



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

3 rd, 2024/2025 academic year

APPROVED

02.05.2024

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2022/2023 - 2025/2026

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>896</b>	<b>220</b>	<b>224</b>	<b>222</b>	<b>230</b>	
<b>Data Culture</b>				<b>1,00</b>	<b>38</b>	<b>6</b>		<b>2</b>		<b>4</b>	
1	External Examinations on Digital Skills. Final Level	C	отдел развития цифровых компетенций			2		2A			
2	Data Science, AI and Generative Models Independent Test. Intermediate	C	отдел развития цифровых компетенций	1,00	38	2				2A	Online Course
3	Independent Programming Test. Intermediate	C	отдел развития цифровых компетенций			2				2A	Online Course
<b>Major</b>				<b>37,00</b>	<b>1 406</b>	<b>660</b>	<b>170</b>	<b>174</b>	<b>156</b>	<b>160</b>	
<b>Core Professional Block (Major)</b>				<b>19,00</b>	<b>722</b>	<b>292</b>	<b>112</b>	<b>116</b>	<b>32</b>	<b>32</b>	
<b>Disciplines on the basics of physical and social geography</b>				<b>13,00</b>	<b>494</b>	<b>180</b>	<b>56</b>	<b>60</b>	<b>32</b>	<b>32</b>	
<b>Disciplines on the basics of social geography</b>				<b>3,00</b>	<b>114</b>	<b>60</b>	<b>28</b>	<b>32</b>			
1	Spatial Organization of the World Economy	C	Department of World Economy	3,00	114	60	28	32A			Foreign language
<b>Disciplines on the basics of physical geography</b>				<b>10,00</b>	<b>380</b>	<b>120</b>	<b>28</b>	<b>28</b>	<b>32</b>	<b>32</b>	
1	Historical Geography and Land Use Change	C	Faculty of Geography and Geoinformation Technology	5,00	190	64			32	32A	
2	History of Human-Nature Interactions	C	Faculty of Geography and Geoinformation Technology	5,00	190	56	28	28A			
<b>Disciplines on the basics of digital cartography, geoinformation technologies and remote sensing methods</b>				<b>6,00</b>	<b>228</b>	<b>112</b>	<b>56</b>	<b>56</b>			
1	Spatial Modeling and Machine Learning	C	Faculty of Geography and Geoinformation Technology	6,00	228	112	56	56A			

	<b>Elective Professional Block (Major)</b>			<b>18,00</b>	<b>684</b>	<b>368</b>	<b>58</b>	<b>58</b>	<b>124</b>	<b>128</b>	
	<b>Дисциплины специализаций</b>			<b>12,00</b>	<b>456</b>	<b>248</b>	<b>30</b>	<b>30</b>	<b>92</b>	<b>96</b>	
	<b>Геоинформационные технологии и пространственное моделирование</b>			<b>12,00</b>	<b>456</b>	<b>248</b>	<b>30</b>	<b>30</b>	<b>92</b>	<b>96</b>	
1	Research Seminar "Open GIS"	C	Faculty of Geography and Geoinformation Technology	3,00	114	56			28	28A	
2	Research Seminar "Thematic Mapping"	C	Faculty of Geography and Geoinformation Technology	3,00	114	60	30	30A			
3	Thematic Interpretation of Distance Information	C	Faculty of Geography and Geoinformation Technology	3,00	114	72			34	38A	
4	Spatial Data Management	C	Faculty of Geography and Geoinformation Technology	3,00	114	60			30	30A	
	<b>Глобальные изменения природной среды и климата</b>			<b>12,00</b>	<b>456</b>	<b>256</b>	<b>28</b>	<b>28</b>	<b>100</b>	<b>100</b>	
1	Agroecology and Soil Quality Assessment	C	Faculty of Geography and Geoinformation Technology	3,00	114	64			32	32A	
2	Modeling Ecosystem Processes	C	Faculty of Geography and Geoinformation Technology	3,00	114	80			40	40A	
3	Research Seminar of Institute of Geography the Russian Academy of Sciences	C	Faculty of Geography and Geoinformation Technology	6,00	228	112	28A	28	28A	28A	
	<b>Общественная география</b>			<b>12,00</b>	<b>456</b>	<b>272</b>	<b>28</b>	<b>28</b>	<b>108</b>	<b>108</b>	
1	Research Seminar «Fundamentals of public and local governance»	C	School of Politics and Governance	3,00	114	56	28	28A			
2	Research Seminar "Economic and Geographical Analysis of Industries"	C	Faculty of Geography and Geoinformation Technology	3,00	114	56			28	28A	
3	Theory and Methods of Cultural Geography	C	Faculty of Geography and Geoinformation Technology	3,00	114	80			40	40A	
4	Theory and Methods of Political Geography	C	Faculty of Geography and Geoinformation Technology	3,00	114	64			40	24A	
	<b>Общие дисциплины по выбору</b>			<b>6,00</b>	<b>228</b>	<b>120</b>	<b>28</b>	<b>28</b>	<b>32</b>	<b>32</b>	
	<b>Дисциплины по выбору для 3 курса</b>			<b>6,00</b>	<b>228</b>	<b>120</b>	<b>28</b>	<b>28</b>	<b>32</b>	<b>32</b>	
	<b>Block 1</b>			<b>3,00</b>	<b>114</b>	<b>56</b>	<b>28</b>	<b>28</b>			
1	Geomarketing and Analysis of Territory	E	Faculty of Geography and Geoinformation Technology	3,00	114	54	26	28A			
2	Legal grounds of investment and environmental activities	E	Faculty of Geography and Geoinformation Technology	3,00	114	56	28	28A			
3	Natural Resource Management	E	Faculty of Geography and Geoinformation Technology	3,00	114	56	28	28A			
	<b>Block 2</b>			<b>3,00</b>	<b>114</b>	<b>64</b>			<b>32</b>	<b>32</b>	
1	Map design	E	Faculty of Geography and Geoinformation Technology	3,00	114	60			30	30A	
2	Basics of Demography and Population Geography	E	Department of Demography	3,00	114	72			40	32A	
3	Natural Risk Management and Environmental Assessment	E	Faculty of Geography and Geoinformation Technology	3,00	114	64			32	32A	
	<b>Minor</b>			<b>10,00</b>	<b>380</b>	<b>80</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	
1	Minor	E		10,00	380	80	20	20A	20	20A	

	<b>English</b>					<b>2</b>			<b>2</b>		
	<b>Examinations</b>					<b>2</b>			<b>2</b>		
1	Independent English Exam	C	School of Foreign Languages			2			2A		Foreign language
	<b>General Courses</b>			<b>1,00</b>	<b>38</b>	<b>144</b>	<b>28</b>	<b>28</b>	<b>44</b>	<b>44</b>	
	<b>Core General Courses</b>			<b>1,00</b>	<b>38</b>	<b>144</b>	<b>28</b>	<b>28</b>	<b>44</b>	<b>44</b>	
1	Physical Training	C	Department of Physical Training	1,00	38	144	28	28	44	44A	
	<b>Internship</b>			<b>11,00</b>	<b>418</b>	<b>4</b>	<b>2</b>			<b>2</b>	
	<b>Research Internship</b>			<b>7,00</b>	<b>266</b>						
1	Work Experience Internship	C		7,00	266						
	<b>Project Internship</b>			<b>4,00</b>	<b>152</b>	<b>2</b>				<b>2</b>	
1	Geographic Research Methods Project	C		4,00	152	2				2A	
	<b>Professional Internship</b>					<b>2</b>	<b>2</b>				
1	Field Practice 2	C				2	2A				

**Curriculum agreed:**

Academic Supervisor Matasov V.M. 26.03.2024

Dean KURICHEV N.K. 26.03.2024

Head of Centre for Educational Model Design LEPESHKIN I.A. 26.04.2024

\* Subject type:

Compulsory course

C

Elective course

E

Optional course

O