		
3	Data Exploration Platforms for Urban and Spatial Planning	E	Faculty of Geography and Geoinformation Technology	3,00	114	60	30	30A		
Block 2				3,00	114	44	22	22	44	
1	Urban Climate Modelling	E	Faculty of Geography and Geoinformation Technology	3,00	114	44			44A	
2	Operational and Sensor Mapping	E	Faculty of Geography and Geoinformation Technology	3,00	114	40			40A	
3	Statistical Methods for Spatial Analysis	E	Faculty of Geography and Geoinformation Technology	3,00	114	44			44A	
Семинары и профориентационные дисциплины				18,00	684	140	28	28	84	
1	Research Seminar "Science Communications"	C	Faculty of Geography and Geoinformation Technology	6,00	228	44			44A	
2	Research Seminar "Theoretical Geography"	C	Faculty of Geography and Geoinformation Technology	6,00	228	56	28A	28A		
3	Project Management	C	Faculty of Geography and Geoinformation Technology	6,00	228	40			40A	Foreign language
English				1,00	38	2			2	
Optional Courses										
1	Academic English Writing	O		2,00	76	48		28	20A	Foreign language, Credits only to the cumulative rating
Examinations				1,00	38	2			2	
1	Project Proposal	C	School of Foreign Languages	1,00	38	2			2A	Foreign language
Final State Certification (FSC)				6,00	228	2			2	
Thesis Work				6,00	228	2			2	
1	Presenting of Graduation Thesis	C		6,00	228	2			2A	
General Courses				4,00	152	30	14	16		
Optional General Courses				4,00	152	30	14	16		
1	Philosophy	C	Школа философии и культурологии	4,00	152	30	14	16A		Online Course
Internship				13,00	494	6	2		2	2
Research Internship				13,00	494	6	2		2	2
1	Work Experience Internship	C				2	2A			
2	Preparation of Graduation Thesis	C		6,00	228	2				2
3	Graduation Internship	C		7,00	266	2			2A	

Curriculum agreed:

Academic Supervisor

Matasov V.M.

26.03.2024

Dean	KURICHEV N.K.	26.03.2024
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Head of Centre for Educational Model Design	LEPESHKIN I.A.	26.04.2024
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* Subject type:

Compulsory course

C

Elective course

E

Optional course

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