



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

2 nd, 2025/2026 academic year

APPROVED

07.05.2025

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2024/2025 - 2027/2028

Mode of Study: Full Time

Degree: Bachelor's degree

Block Code	Course	Subject type	Department	Period of execution	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
								1	2	3	4	
	Degree Programme				60,00	2 380	976	244	236	254	246	
	Data Culture				3,00	114	42	40	2		4	
1	Introduction to Python for Data Science	C	Faculty of Geography and Geoinformation Technology		3,00	114	40	40A				
2	Independent Programming Test. Intermediate	C	отдел развития цифровых компетенций				2				2A	Online Course
	Major				38,00	1 444	768	162	194	212	200	
	Core Professional Block (Major)				31,00	1 178	670	138	176	184	172	
	Disciplines on the basics of physical and social geography				18,00	684	340	84	84	88	84	
	Disciplines on the basics of social geography				10,00	380	168	42	42	44	40	
1	Geography of Rural Space	C	Faculty of Geography and Geoinformation Technology		3,00	114	42		42A			
2	Political and Sociological Approaches in Geography	C	Faculty of Geography and Geoinformation Technology		4,00	152	84			44A	40A	
3	Theories of Urban Development	C	Faculty of Geography and Geoinformation Technology		3,00	114	42	42A				
	Disciplines on the basics of physical geography				8,00	304	172	42	42	44	44	
1	Earth System Components: Ocean and Cryosphere	C	Faculty of Geography and Geoinformation Technology		4,00	152	84	42A	42A			
2	Earth System Components: Paleogeography and Landscape Ecology	C	Faculty of Geography and Geoinformation Technology		4,00	152	88			44A	44A	
	Disciplines on the basics of digital cartography, geoinformation technologies and remote sensing methods				7,00	266	182	54	60	40	28	
1	Spatial data integration, visualization and analysisSpatial data integration, visualization and analysis	C	Faculty of Geography and Geoinformation Technology		4,00	152	124	28	28A	40	28A	

2	Remote Sensing Fundamentals: Applied Aspects	C	Faculty of Geography and Geoinformation Technology		3,00	114	58	26A	32A			
	Math Disciplines				6,00	228	148		32	56	60	
1	Probability Theory and Mathematical Statistics	C	Department of Applied Economics		6,00	228	148		32A	56	60A	
	Elective Professional Block (Major)				7,00	266	98	24	18	28	28	
	Общие дисциплины по выбору				4,00	152	56			28	28	
	Elective Subjects for the 2nd Year				4,00	152	56			28	28	
1	Spatial Information Crowdsourcing	E	Faculty of Geography and Geoinformation Technology		4,00	152	56			28	28A	
2	Physical Geography Research Methods	E	Faculty of Geography and Geoinformation Technology		4,00	152	56			28	28A	
3	Economic Geography and Regional Analysis	E	Faculty of Geography and Geoinformation Technology		4,00	152	56			28A	28A	
	Seminars and Career Guidance Disciplines				3,00	114	42	24	18			
	Research Seminars				3,00	114	42	24	18			
1	Research Seminar «Basics of Geographical Research»	C	Faculty of Geography and Geoinformation Technology		3,00	114	42	24	18A			
	Minor				10,00	380	80	20	20	20	20	
1	Minor	E			10,00	380	80	20	20A	20	20A	
	General Courses					100	80	20	20	20	20	
	Core General Courses					100	80	20	20	20	20	
1	Physical Training	C	Department of Physical Training			100	80	20	20	20	20A	
	Internship				9,00	342	4	2			2	
	Project Internship				4,00	152	2				2	
1	Geographic Research Methods Project	C		F	4,00	152	2				2A	
	Professional Internship				5,00	190	2	2				
1	Field Practice 1	C		F			2	2A				
2	Field Practice 2	C		F	5,00	190						
	Language and Communication						2			2		
	Optional Courses											
1	English	O			6,00	228	96	28	28	40A		Foreign language, Credits only to the cumulative rating
	Examinations						2			2		
1	Independent Russian Exam	C	School of Foreign Languages				2			2A		

Curriculum agreed:

Academic Supervisor	Matasov V.M.	31.03.2025
Dean	KURICHEV N.K.	31.03.2025
Head of Centre for Educational Model Design	LEPESHKIN I.A.	30.04.2025

* Subject type:
Compulsory course

C

Elective course	E
Optional course	O

Period of execution:

Fixed	F
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