

MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE REPUBLIC
OF KAZAKHSTAN
M.Auezov SOUTH KAZAKHSTAN UNIVERSITY

«APPROVED»
Chairman of the Board-Rector

Ph.D. in history, academic Dr. Kozhamzharova D.P.,
"___" _____ 20 y.

EDUCATION PROGRAMME

7M05220 - Geography

Registration number	7M015200065
Code and classification of the field of education	7M05 - Natural sciences, mathematics and statistics
Code and classification of training areas	7M052 - Environment
Education Programme Group	M084 - Geography
Type of EP	Current
Level according to	7
Level according to NRC	7
Level according to OPC	7
The language of instruction	kazakh, russian
Labour input of the EP	120 credits
Distinguishing features of the EP	-
Partner university (SOP)	-
Partner university (VPO)	-

Shymkent, 2023.

Developers:

FULL NAME.	position	Signature
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The educational programme was reviewed in the field of "Natural sciences, mathematics and statistics" at the meeting of the academic committee, protocol No. _____ of "___"20_____

Chairman of the AC _____ Madiyarov N.K.

Considered and recommended for approval at the meeting of the Educational and Methodological Council of SKU named after M.Auezov
 Protocol No. _____ of "___" _____ 2023 y.

Chairmen of the GMC _____ Abisheva R.D.

Approved by decision of the Academic Council of the University
 Protocol No. _____ of "___" _____ 20_____ y.

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1 PROGRAMME CONCEPT

Mission of the University	We are focused on generating new competencies, training a leader who translates research thinking and culture.
University Values	<ul style="list-style-type: none"> • Openness - open to change, innovation and cooperation. • Creativity - generates ideas, develops them and turns them into values • Academic freedom - free to choose, develop and act. • Partnership - creates trust and support in a relationship where everyone wins. • Social responsibility - ready to fulfill obligations, make decisions and be responsible for their results.
Graduate Model	<ul style="list-style-type: none"> • In-depth subject knowledge and its application and continuous expansion in professional activities. • Information and digital literacy and mobility in a fast-changing environment. • Research skills, creativity and emotional intelligence. • Entrepreneurship, autonomy and responsibility for their own activities and well-being. • Global and national citizenship, tolerance of cultures and languages.
Uniqueness of the EP	<p>* Orientation to the regional labour market and social order by shaping the graduate's professional competences adjusted to the stakeholder's requirements.</p> <p>Practical orientation and emphasis on the development of critical thinking and entrepreneurial skills, forming a wide range of skills that will enable to be functionally literate and competitive in any life situation and to be in demand in the labour market.</p>
Academic Integrity and Ethics Policy	<p>The University has taken measures to maintain academic integrity and academic freedom, protection from any kind of intolerance and discrimination:</p> <p>Rules of academic integrity (Order No. 212-ҢК dated 10.10.2022); Anti-Corruption Standard (Order No. 221-ҢК dated 07.12.2021). Code of Ethics (order No. 212-ҢК dated 10.10.2022). Anti-Corruption Policy of the NJSC “M. Auezov South Kazakhstan University.” (order No. 144 нк dated 07.14.2022).</p>
Regulatory and legal framework for the development of EP	<p>1. "On Education" No. 319-III dated July 27, 2007;</p> <p>2. Standard rules of activity of educational organizations implementing educational programs of higher and (or) postgraduate education, approved by Order of the Ministry of Education and Science of the Republic of Kazakhstan dated October 30, 2018 No. 595</p> <p>3. State obligatory standards of higher and postgraduate education, approved by order of the Ministry of Education and Science of the Republic of Kazakhstan dated July 20.2022 No. 2;</p> <p>4. Rules for the organization of the educational process on credit technology of training, approved by the Order of the Ministry of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152;</p> <p>5. Qualification directory of positions of managers, specialists and other employees, approved by the Order of the Minister of Labor and Social Protection of the Population of the Republic of Kazakhstan on December 30, 2020 No. 553.</p> <p>6. Guidelines for the use of ECTS.</p>

	7. Guidelines for the development of educational programs of higher and postgraduate education, Appendix 1 to the order of the Director of the Central Research Institute No. 45 o/d dated June 30, 2021
Organisation of the educational process	<ul style="list-style-type: none"> – Implementation of the principles of the Bologna Process – Student-centered learning – Availability – Inclusivity
Quality assurance of EP	<ul style="list-style-type: none"> – Internal quality assurance system – Involvement of stakeholders in the development of the EP and its evaluation – Systematic monitoring – Updating the content (updating)
Requirements for applicants	They are established according to the Standard Rules of admission to training in educational organizations implementing educational programs of higher and postgraduate education Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 600 dated 31.10.2018
Conditions for the implementation of educational programs (EP) for persons with disabilities and special educational needs(SSN)	<p>For students with SEN (special educational needs) and persons with disabilities (PSI), tactile PVC tiles, specially equipped toilets, a mnemonic diagram, and shower bars have been installed in educational buildings and student dormitories. Special parking spaces have been created. Crawler lift installed. There are desks for people with limited mobility (PLM), signs indicating the direction of movement, ramps. In the educational buildings (main building, building No. 8) there are 2 rooms with six working places adapted for users with disorders of the musculoskeletal system (DMS). For visually impaired users, the SARA™ CE Machine (2 pcs.) is available for scanning and reading books. The library website is adapted for the visually impaired. There is a special NVDA audio program with a service. The JIC website http://lib.ukgu.kz/ is open 24/7.</p> <p>An individual differentiated approach is provided for all types of classes and in the organization of the educational process.</p>

2 EDUCATION PROGRAMME PASSPORT

Purpose of the EP	Preparation of highly qualified masters with in-depth scientific and pedagogical knowledge, able to plan and carry out scientific, pedagogical and production activities in various branches of geography.
Objectives of the EP	<ol style="list-style-type: none"> 1.To deepen theoretical, practical and individual training in the chosen direction of geographical science and pedagogy; 2.Formation of scientific thinking and world outlook; 3. Mastering the basics of research and experimental methods of observation and analysis of geographical processes and phenomena; 4.Mastering and applying in practice innovative technologies for studying geographical patterns; 5.Expansion of knowledge on applied and theoretical directions of geographical science.
Harmonisation of the EP	<ul style="list-style-type: none"> • Level 7 of the National Qualifications Framework; • Dublin Descriptors Level 7 qualifications; • Cycle 2 of the A Framework for Qualification of the European Higher Education Area; • Level 7 of the European Qualifications Framework for Lifelong Learning (The European Qualifications Framework for Lifelong Learning).
Linking EP to the professional sphere	Sectoral Qualifications Framework Education, approved by Minutes No. 2 of the meeting of the Sectoral Tripartite Commission on Social Partnership and Regulation of Social and Labour Relations under the Ministry of Education and Science of the Republic of Kazakhstan, dated 23 November 2016.
Name of degree to be awarded	Upon successful completion of this degree programme, the graduate is awarded a Master of Natural Sciences e in Educational Programme 7M05220-Geography.
List of qualifications and positions	Masters may hold positions in special and higher educational institutions without any work experience requirements in accordance with the qualification requirements of the Qualification Handbook of Positions of Managers, Specialists and Other Employees, approved by Order No. 513 of the Minister of Labour and Social Protection of the Republic of Kazakhstan dated 30 December 2020.
The scope of professional activities	The area of professional activity is public administration bodies related to the organisation of research, design, production, control and examination, administrative and pedagogical activities.

Objects of professional activity	Design, survey, research institutes, tourism firms, nature conservation and environmental management bodies of the Ministry of Environmental Protection (MEP), specialised and higher education institutions.
Subjects of professional activity	<ul style="list-style-type: none"> - Theoretical and methodological foundations of physical and economic-social geography; - Planning, organization and implementation of scientific and pedagogical activities; - Expertise of natural, natural-anthropogenic, economic and territorial-industrial systems at regional and local levels; - Definition of geographical bases and ecological criteria of interaction between the society and the nature;
Types of professional activity	<ul style="list-style-type: none"> Research and development; design and production activities; and expert and analytical activity; organisational and managerial; tourism and recreation; educational (pedagogical). Research and diagnosis of problems, forecasts, goals and situations in the sphere of scientific and pedagogical activity; Innovative activities in the field of science and education
Learning outcomes	<p>LO1. Analyze ideological and methodological problems in the field of natural sciences, various facts and phenomena on the basis of a unified systematic scientific worldview using the provisions and categories of the philosophy of science.</p> <p>LO2. Demonstrate proficiency in a foreign language in interpersonal communication and professional activity.</p> <p>LO3. Evaluate the development and formation of personnel in the organization, possess socio-psychological technologies for managing mass behavior.</p> <p>LO4. Apply effective teaching methods in the field of geography, critically evaluate the scientific organization of the work of a higher school teacher.</p> <p>LO5. Apply geographical research activities to solve regional and global geoeological problems using physical and geographical methods.</p> <p>LO6. Apply GIS technologies and environmental expertise in the analysis, geographical research and expertise of natural, natural-anthropogenic, socio-economic and territorial production systems at the regional and global levels.</p> <p>LO7. To substantiate and solve modern problems of geographical research that form a variety of natural and man-made processes in a reasoned manner.</p> <p>LO8. Possess and apply methods of geographical cognition and planning technologies for solving fundamental professional tasks in the field of scientific geographical research, substantiate research results.</p>

3. GRADUATE COMPETENCES OF THE EP

SOFTSKILLS - Behavioural and personal skills	
SS 1. Competence in managing one's own literacy	SS1.1.Ability to self-learn, self-develop and constantly update their knowledge within the framework of a chosen trajectory and in an interdisciplinary environment. SS1.2 The ability to express thoughts, feelings, facts and opinions in a professional sphere. SS1.3. Ability to be mobile in today's world and to think critically.
SS 2. Language competence	SS2.1. The ability to build communication programmes in the state language, in Russian and in a foreign language. SS2.2. Ability for interpersonal social and professional communication in an intercultural environment.
SS 3. Mathematical competence and competence in the field of science	SS3.1: Ability and readiness to apply the educational potential, experience and personal qualities acquired during the study of mathematics, natural science and technical disciplines in higher education to solve professional problems.
SS 4. Digital competence, technological literacy	SS4.1 The ability to demonstrate and develop information literacy through mastering and using modern information and communication technologies in all spheres of one's life and professional activities. SS4.2.Ability to use different types of information and communication technology: Internet resources, cloud and mobile services for searching, storing, protecting and disseminating information.
SS 5. Personal, social and learning competences	SS5.1.1.Ability to develop physical self-improvement and a healthy lifestyle orientation to ensure full social and professional activity through the methods and means of physical education. SS5.2. The ability to develop social and cultural skills on the basis of civic and moral awareness. SS5.3 The ability to build a personal lifelong learning trajectory for self-development, career development and professional success. SS5.4 The ability to interact successfully in a variety of socio-cultural contexts during study, work, home and leisure activities.
SS 6. Entrepreneurial competence	SS6.1 The ability to be creative and entrepreneurial in a variety of environments. SS6.2 The ability to work under uncertainty and rapidly changing conditions, to make decisions, to allocate resources and to manage one's time. SS6.3. Ability to work with consumer requests.
SS 7. Cultural awareness and ability to express oneself	SS7.1. The ability to demonstrate a world outlook, civic and moral attitude. SS7.2 The ability to be tolerant of the traditions and cultures of other peoples of the world, with high spiritual qualities.

Professional Competencies (HARDSKILLS).

PC1 Research and development	Summarise findings in the context of prior scientific knowledge and formulate conclusions and practical recommendations based on representative and original research findings; .
PC 2. Organisational and managerial;	To be prepared to use modern knowledge in the organisational and managerial work of education and science;
PC 3. Project and production	Be able to use modern methods of processing and interpreting geographical information in applied research;
PC4 Administrative and pedagogical	Be able to compile summaries of the results of an industrial or scientific assignment; Ability to teach geographical subjects in higher education institutions.
PC5 Innovative	Ability to use innovative solutions in the development of new technologies, ability to perform an assessment of innovative commercial risks in the implementation of new solutions in the development of technologies for various fields of activity; ability to develop plans and programmes for the organisation of innovation activities of scientific teams. Be able to use modern methods for processing and interpreting geographical information in applied research;

3.1 Matrix for relating the learning outcomes of the whole EP to the competences of the modules

	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8
SS 1	+	+				+	+	
SS 2	+		+		+			+
SS				+	+	+	+	
SS 4				+				+
SS 5		+	+					
SS 6			+	+	+			
SS 7		+	+					
PC1	+					+	+	
PC2				+				+
PC3			+			+	+	
PC4				+	+		+	+
PC5	+		+		+			+

				society. Techniques for developing critical thinking: consideration and study of the logic of arguments. Formation of critical reflective thinking and metacognitive abilities.									
BD	HsC	Foreign Language (Professional)	<p>The aim of the discipline: Systematic deepening of communicative competence within the framework of international standards of foreign language education on the basis of further development of skills and abilities of active language use in professional activities.</p> <p>Content: B2, C1 levels are presented as pragma-professional orientation for professional and academic purposes at advanced level: scientific information base, interpretation of scientific information, argumentation, persuasion, scientific controversy, academic writing. Use of innovative methods and technologies, involvement of modern means, Internet resources.</p>	4		✓							
BD	HsC	Psychology of Management	<p>The aim of the discipline: To acquire knowledge of psychological management and to develop skills in the management of human resources of the organisation.</p> <p>Content: The development of psychological theories of management. Psychological characterisation of personnel. Psychology of employee motivation. Technologies of management of human resources of an organization. Psychological support of human resources policy of an organization. Psychology of conflict in</p>	4		✓							

			the organization. Technologies of prevention of professional deformation of personality. Practical implementation in the form of creating diagnostic tools, development of digital methods of management training, management consulting.									
BD	HsC	Higher School Pedagogy/	<p>The aim of the discipline: Formation of professional and pedagogical culture of a university teacher, general pedagogical competences, familiarization of undergraduates with theoretical and methodological bases of pedagogy of higher school, technologies of planning, organization and management of educational process in higher education institution.</p> <p>Contents: Modern paradigms of education, history and recent trends in the development of higher professional education in the world and in Kazakhstan. Genesis and methodology of pedagogy of higher education, competences of higher education teacher. Problems of university didactics, problems of organizing educational work with students, managing a modern university. Modern approaches and methods of teaching and organization of students' learning activities, assessment of learning achievements.</p>	4				✓				
PD	HsC	Teaching Methods of Special Disciplines	<p>The aim of the discipline: Formation of professional-pedagogical competence and methodological preparation of Master students for future pedagogical activity in the new socio-economic conditions.</p>	5				✓				✓

Module Scientific and Natural	BD	EC	Geodynamic Processes and Natural Disasters	<p>The aim of the discipline: The purpose of the discipline: the formation of undergraduates' knowledge about geodynamic processes, methods of forecasting, modeling their consequences and the definition of protective measures.</p> <p>Content: Geodynamic processes and their consequences. Methods of forecasting and modeling geodynamic processes. Preventive protective measures and methods of protection. Natural disasters. Prevention and elimination of consequences of emergency situations. Global threats and emergencies on Earth. Agro-climatic hazards and risks. Methods for determining the intensity of various hazardous processes.</p>	4					✓		✓	
	BD	EC	Political Geography and Globalization of Modern World	<p>The aim of the discipline: formation of knowledge of political geography and the main problems of the development of geopolitical processes in the modern world.</p> <p>Content: problems of globalization of the modern world and forms of the structure of political geography. Political geography and the main problems of the development of geopolitical processes. Geopolitical and geographical aspects of economic integration. International and foreign economic relations in modern politics. The driving forces of globalization, the political and geographical "dimension" of global problems.</p>	4						✓		✓
	BD	EC	Scientific and	<p>The aim of the discipline: formation of knowledge of research methods,</p>	6						✓		✓

			<p>theoretical basics of Study of the Sacred geography of the Turkestan region</p>	<p>analysis of history and expertise of sacred places of Turkestan region. Contents: Scientific and theoretical foundations of the study of sacred places. Research methods: field, historical, statistical, economic and mathematical. The method of geographical zoning, comparative geographical. Remote monitoring. Geographical modeling. Geographical forecast. Sacred places as a tool for the formation of the national identity of the state. Scientific determination of the status of sacred sites of the Turkestan region at the international, national and local levels.</p>									
	BD	EC	<p>Recreational resources and geography of tourism of the Republic of Kazakhstan</p>	<p>The aim of the discipline: formation of knowledge about the development and rational use of recreational resources and prospects for the development of tourism in the Republic of Kazakhstan. Content: Recreational resources of the Republic of Kazakhstan and potential. The level of development of recreational resources and methods of rational use. The economic importance of aspects of tourism development. Opportunities and prospects for tourism development, attracting investment.</p>	6					✓	✓		
Module Geographic Patterps	BD	EC	<p>Climate Change and Modern Problems of Desertification</p>	<p>The aim of the discipline: mastering theoretical knowledge about modern problems of desertification in connection with climate change. Content: Problems of global warming and climate change. Environmental pollution. Degradation of landscapes in different</p>	5						✓	✓	

				ecological zones. Analysis of the problem of desertification, the rate of desertification under the influence of natural and anthropogenic factors.									
	BD	EC	Soil Erosion and Land Degradation	<p>The aim of the discipline: formation of knowledge about the occurrence of erosion and degradation processes and ways to restore them.</p> <p>Contents: Characteristic features of erosion and degradation. The processes of erosion degradation of soils, the cause of their occurrence and development. Soil protection measures, basic research methods. Theoretical foundations of erosion-accumulative processes. Ecological and economic aspects of soil protection from erosion and deflation. Solving practical tasks for the ecologically balanced use of eroded and erosive lands.</p>	5						✓	✓	
Cycle of basic disciplines/ Optional component													
Module Geographic Patterns	PD	EC	Structure and Development Patterns Geographic Environment	<p>The aim of the discipline: Formation of knowledge about the geographical patterns of the Earth and the influence of nature-transforming human activity on the geographical envelope.</p> <p>Content: Formation and structure of the geographical environment. The integrity of the geographical environment The discreteness of the geographical environment. Zoning of the geographical environment. Azonality and polar asymmetry. The rhythm of natural processes Pollution and change of the Earth's geospheres. Depletion of natural resources (including soil and vegetation</p>	4						✓		✓

			cover). Reduction of biodiversity. The energy crisis in biogeosystems. The threat of a large-scale war. Demographic explosion and growing demands on the quality of life. The threat of new technologies (including nanotechnology).										
PD	EC	Earth Development and Geographic Patterns	<p>The aim of the discipline: formation of knowledge of the historical and modern development of the main components of the Earth</p> <p>Content: The essence and significance of general geographical patterns in the formation of the Earth. The development of the geographical envelope and its classification. The circulation of matter and energy. Landscape-forming processes. Cosmic predictions: the theory of the global evolution of the Earth. Mobilizm; zonal, azonal and intrazonal laws and their manifestations. Development of scientific research skills.</p>	5							✓		✓
		Research practice	<p>Objective: To consolidate the theoretical knowledge gained and to acquire practical skills and experience to identify and formulate a scientific problem, research it and justify solutions.</p> <p>Content: Organisation of scientific research in accordance with the modern methodology of science, observance of the stage and logic of scientific research in accordance with the applied objectives of the Master's project. Develops the ability to experiment and summarise the results of research</p>	6				✓	✓				

				work in the form of scientific publications, to defend his/her position in discussions and to make decisions of professional nature. Develops creativity, creativity and initiative.									
Module Research Methodology	PD	EC	The use of GIS in geographic researches	The aim of the discipline; providing knowledge about the methods and methodology of using GIS in geographical research. Contents: Theoretical foundations of GIS. The importance of using GIS in geographical research. Methods of geographical research of natural and natural-anthropogenic systems. GIS Programs: MosMap-GIS line, Spatial Manager, ActiveMap GS, GIS 6 Web Edition, GisMapServer, GM Tool Kit, IndorCAD/River, MapInfo MapX.	5					✓	✓		
	PD	EC	Theory and Practice of Geographical Research	The aim of the discipline: formation of theoretical foundations and practical skills in conducting and organizing geographical research. Content. Theory and practice of scientific research. Methods of geographical research of natural and natural-anthropogenic systems. General concepts of methods of studying the natural environment and society. Types of research: applied, fundamental, innovative.	5				✓	✓			
	PD	EC	Planning and Organization of Scientific-Researches	The aim of the discipline: development of skills in the development, implementation and provision of research results. Content: Classification of scientific research: fundamental and applied, the essence of scientific research. Forms	6	✓	✓			✓			

			and methods of research: experimental, methodological, descriptive, experimental-analytical, theoretical and empirical levels of research. Planning, organisation and implementation of research work, stages of scientific research and its processing. Methodological and procedural sections of research.										
PD	EC	Scientific Project Management	<p>The aim of the discipline: development of organizational planning skills and implementation of research projects.</p> <p>Content: Basic concepts of project management: project management, project success. Project management standards: national and international. Organisational structures of project management. Functional, project-oriented and mixed structures. Assessing project effectiveness. Project planning. Project cost management. Project control and management. project closure.</p>	6	✓	✓							✓
PD	EC	Theoretical and Methodological Problems of Geography	<p>The aim of the discipline: consideration of current problems of modern geography and promising areas of development.</p> <p>Contents: Philosophical and methodological problems of geographical sciences. Theoretical understanding of geography as an integral system of interrelated natural and social disciplines. Modern methodological foundations and problems of geographical science. Approaches to solving the problem of geography theorization: activity, model, cybernetic, system, geospatial</p>	6				✓		✓			

				approaches, the concept of theoretical geography.									
	PD	EC	Geographical Science in Context of Sustainable	<p>The aim of the discipline: formation of modern geographical representations in the context of sustainable development.</p> <p>Content: Natural and cultural heritage as a fundamental geographical category. Modern geography and the context of sustainable development. A condition for sustainable, ecologically balanced development. Global problems within the framework of the concept of sustainable development of geographical science. The concept of sustainable development and the connection of geographical science.</p>	6				✓		✓		
	PD	EC	History and Methods of Modern Geomorphology	<p>The aim of the discipline: presentation of objective knowledge about geomorphology and modern directions of its development.</p> <p>Contents: Methodological principles of the study and classification of relief. The founders of geomorphological research. Features of the history of the formation of modern relief. Features of the relief of the rank of morphosculpture. Spatial-temporal analysis in geomorphology. Current trends, system analysis, forecast.</p>	5						✓		✓
Module Concept of Sustainable development	PD	EC	New Concepts for Geomorphical Education Development	<p>The aim of the discipline: providing knowledge about new education reforms and comparing advanced educational reforms.</p> <p>Content: modern reforms and concepts of education. Research of advanced reforms of foreign countries in improving education (Singapore,</p>	5				✓	✓			

and modern problems of geographical science				Sweden, Great Britain, etc.). Methods of analysis, comparison and implementation of best practices in research work.									
	PD	EC	Fundamentals of ecology and nature protection	<p>The aim of the discipline: formation of knowledge about environmental problems, nature protection and effective ways to solve them. and providing students with scientific knowledge about the environmental consequences of the anthropogenic process.</p> <p>Contents: Global problems of environmental protection (conservation of biodiversity, changes in natural landscapes, urban-demographic problems, anthropogenic climate change, pollution problems). Scientific theories, geographical and social concepts. Innovative technologies, problems of nature protection. Combining theory and practice in the field of environmental protection. Fundamental environmental problems of nature conservation. Regulatory documents of environmental and environmental issues.</p>	6					✓	✓		
	PD	EC	Modern geo-economic and geopolitical processes	<p>The aim of the discipline: Formation of knowledge about modern geopolitical and geo-economic processes.</p> <p>Contents: Geo-economic resources and their main components. Theoretical foundations of geo-economics. Geo-economic framework of the world economy. The world monetary system. International relations and organizations. Geopolitical processes in the modern world. The interrelation of</p>	5						✓		✓

			geopolitical and geo-economic processes in the transition to a multipolar world structure.										
PD	EC	Actual Problems of Economic, Social and Political Geography	<p>The aim of the discipline: providing knowledge about current and current problems of economic, social and political geography.</p> <p>Content: Socio-economic and political problems of the development of macro-regions and individual countries. Current global problems of socio-economic and political development. Analysis of the general geographical picture of the world, the main problems of global and regional development.</p>	5						✓		✓	
PD	EC	Geocological monitoring of the environment	<p>The aim of the discipline: consideration of the main trends in the development of modern geocological monitoring, in solving the environmental problem.</p> <p>Contents: Geographical problems of environmental management and forecasting. Territorial problems of resource management and regions. Environmental problems of the post-industrial world. Global problems of the modern stage of the development of world civilization. The concept of sustainable development of the modern world. Features and sustainable regional development of regional governance.</p>	5					✓		✓		
PD	EC	Modern problems of glaciology	<p>The aim of the discipline: formation of knowledge about the main processes of glaciology and spatio-temporal changes of glaciers in the modern period.</p> <p>Contents: Regularities of ice formation and properties. Classification of natural</p>	5						✓	✓		

				ice. Types of ice formation. Cryogenic structure of seasonal and permafrost soils. Cryogenic relief. Spatial patterns of the cryolithozone. Fluctuations of glaciers. Modern problems of global and regional glaciology. Glaciological zoning.									
	PD	EC	Information and cartographic modeling	<p>The aim of the discipline: formation of knowledge about the main processes of glaciology and spatio-temporal changes of glaciers in the modern period.</p> <p>Contents: Regularities of ice formation and properties. Classification of natural ice. Types of ice formation. Cryogenic structure of seasonal and permafrost soils. Cryogenic relief. Spatial patterns of the cryolithozone. Fluctuations of glaciers. Modern problems of global and regional glaciology. Glaciological zoning.</p>	5						✓	✓	
Module of scientific-research work and Final Certification			Research work of a master student, including passing an internship and completing a master's thesis	To independently research and solve specific scientific problems on the topic of the chosen study. Analysis and use of modern theoretical, methodological and technological achievements of geographical science. To get acquainted with the innovative technologies within the framework of the internship. The use of modern research methods. Conducting an assessment of the reliability of the obtained results and their critical comparison with similar results of domestic and foreign works. Analysis of the obtained results, conclusions and proposals.	24					✓	✓	✓	✓
			Execution	Examines the basic requirements for	8	✓	✓			✓	✓	✓	✓

5. SUMMARY TABLE SHOWING THE VOLUME OF CREDITS TAKEN UP BY MODULE EP

Educational course	Semester	Number of modules mastered	Number of disciplines studied		Number of credits KZ					Total in hours	Total credits KZ	Quantity	
			V K	E F	Theoretical education	Pedagogical practice	Research practice	NIR M	Final examination			copy	diff. score
1	1	4	5	2	29			1		900	30	6	2
	2	4		4	22	4		4		900	30	4	2
2	3	3		2	11		6	3		600	20	2	2
	4	1		3	16			4		600	20	3	1
	5	1						12	8	600	20		1
Total			5	11	78	4	6	24	8	3600	120	15	8

6. LEARNING STRATEGIES AND METHODS, MONITORING AND EVALUATION

Learning strategies	<p>Master-centred learning: the learner is the centre of teaching/learning and an active participant in the learning and decision-making process.</p> <p>Practice-oriented learning: A focus on the development of practical skills.</p>
Teaching methods	<p>Conducting lectures, seminars and various types of workshops:</p> <ul style="list-style-type: none"> • The use of innovative technology: <ul style="list-style-type: none"> problem-based learning; case study; group work and creative groups; Discussions and dialogues, intellectual games, Olympiads and quizzes; Reflection, project and benchmarking techniques; Bloom's taxonomy; presentations; • The use of information sources in a rational and creative way: <ul style="list-style-type: none"> multimedia training programmes; electronic textbooks; digital resources. <p>Organisation of independent work of master students, individual consultations.</p>
Monitoring and evaluating the attainability of learning outcomes	<p>Current control on each topic of the discipline, knowledge control in the classroom and out-of-class activities (<i>according to the syllabus</i>). Forms of assessment:</p> <ul style="list-style-type: none"> questioning in the classroom; testing on the topics of the training course; control works; protection of independent work; discussions; trainings; colloquiums; abstract, etc. <p>A rubric test shall be carried out at least twice during one academic period in the same discipline.</p> <p>Intermediate attestations are carried out in accordance with the working curriculum and academic calendar.</p> <p>Forms of conduct:</p> <ul style="list-style-type: none"> an examination in the form of a test; an oral examination; a written examination; a combined examination; project defence; protection of internship reports. <p>Final State Attestation.</p>

TRAINING AND RESOURCE SUPPORT FOR EP

<p>Information and Resource Centre</p>	<p>The structure of the JRC includes 6 subscriptions, 16 reading rooms, 2 electronic resource centres (ERC). The basis of the network infrastructure of the JRC consists of 180 computers with Internet access, 110 automated workstations, 6 interactive whiteboards, 2 video decks, 1 video conferencing system, 3 A-4 scanners, 3. The JRC software is IRBIS-64 under MSWindows (basic set of 6 modules), a standalone server for uninterrupted work in the IRBIS system.</p> <p>The library collection is reflected in the electronic catalogue, which can be accessed online 24/7 at http://lib.ukgu.kz.</p> <p>Thematic databases of own generation were created: "Almamater", "Proceedings of SKSU scientists", "Electronic Archive". Online access from any device in 24/7 mode via external link http://articles.ukgu.kz/ru/ppp.</p> <p>Work with catalogues in electronic form. The EC consists of 9 databases: "Books", "Articles", "Periodicals", "Proceedings of SKSU Faculty", "Rare Books", "Electronic Fund", "SKSU in Print", "Readers" "SKR".</p> <p>The JRC provides its users with three options for accessing its own electronic information resources: from the "Electronic Catalogue" terminals in the catalogue hall and departments of the JRC; via the university information network for faculties and departments; and remotely on the library's website http://lib.ukgu.kz/.</p> <p>Access to international and national resources is open: "SpringerLink", "Polpred", "Web of Science", "EBSCO", "Epigraph", to electronic versions of scientific journals in open access, "Zan", "RMEB", "Adebiet", Digital Library "Aknurpress", "Smart-Kitar", "Kitar.kz", etc.</p> <p>For people with <i>special needs</i> and disabilities, the JRC adapts the library website for visually impaired users</p>
<p>Facilities and equipment</p>	<p>Specialised classrooms with an interactive whiteboard - 204, 205. Classrooms - 201,203, 301, 303 (building No.7, Baitursynov Street).</p> <p>The Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan for the Turkestan region.</p> <p>The Centre for Children's and Youth Tourism, Local History and Ecology, a state unit of the Turkestan City Human Development Department of the Turkestan Region Human Development Department.</p>

APPROVAL SHEET

in education programme 7M05220 - Geography

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