

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



Educational program

7M01560 - Geography

Registration number	7M01500009
Code and Classification of Education	7M01 – Pedagogical Science
Code and Classification of Areas of Training	7M015 - ScienceTeacherTraining
Group of educational programs (EP)	M015 - Training Teacher of Geography
Type of EP	-
ISCE level	7
NQF level	7
IQF level	7
Language learning	Kazakh, Russian
The complexity of the EP	120 credits
Distinctive features of EP	-
Partner University (JEP) -	-
University partner (DDEP) -	-

Shymkent, 2025.

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The EP was considered at a meeting of the Academic Quality Committee «Natural sciences, mathematics and statistics» or the Higher School «Natural sciences and pedagogy», Minutes № 6 «14» 03 2025 y.

Chairman of the Committee Tursynbayev A.Z.

The EP was considered and recommended for approval at Educational-methodical meeting of M.Auezov SKU
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Chairman of the EMM E. Imangaliyev

The EP was approved by the decision of the Academic Council of the University
Minutes # 10 «27» 03 2025 y.

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1 Concept of the Educational program

Mission of the University	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"> – Deep subject knowledge, their application and continuous expansion in professional activity – Information and digital literacy and mobility – Research skills, creativity and emotional intelligence – Entrepreneurship, independence and responsibility for their activities and well-being – Global and national citizenship, tolerance to cultures and languages
Uniqueness of the EP	It consist of a combination os scientific and pedagogical education and innovative teaching methods in geography that provide a high competitive advantage in the future profession
Academic Integrity and Ethics Policy	<p>The university has taken measures to maintain academic integrity and academic freedom, protection from any type of intolerance and discrimination:</p> <ul style="list-style-type: none"> • Rules of academic integrity (order No. 212 of October 10, 2022); • Anti-corruption standard (order No. 8 n/a dated 08/01/2025). October 10, 2022)
Regulatory and legal framework for the development of EP	<ol style="list-style-type: none"> 1. Law of the Republic of Kazakhstan “On Education”; 2. «Model Rules for the Activities of Organisations of Higher and Postgraduate Education», approved by order of the Ministry of Education and Science of the Republic of Kazakhstan dated October 30, 2018 No. 595 as reworded by order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated June 24, 2024. No. 307; 3. Standard rules for admission to training in educational organizations implementing educational programs of higher and postgraduate education, approved by order of the Ministry of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600 as reworded by order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 26, 2024. No. 372; 4. State mandatory standards for higher and postgraduate education, approved by order of the Ministry of Education and Science of July 20, 2022 No. 2 as reworded by order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated March 04, 2025. No. 90; 5. Rules for organizing the educational process in credit technology

	<p>of education, approved by order of the Ministry of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152 as reworded by order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated April 29, 2024. No. 203;</p> <p>6. Qualification reference book for positions of managers, specialists and other employees, approved by order of the Minister of Labor and Social Protection of the Population of the Republic of Kazakhstan dated December 30, 2020 No. 553 as reworded by order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated June 20, 2024. No. 207;</p> <p>7. Methodological recommendations for introducing ECTS principles into the educational process and expanding academic freedom. Appendix to the order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated February 12, 2024 No. 57</p> <p>8. Guidelines for the development of educational programs for higher and postgraduate education, Appendix 1 to the order of the Director of the National Center for the Development of Higher Education of the Ministry of Education and Science of the Republic of Kazakhstan dated May 4, 2023 No. 601 Н/К</p> <p>9. "Goso Vipvo" the tale of Mnivo RK from 20 July 2022 Apostille 2, edited by Mnivo RK from 04.03.2025 apostille 90</p> <p>10. PS for teachers of educational organization. Order of the Minister of Education of the Republic of Kazakhstan, dated 02/24/2025, No. 31</p>
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	<p>They are established in accordance with the Standard Rules for admission to training in educational organizations implementing educational programs of higher and postgraduate education by order of the Ministry of Education and Science of the Republic of Kazakhstan No. 600 as reworded by order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 26, 2024. № 372</p>
Conditions for the implementation of educational programs (EP) for persons with disabilities and special educational needs (SEN)	<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</p>

	<p>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>
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An individual differentiated approach is provided for all types of classes and in the organization of the educational process.

2. Passport of the Educational program

Purpose of the EP	Training of highly qualified Masters who are capable of applying innovative technologies in the study of general geographical patterns, inclined to self-development in research and pedagogical activities, and capable of implementing theoretical knowledge.
Objectives of the EP	<p>-Individual training of masters with advanced professional qualifications, theoretical and practical knowledge, who receive a full-fledged and high-quality scientific and pedagogical education in the field of geography;</p> <p>- Meeting the intellectual, cultural and moral development needs of the individual through postgraduate education;</p> <p>- to meet the needs of society for qualified professionals in the education and teaching of geography in higher education institutions, capable of combining academic values with entrepreneurial ideas;</p> <p>- developing a favourable educational environment for the professional, cultural and linguistic needs of the students;</p> <p>- To develop a thorough professional understanding of the fundamental disciplines and practical methods for dealing with geography and geography teaching methods and their applications in science teaching;</p> <p>- Increased knowledge of applied and theoretical geographical science.</p> <p>- To develop fundamental knowledge, skills and abilities in geographical studies and teaching methods in the relevant disciplines, which are necessary for professional activities;</p> <p>-preparation for professional activity at a higher education institution, research institute, workplace or for doctoral studies.</p> <p>- Establishing conditions for the development of in-demand knowledge and skills, as well as a conscious attitude towards enhancing the welfare of society and conserving the planet within the framework of the SDGs</p> <p>Creating conditions for the formation of in-demand knowledge and skills, a conscious attitude towards improving the well-being of the population and protecting the planet in the context of the SDGs</p>
Harmonisation of EP	<ul style="list-style-type: none"> • 7 level of the National Qualifications Framework of the Republic of Kazakhstan; • Dublin descriptors of the 6th level of qualification; • 2 cycle of a Framework for Qualification of the European Higher Education Area); • 7th Level of European Qualification Framework for Life long Learning).

Connection of EP with the professional sphere	<p>Sectoral Qualifications Framework Education, approved by Minutes №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.</p> <p>Professional standard «Teacher» (order of the acting Ministry of Education of the Republic of Kazakhstan dated February 24, 2025 №31)</p> <p>- professional standard for teachers (teaching staff) of higher and (or) postgraduate education organizations (Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated November 20, 2023 №591).</p>
Name of the degree awarded	After successful completion of this educational program, the graduate is awarded the degree: Master of Education «7M01560-Geography» of the educational program.
List of qualifications and positions	<ul style="list-style-type: none"> - Lecturer (assistant); - researcher - educational moderator - expert teacher - educational researcher
Field of professional activity	<ul style="list-style-type: none"> - education - science director
Objects of professional activity	<ul style="list-style-type: none"> - Secondary education organisations of all types and types, irrespective of ownership and departmental subordination; - Technical and vocational education organisations; - Higher education institutions; - Research institutes; - Institutes of further education and retraining of educational personnel; - Authorised and local executive authorities in the field of education.
Subjects of professional activity	<ul style="list-style-type: none"> - the organisation of training and education - geographical research and monitoring; - Activities to support innovative processes in education management.
Types of professional activity	<ul style="list-style-type: none"> - Educational (pedagogical); - Educational; - Educational and technology; - Social pedagogical; - Research; - organisational and managerial.

<p>Learning outcomes</p>	<p>LO1. Analyse the main philosophical and methodological problems, including those of an interdisciplinary nature, arising in science at the present stage of its development, evaluate various facts and phenomena on the basis of the provisions and categories of philosophy of science;</p> <p>LO2. Use a foreign language in interpersonal communication, communicate information, ideas, conclusions, problems and solutions to professionals and non-specialists alike;</p> <p>LO3. Use staff effectively in the organisation, master the social-psychological techniques of mass behaviour management;</p> <p>LO4. Apply research methodologies, effective teaching methods and artificial intelligence in the field of geographical disciplines, and critically evaluate the scientific organization of the work of a higher school teacher;</p> <p>LO5. Use modern geographical science in the context of sustainable development when describing physical and socio-economic processes observed in nature and society;</p> <p>LO6. Carry out assessments of natural, natural-anthropogenic, economic and territorial-production systems at regional and local levels on the basis of statistical, economic and social data monitoring and geographical research methods;</p> <p>LO7. To design and implement forms and methods of quality control of education, various types of control and measuring tools based on advanced learning technologies and artificial intelligence;</p> <p>LO 8: Solve research and teaching problems by demonstrating a mastery of the methodological foundations of geography.</p>
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3. Competencies of a graduate of the EP

GENERAL COMPETENCIES (SOFTSKILLS). Behavioral skills and personal qualities	
GC 1. Competence in managing one's literacy	GC1.1.Ability to self-learn, self-develop and constantly update their knowledge within the framework of a chosen trajectory and in an interdisciplinary environment. GC1.2 The ability to express thoughts, feelings, facts and opinions in a professional sphere. GC1.3. Ability to be mobile in today's world and to think critically.
GC 2. Language competence	GC2.1. The ability to build communication programmes in the state language, in Russian and in a foreign language. GC2.2. Ability for interpersonal social and professional communication in an intercultural environment.
GC 3. Mathematical competence and competence in the field of science	GC3.1: 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.
GC 4. Digital competence, technological literacy	GC4.1 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. GC4.2.Ability to use different types of information and communication technology: Internet resources, cloud and mobile services for searching, storing, protecting and disseminating information.
GC 5. Personal, social and educational competencies	GC5.1.1.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. GC5.2. The ability to develop social and cultural skills on the basis of civic and moral awareness. GC5.3 The ability to build a personal lifelong learning trajectory for self-development, career development and professional success. GC5.4 The ability to interact successfully in a variety of socio-cultural contexts during study, work, home and leisure activities.
GC 6. Entrepreneurial competence	GC6.1 The ability to be creative and entrepreneurial in a variety of environments. GC6.2 The ability to work under uncertainty and rapidly changing conditions, to make decisions, to allocate resources and to manage one's time. GC6.3. Ability to work with consumer requests.
GC 7. Cultural awareness and self-expression	GC7.1. The ability to demonstrate a world outlook, civic and moral attitude. GC7.2 The ability to be tolerant of the traditions and cultures of other peoples of the world, with high spiritual qualities.

PROFESSIONAL COMPETENCIES (HARDSKILLS). Theoretical knowledge and practical skills specific to this field

PC1 Research and development	<p>The ability to appreciate the role of science in the development of civilisation, to identify the relationship between science and technology and related social problems in terms of scientific rationality and its historical principles;</p> <p>The ability to use digital tools to organize and conduct research activities.</p>
PC 2. Organisational and managerial;	<p>The ability to apply modern knowledge and artificial intelligence in organizational and managerial work in the field of education and science;</p> <p>To prepare, conduct and participate in scientific and methodological activities in educational institutions and beyond.</p>
PC 3. Project and production	<p>Ability to apply modern methods of processing and interpreting geographical information in applied research;</p>
PC4 Administrative and pedagogical	<p>Be able to select the content of geographical education depending on the learning profile, to design and organise the educational process;</p> <p>Be competent in selecting, adapting and modifying innovative methods and technologies for teaching geography in higher education institutions, colleges and other educational institutions;</p> <p>The ability to competently compile and execute scientific and pedagogical documentation, reports, analytical reviews, reports and scientific articles using artificial intelligence and modern digital tools.</p>
PC5 Innovative	<p>Ability to assess innovative commercial risks when implementing new solutions in the field of technology development for various fields of activity;</p> <p>Ability to develop plans and programs based on artificial intelligence in the organization of innovative activities of research teams.</p> <p>The ability to use innovative technologies and solutions based on artificial intelligence in the development of new educational and research approaches in geography.</p>

3.1 Matrix of correlation of the learning outcomes of the educational program as a whole with the competences formed

	LO 1	LO 2	LO3	LO 4	LO 5	LO 6	LO 7	LO 8
GC 1	+	+	+				+	+
GC 2	+	+	+				+	+
GC 3				+	+	+		
GC 4				+	+	+		+
GC 5		+	+	+				
GC 6		+	+	+				
GC 7	+				+	+	+	
PC1	+					+	+	
PC2				+				
PC 3						+	+	
PC4					+			+
PC5	+		+					+

4. Matrix of the influence of modules and disciplines on the formation of learning outcomes and information on labor intensity

Module	Cye le	Com pone nt	Name of the discipline	Brief description of the discipline	Quan-ty loans	Formative learning outcomes (codes)								
						LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	
Cycle of basic disciplines The university component														
Scientific and Pedagogical Training	BD	HsC	History and Philosophy of Science/	<p>The aim of the discipline: The study of the phenomenon of science as a subject of special philosophical analysis, the regularities and trends of the special activity of producing scientific knowledge, taken in a socio-cultural context.</p> <p>Content: Identification of the specificity and interrelation of the main problems of the history and philosophy of science. Studying the regularities of the development of science and the structure of scientific knowledge, methods of scientific research. Knowledge of the main concepts and trends of the non-classical and post-non-classical stage of science development. Analysis of realities of modern theory and practice on the basis of comprehension of methodology of natural-science, socio-humanitarian and technical knowledge. Critical thinking as a prerequisite for development and functioning of modern society. Techniques for developing critical thinking: consideration and study of the logic of arguments. Formation of critical reflective thinking and metacognitive abilities.</p>	4	✓								
	BD	HsC	Foreign	The aim of the discipline:	4		✓							

		Language (Professional)	<p>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>									
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 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.</p>	3			✓					
BD	HsC	Higher School Pedagogy	<p>The purpose of the course is to develop undergraduates' skills and abilities to effectively organize professional and</p>	5				✓			✓	

			and Psychology	<p>pedagogical activities at a university based on modern psychological and pedagogical knowledge.</p> <p>Content: Modern paradigms of higher education. History, trends and strategies of higher education development in Kazakhstan. The subject, tasks, and categories of higher school pedagogy and psychology. Methodological foundations of higher school pedagogy and psychology. Professional competence of a university teacher. The communicative competencies of a university teacher. Higher school didactics. Psychological features of student age. The university learning process and its patterns. The content of education at the university. Forms of organization of the educational process at the university. Technologies of organization and implementation of the educational process at the university. Features of the credit training system. Methods and methods of teaching.</p>									
Module Methodical Basics of Teaching	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> <p>Content: Peculiarities of the construction of objectives, content, application of modern methods, methodologies and organisational forms of teaching core disciplines. Methods of organizing and conducting classes based on artificial intelligence. Development of course programs and methodological support for specialized disciplines. The methodology of using artificial intelligence in the organization and conduct of control and quality of education in special disciplines conducted at the University. The</p>	5				✓			✓	

				introduction of new methods in the field of forecasting natural phenomena and patterns, data analysis and cartography based on artificial intelligence in the teaching of professional disciplines.										
			Pedagogical Practice	<p>The aim of the discipline: To master the pedagogical skills, to develop the skills of independent teaching and educational activities in higher education.</p> <p>Content: Study of the teaching experience of the leading teachers of the university. Independent teaching sessions, supervision of students' research work. To apply the skills of collecting and accumulating empirical material, structuring, systematising knowledge and presenting it in different ways. To improve the skills of public speaking and presentation of reporting documentation.</p>	4								✓	✓
Cycle of basic disciplines/ Optional component														
	BD	EC	Geographical Science in the Context of Sustainable Development	<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>	4					✓	✓			

Module New Innovative Technologies in Teaching Geography	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	New educational technologies in process of Teaching Geography	<p>Purpose of the discipline: To explore new educational and assessment technologies in the geography teaching process.</p> <p>Content: Modern learning technologies and artificial intelligence and their distinctive characteristics and features. Formation of cognitive activity and competence using new technologies and artificial intelligence in the educational process.</p> <p>The use of innovative teaching and upbringing technologies in the classroom and in extracurricular activities. Methods for evaluating the educational process and educational outcomes based on artificial intelligence..</p>	6				✓	✓			
	BD	EC	Theoretical foundations of geographic education	<p>The aim of the discipline: To form knowledge of the theoretical foundations of geographical education, the problems of globalisation and its reflection in modern geography. development of scientific thinking.</p> <p>Content: The evolution of geographical thought. The direction of scientific inquiry. The role of theoretical research in</p>	6				✓	✓			

				geographical science. Spatial trend of thinking in geography. Main models of university geography in countries of the world. The concept of development of general geographical education in RK										
Module Geographic Patterns	BD	EC	Territorial Planning and Environmental Management	<p>The aim of the discipline: To develop the skills to draw up a territorial environmental management plan and management model in geographical science.</p> <p>Content: Concept and essence of spatial planning. Integrated assessment of the territory as a basis for spatial planning. The main aspects of territorial planning of nature use. The main components of the mechanism of nature management. The natural resource potential of the territory. Water, soil and land resources, opportunities for their allocation and use. Subsoil resources, plant and animal resources, opportunities for their allocation and use.</p>	5					✓	✓			
	BD	EC	Soil Erosion and 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>Content: 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														
	PD	EC	Forecasting and	The aim of the discipline: to develop skills in geographical forecasting within the	4					✓				

Module Geographic Patteps			modelling in geography	framework of deepening knowledge of modern methods of geographical research. Content: Fundamentals of modelling in geography. Geographical patterns and the modelling process. Classification of patterns. Features of mathematical and cartographic modeling. Application of geographic information systems in modeling. Model of industry allocation. Models of urban geography. Structural analysis of natural systems. Risk assessment in geographic forecasting. Experimental model building and analysis									
	PD	EC	Earth Development and Geographic Patteps	The aim of the discipline: To develop the ability to apply scientific approaches to the study of the geographical patterns the Earth's development; to develop scientific research skills. Content: forming one's own conclusions and attitudes in the development of the Earth. The role of endogenous and exogenous processes in the formation of the shape of the planet Earth The essence and significance of general geographical regularities in the formation of the Earth. The Earth in the Solar System. Development of geographical envelope and its classification. Circulation of matter and energy Landscape-forming processes. Cosmic predictions: theory of global evolution of the Earth. Mobilism; zonal, azonal and intonal laws and their manifestations.	4				✓	✓			
			Research practice	Objective: To consolidate the theoretical knowledge gained and to acquire practical skills and experience to identify and formulate a scientific problem, research	6				✓				✓

				it and justify solutions. 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 work in the form of scientific publications, to defend his/her position in discussions and to make decisions of professional nature. It forms research and cognitive competence.									
Module Theory and Practice of Geographical Sciences	PD	EC	Methods of Geographical Researches	The aim of the discipline: to deepen knowledge about the methods of geographical research in the field of nature and natural and anthropogenic systems, the methodology of scientific research, the development of scientific thinking Content: Methods of geographical research of natural and natural-anthropogenic systems. Methods and techniques of studying geography, classification of geographical research methods. Methods of studying the landscape as field research. Social and economic research.. Modern technologies in the study of the natural environment (GIS, remote sensing, etc.).	6				✓				✓
	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.	6				✓				✓
	PD	EC	Technology	The aim e of the discipline is to develop	6				✓			✓	

		for Modeling modern EP	<p>methodological and creative professional thinking in modeling modern educational programs.</p> <p>Content: Concepts and definitions of "informatization of education". Principles of using modern technologies of modern educational programs; Scientific potential in modeling technology of educational programs. Methods of analyzing and evaluating various theories, concepts, and approaches to building a system of continuing education. based on artificial intelligence.</p> <p>Modern technologies for modeling educational programs based on artificial intelligence.</p>									
PD	EC	Modern Paradigms of Geographical Education	<p>The aim of the discipline is to provide undergraduates with knowledge about geodynamic processes, methods of forecasting and modeling their consequences, and the definition of protective measures and methods.</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 and measures to reduce the hazards from them.</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>Content: Philosophical and methodological problems of geographical sciences. Theoretical understanding of geography as</p>	6				✓			✓	

				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 approaches, the concept of theoretical geography.									
	PD	EC	History and Methods of Modern Geomorphology	The aim of the discipline: presentation of objective knowledge about geomorphology and modern directions of its development. Content: 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.	6				✓	✓			
Module Concept of Sustainable development and modern	PD	EC	Geodynamic Processes and Natural Disasters	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. 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	5					✓	✓		
	PD	EC	Landscape studies and the study of geosystems	The aim of the discipline is to form the scientific and theoretical foundations of landscape science and geosystem theory. Content: theory and history of the formation of the foundations of landscape	5					✓	✓		

problems of geographical science			science and the doctrine of geosystems. Physico-geographical principles of systematic cognition of the geographical envelope. The essence of the geosystem-massive relationship. The concept of the concepts Geomer, geochore, geotope. A geosystem is a set of interrelated components. V. B. Sochava in the formulation of the doctrine of geosystems. Landscapes by J. Bertrand. Concepts of the nuclear geosystem proposed by A. Yu. Retezum.									
	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 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	5	✓						✓
	PD	EC	Scientific Project Management	The aim of the discipline: development of organizational planning skills and implementation of research projects. 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.	5	✓						✓
	PD	EC	Scientific	The aim of the discipline: is to conduct	5						✓	✓

		and theoretical basics of Study of the Sacred Geography of Turkestan region	research based on the definition of the scientific and theoretical foundations of the geography of sacred sites in the Turkestan region and to conduct an examination of the level of study. Content: sacred places of the Turkestan region. The program "Rukhani zhangyru: Bolashakka bagdar" and the sacred geography of the region. The importance of the geography of sacred sites in education and upbringing. Scientific and theoretical foundations of the study of sacred sites. Holy places as a means of forming 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.									
PD	EC	Geographic Problems of Environment Management and Forecasting	The aim of the discipline: to consider the main trends in the development of modern environmental management, to determine the role, place and importance of economic geography in solving problematic issues. Content: 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 development of world civilization. The concept of sustainable development of the modern world. Features and sustainable regional development of regional governance.	5					✓			✓
PD	EC	Actual problems of modern geography	The aim of the discipline: to introduce the main problems and directions of the development of modern geographical science and to become a general methodological prerequisite for training in various geographical specializations Content: Methodological and cultural	5				✓	✓			

			foundations of geographical knowledge. Problems of cognition in modern geography. Conceptual and methodological foundations of modern geography. Global problems in the development of the Earth. The state of affairs with mineral resources. The fundamental principles of the territorial organization of non-mineral resources. Food resources.										
	PD	EC	Didactic basics of geography teaching methods	The aim of the discipline is to consider the didactic foundations of teaching geography and ways to improve teaching methods. Content: The basics of the didactic process, its patterns, principles, structural components and their functions. The content of the teacher's and students' activities in the use of various forms and methods of teaching. Didactic features of geography teaching methods. Geography teaching tools and their application in the educational process. Scientific research approach in teaching geography.	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 and Defense of Master's Thesis	Examines the basic requirements for Master of Science theses and dissertations. Selects research topics. Work on the research: definition of goals and objectives, subject	8	✓	✓						✓

			and object of research, formulation of hypothesis, definition of criteria for hypothesis evaluation; definition of methodological basis and research methods, collection and processing of primary information. Publication of articles, abstracts of reports on the research results. Registration of the dissertation work. Preparation of the master's thesis for the defence.										
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5. Summary table reflecting the volume of credits mastered by modules of the educational program

Course of training	Semester	Amount of the mastered modules	Amount of the studied disciplines		Amount of KZ credits					Total in hours	Total KZ credits	Amount	
			University component	Optional component	Theoretical training	Pedagogical Practice	Research Practice	Master Research	Final attestation			exam	dif.credit
1	1	4	5	2	29			1		900	30	6	2
	2	4		4	23	4		3		900	30	4	2
2	3	3		5	26		6	3		1050	35	5	2
	4	1						17	8	750	25	1	1
Total			5	11	78	4	6	24	8	3600	120	16	7

6.Strategies, teaching methods and artificial intelligence, monitoring and assessment

<p>Learning strategies</p>	<p>Student–centered learning: The student is the center of teaching/learning and an active participant in the learning and decision-making process.</p> <p>Practice-oriented training: orientation to the development of practical skills.</p>
<p>Teaching methods</p>	<p>Conducting lectures, seminars, various types of practices with:</p> <ul style="list-style-type: none"> • the use of innovative technologies; • problem-based learning; • case study; • work in a group and creative groups; • discussions and dialogues, intellectual games, olympiads, quizzes; • reflection methods, projects, benchmarking; • Bloom's taxonomies; • presentations; • * rational and creative use of information sources: • * multimedia training programs; • * electronic textbooks; • * digital resources. • * machine learning methods <p>Organization of independent work of students, individual consultations.</p>
<p>Monitoring and evaluation of the achievability of learning outcomes</p>	<p>Current control on each topic of the discipline, control of knowledge in classroom and extracurricular classes (according to syllabus). Assessment forms:</p> <ul style="list-style-type: none"> • survey in the classroom; • testing on the topics of the academic discipline; • control works; • protection of independent creative works; • discussions; • trainings; • colloquiums; • essays, etc. <p>Boundary control at least twice during one academic period within the framework of one academic discipline.</p> <p>Intermediate certification is carried out in accordance with the working curriculum, academic calendar.</p> <p>Forms of conducting:</p> <ul style="list-style-type: none"> • exam in the form of testing; • oral examination; • written exam; • combined exam; • project defense; • protection of practice reports. <p>Final state certification.</p>

7. Educational and resource support for EP

<p>Information Resource Center</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 SKU 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 SKU Faculty», «Rare Books», «Electronic Fund», «SKU 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>Material and technical base</p>	<p>Specialised classrooms with an interactive whiteboard - 204, 205, 106,208. Classrooms - 201,203, 301, 303 (building No.7, Baitursynov Street).</p> <p>JSC NCPC "Orleu" IPKPR in the city of Shymkent, Shymkent city.</p> <p>Department of Geography of SKPU named after O.Zhanibekov, Shymkent city</p> <p>Sairam-Ugam State National Nature Park, Shymkent city</p> <p>LLP «ECOCENTRE-CONSULTING», Shymkent city.</p>

APPROVAL SHEET

on the Educational program «7M01560 – Geography»

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