MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHSTAN
KARAGANDA UNIVERSITY NAMED AFTER ACADEMICIAN E.A.BUKETOV

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«25» 03 2022 y.

"I APPROVE"
Chairman of the Management Board-Rector
_____ N.O. Dulatbekov
"26" 03 2022 y.

EDUCATIONAL PROGRAM
in the field of training "7M015 Teacher training in natural science subjects"
"7M01506 - Geography"
Level: Master's Degree

Karaganda, 2022

The educational program "7M01506-Geography" was developed on the basis of:

– Law of the Republic of Kazakhstan dated July 27, 2007 № 319-III "On Education"; Law of the Republic of Kazakhstan dated July 11, 1997 № 151-I. "About languages in the Republic of Kazakhstan"

– State Mandatory Standard of Postgraduate Education № 604 dated August 31 , 2018

– The National Qualifications Framework of March 16, 2016 of the Republican Tripartite Commission on Social Partnership and Regulation of Social and Labor Relations.

– Order of the Ministry of Education and Science of the Republic of Kazakhstan "On approval of the Rules for the organization of the educational process on credit technology" dated October 2, 2018 № 152

– Classifier of training areas with higher and postgraduate education dated October 13, 2018 № 569.

For pedagogical specialties:

– The State compulsory standard of primary education. Approved by the Resolution of the Government of the Republic of Kazakhstan dated August 23, 2012 № 1080. Resolution of the Government of the Republic of Kazakhstan dated August 15, 2017 № 484.

– Professional standard "Teacher" (Appendix to the order of the Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" dated June 8, 2017 № 133)

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program**gram**
l of educ 7M015-Pedagogical sciences
M015- tr ation, areas of training 7M015 Training of teachers in natural science subjects
credits aining of geography teachers

s.
ogical Sc
iences in the educational program "7M01506-Geography"

e license
dy and th for the direction of training KZ 83LAA00018495(016) dated 07/28/2020
pose of t e validity period of the accreditation of the OP -
tence in v e educational program 7M01506-Geography is to provide conditions for obtaining a full-fledged, high-quality
e graduate rious fields of geography.
duate of :
the Master's degree is awarded the degree of "Master of Pedagogical Sciences in the educational program
ssional act
al nature ivity of the graduate: The sphere of professional activity of masters in the educational program 7M01506-
management, landscape studies, sacred geography, attractive geography, local history, limnology, geographical
e graduate
teachers e:
tc.), unive of geography and elective courses on ecology and environmental protection in various educational institutions
tific resea sity teachers, organizers of tourist, local history and environmental work in schools and universities;
al and sp rch in environmental and environmental organizations; public geographical organizations, etc.;
l particula ecialized developments in design and engineering organizations (topographic surveys, creation of maps,
infrastruc r issues of technogenesis and anthropogenesis, ecological trails, recreation, watering, reconstruction, district
ies in gov ture, natural and socio-economic objects, etc.);
vironmen ernment structures of various levels (departments of education, akimats, departments of nature protection and
s organi al organizations, etc.);
of cities, zations on problems of geoecology and environmental protection, rational nature management, population,
districts and rural districts, objects of sacred geography, evaluation procedures, justification of projects, etc.);

d) Functions of the graduate's professional activity:

- educational – transmits educational information, teaches to acquire knowledge independently, constructs training sessions taking into account the linguistic needs and requests of students, uses new learning technologies, including ICT, etc.;
- educating – introduces students to the system of social values, observes pedagogical tact, rules of pedagogical ethics, shows respect for the personality of students, builds the educational process taking into account the national priorities of Kazakhstan, etc.;
- methodical – provides methodological support for the educational process, plans to improve their skills, determines methods and techniques, develops educational materials in accordance with the set goals of classes, etc.;
- research – studies the level of assimilation of educational content by students, explores the educational environment, uses the results of diagnostics of individual characteristics of students;
- social and communicative - interacts with the professional community and with all interested parties of education, initiates innovative ideas that unite stakeholders of education, etc.

Formulation of learning outcomes based on competencies

Type of competencies	Learning result code	Learning result (according to Bloom's taxonomy)
1. Behavioral skills and personal qualities: (Softskills)	RT 1	Apply the knowledge formed in the learning process, skills and abilities in basic and specialized disciplines in future professional, social activities. Improve and develop your intellectual and general cultural level.
	RT 2	Knows how to use knowledge of legal and ethical standards in evaluating the results of his professional activities, in the development and implementation of socially significant pedagogical projects.
	RT 3	Contributes to the professional provision of training and retraining of employees of the organization, forms and develops a managerial and psychological culture.
2. Digital competencies: (Digital skills):	RT 4	Own innovative technologies of geographic mapping, analyze the problems of theory and basic concepts of cartography in modern education in Kazakhstan, evaluate the role and importance of cartography and geoinformatics in school geography.
	RT 5	Knows how to use geographical data, statistical data, information and communication technologies, make calculations, give a comparative description of language dictionaries (Kazakh-Russian-English).
	RT 6	Knows how to use statistical information in geography in the formation of professional competencies related to the development of ideas about the use of digital resources, natural growth, the geography of settlement and urbanization, and the quality of life of the population.
	RT 7	Defines the concepts of geographical innovations, criterial signs of innovation. a methodology for classifying innovations in the field of waste processing based on the identification of certain criteria and parameters characteristic of this kind of geo-innovation, management of innovative activities in the field of environmental protection and rational resource use.
3. Professional competencies: (Hardskills)	RT 8	Able to engage in research work, together with teachers-innovators of a secondary school to improve the intellectual abilities of students by introducing innovative technologies at the school, to study pedagogical phenomena, critical thinking.
	RT 9	Owns a system of knowledge about the global problems of our time for a holistic understanding of the planetary community of people, the unity of nature and society. Understands the importance of geographical trends in social relations.
	RT 10	Understands data on technogenesis, artificial landscapes, technogenic relief, trends, geographical features of regions when choosing a scientific direction in professional activities, improving and developing the general cultural and intellectual level.
	RT 11	Forms economic and geographical characteristics, analyzes the causes of regional differences. Uses modern methods of

		social and economic and geographical research, develops the ability to independently solve standard and non-standard tasks in various areas of professional activity.
	RT 12	He has an idea about geographical local history and physical and geographical knowledge of his region. Knows the legal and actual boundaries of the city, the limits of urban growth. Understands cultural differences between regions of the world, understands the cultural and geographical patterns of various countries. Has an idea about the features of urbanization in industrialized and developing countries.
	RT 13	He owns the history of geographical discoveries, the history of the formation of geographical features, the features of the formation and development of branches of cultural geography, their place in society. Owns an assessment of the impact on the activities of the process of commercialization in society on scientific and technological development.
	RT 14	Explores the possibilities and ways of forming the knowledge and skills of students in geography lessons in the updated content of education through innovative technologies, can carry out research work on the cartographic processing of geographic data, the use of digital educational platforms.

Determination of modules of disciplines in accordance with the results of training

Learning result code	Name of the module	Name of disciplines	Volume (ECTS)
RT 1 RT 3 RT 13	Philosophical and historical aspects of social and humanitarian knowledge	History and philosophy of science	4
		Higher school pedagogy	4
		Management Psychology	4
RT 2 RT 8	Professional languages	Foreign language (professional)	4
		Professional foreign terminology in geography Methods of teaching geographical terms (in English)	5
RT 5 RT 8 RT 13 RT 14	Issues of modern science and technology	Commercialization of the results of scientific and scientific-technical activities Management in geography	5
		Innovation in geography Application of educational innovative technologies in geography lessons	5
v 4 RT 7 RT 11 RT 12	Methods of geographical research	Global geography	4
		Global problems of social geography	4
		Modern methods of geographical research	4
RT 6 RT 9 RT 11 RT 12	Applied areas of geography	Technogenesis of landscapes of arid territories (in English) Formation of functional literacy in geography lessons (in English)	5
		Geographical local history (in English) Regional peculiarities of Kazakhstan (in English)	4
		Cultural geography Geography of cities	
		Sacred geography of Kazakhstan Historical geography	5
		Cartography and geoinformatics in school geography Methodology of compilation of geographical databases and their cartographic processing	4
RT 4 RT 10 RT 12 RT 13	Research work	Research work of a master's student, including internship and completion of a master's thesis (NIRM)	24
	Final certification	Preparation and defense of a master's thesis	12

Matrix of achievability of learning outcomes

NN	Name of disciplines	Brief description of the discipline (30-40 words)	Number of credits	Generated learning outcomes (codes)													
				RT 1	RT 2	RT 3	RT 4	RT 5	RT 6	RT 7	RT 8	RT 9	RT 10	RT 11	RT 12	RT 13	RT 14
Cycle of general education disciplines (for bachelor's degree) Component of choice																	
D1	History and philosophy of science	The discipline studies the supposed values of scientific knowledge in its propensity for development and changing socio-cultural profile. Considers the philosophy of science, its methodology as a cognitive activity. Explores the features of scientific cognition, as well as the functions of science in the life of society.	4	+	+												
D2	Higher school pedagogy	Formation of knowledge about the theoretical foundations of pedagogy, management of the learning process in higher education. The content of the discipline: Higher school pedagogy, its specifics and categories. Modern educational paradigms. The essence and objectives of higher and postgraduate professional education. Characteristics of Kazakhstan's system of higher and postgraduate professional education. Didactics of higher education. Competence-based approach in the training of professionals.	4	+			+										+
D3	Management Psychology	The discipline is aimed at forming students' systemic ideas about psychological features in management activities, in mastering the skills of analyzing socio-psychological manifestations underlying management assessment. The content of the course involves the study of basic concepts, theoretical positions and current problems of management psychology.	4			+											

D4	Foreign language (professional)	As part of the course, consider and study education and science in the modern era. Analyze the system of secondary and higher education in Kazakhstan and abroad. To study the types of schools and universities, the professional training of the future teacher in Kazakhstan and abroad, the dialogue of cultures. Compare university traditions in Kazakhstan and abroad.	4	+				+									
D5	Professional foreign terminology in geography	Russian and Russian-English dictionaries of the main terms used in nature management, geography and computer science, professional vocabulary of the language environment, features of the use of English in the practical activities of geographers, reference information on general geography, English-Russian and Russian-English dictionaries of the main terms used in nature management, geography and computer science.	5					+									
D6	Methods of teaching geographical terms (in English)	Study of geographical concepts and terms of school and university geography textbooks, terminology of objects indicated on thematic geographical maps. The main pedagogical methods, methodological techniques and approaches in the study of geographical concepts and terms. The connection of geographical terminology with toponymy, with the scientific physical-geographical, socio-economic and geopolitical description of objects, phenomena, processes.	5					+									
Cycle of basic disciplines University component																	
D7	Commercialization of the results of scientific and scientific-technical activities	The main approaches to commercializing the results of innovative scientific research. Conducting scientific research commissioned by manufacturing companies; conducting new scientific research funded by state or international programs, grants in priority areas of the economy; creating joint laboratories and new high-tech enterprises.	5											+		+	
D8	Management in	Management in geography, changing the content															

	geography	of the planning function, a comprehensive study of the facts of the successful activities of enterprises, the organization of management depending on the final result, the development of marketing theory and practice, the possibility of developing new technologies. Making decisions that activate the human factor.	5								+		+				
D9	Innovation of geography	Geographical innovations; resource-saving technologies; waste recycling; innovative and ecological climate; classification of innovations. definition of the concept of environmental innovation, criteria features of innovation. the methodology of classification of innovations in the field of waste processing based on the identification of certain criteria and parameters characteristic of this kind of eco-innovation, management of innovative activities in the field of environmental protection and rational resource management.	5				+	+		+							
	Application of educational innovative technologies in geography lessons	Methods and forms of application of innovative technologies in geographical education; the effectiveness of the use of innovative technologies in the course of a modern geography lesson; methods of formation and development of research abilities of students through effective innovative technologies, methods and techniques.	5				+			+							+
D10	Global geography	The discipline examines the modern world on the basis of a global geographical approach: socio-economic and political components of the world, the spatial aspect of global problems of mankind, geoecology. The study of the discipline provides theoretical knowledge about the global problems of our time for a holistic understanding of the planetary community of people, the unity of nature and society.	4										+		+	+	
D11	Global problems of social geography	The content of the main sections of the course:- study of the basic concepts of the course; definition of globalism and geography; changing the face of the Earth, the geography of mankind;	4											+			

		political anatomy of the world; economic differentiation of the world; - global problems of mankind (demographic, food, energy, raw materials, health and longevity, etc.); - geoecology as the focus of global problems (technogenesis, social ecology, global ecology, etc.).															
D12	Formation of functional literacy in geography lessons	The discipline considers the main methods and approaches to the formation of functional literacy in geography lessons, considering it as the level of knowledge, skills and abilities that ensure the normal functioning of the individual in the system of social relations. The study of the discipline makes it possible to acquire theoretical knowledge, skills and practical skills in the field of geographical education, the quality of modern textbooks on geography, including educational materials necessary for successful professional activity.	4						+		+						
D13	Technogenesis of landscapes of arid territories (in English)	The concept is technogenesis, its essence and meaning. Arid territories. Genesis, age. Technogenic landscapes. Technogenic relief.Technogenic processes. Characteristics of technogenic forms and processes. Mining territories.	5					+			+	+	+				
	Modern methods of geographical research (in English)	The discipline examines modern methods of geographical research in the system of geographical sciences, determines the importance of methodological training of geographers at the present stage, when a competent solution to the problems of rational allocation of productive forces of society, the implementation of environmental management, transformation and nature protection is impossible without an integrated geographical approach.	5					+	+		+	+					
D14	Geographical local history (in English)	The essence of geographical local lore. Physical and geographical knowledge of your region. Economic and geographical knowledge of a certain territory of your region. Features of	4					+						+	+		

		geographical local lore. Research work on geographical local lore															
	Regional peculiarities of Kazakhstan (in English)	The discipline considers physical, geoecological, social, economic, geopolitical and other factors affecting the regional specifics of the Republic of Kazakhstan; studies factors and natural conditions taken into account in the historical and geographical location of individual regions of Kazakhstan; considers factors affecting the regional division of the country; explores regional production features.	4						–					+	+		
Cycle of basic disciplines Component of choice																	
D15	Cultural geography	The geography of culture is the study of socio-economic geography, which introduces the differences between the cultures of the environment and the territorial spread of culture; the study of many cultural aspects found throughout the world and their influence; the scientific foundations of geographical culture for the study of the geographical picture of the world, the language of geographical science, geographical and environmental literacy, geographical thinking, the geography of tourism and recreation.	5											+	–	+	
	Geography of cities	The discipline considers the features of the formation and formation of cities, their diversity, settlement in small, historical, multifunctional and agglomerations. Attention is drawn to the historical and geographical approach, which is important and necessary for understanding the formation of cities around the world. Historically, it forms an idea of the role in the formation of the urban environment, the economic basis in the national economy, the vision and assessment of the trajectory of the development of the city, the definition of points of refraction in it, the prerequisites for the development of the city.	5						–				+	+	+		
D16	Sacred geography of	The discipline considers acquaintance with															

	Kazakhstan	historical, cultural, archaeological monuments and religious and ritual centers, historical figures, shrines associated with political, historical events, taking into account the fact that the feeling of patriotism is one of the foundations of the spiritual and moral unity of society. The greatest achievement when using the material of sacred geography in the lesson is the explanation of the need to protect objects in the region.	5										+			–	
	Historical geography	The discipline examines the history of geographical discoveries and the main stages of the study of individual territories; shows the features of the discovery of continents and parts of the world; provides an opportunity to get acquainted with cartographic data on the life and places of travel of explorers and navigators; studies the latest discoveries of new lands, islands, historical campaigns; shows the role and importance of discoveries and travel for the accumulation of geographical knowledge.	5										+			+	
D17	Cartography and geoinformatics in school geography	The discipline examines the basics and methods of geographical cartography and geoinformatics for the study of natural, socio-economic and political geosystems at the local, national, regional and global levels. The study of the discipline makes it possible to acquire theoretical knowledge, skills and practical skills in the field of compiling geographical databases and creating thematic map diagrams, cartograms, cartodiagrams necessary for successful professional activity.	4													+	+

	Methodology of compilation of geographical databases and their cartographic processing	The discipline considers the methodological features of studying the sections of school geography "Cartography and geographical databases" (grades 7-9), "Cartography and Geoinformatics" (grades 10-11). The study of the discipline makes it possible to deepen theoretical knowledge, acquire skills and practical skills in the field of teaching methods of school geography, necessary for successful professional activity.	4				+	+										+

Coordination of the planned learning outcomes with the methods of teaching and evaluation within the module

Learning outcomes	Planned learning outcomes for the module	Teaching methods	Assessment methods
LO1	Apply the knowledge formed in the learning process, skills and abilities in basic and specialized disciplines in future professional, social activities. Improve and develop your intellectual and general cultural level.	Active methods: - dialog - group discussion	Oral interview
LO 2	Knows how to use knowledge of legal and ethical standards in evaluating the results of his professional activities, in the development and implementation of socially significant pedagogical projects.	Active methods: - individually adaptive - modular technologies	Self-assessment and evaluation in the group
LO 3	Contributes to the professional provision of training and retraining of employees of the organization, forms and develops a managerial and psychological culture.	Innovative technologies: - project training - case methods	Writing an essay
LO 4	Own innovative technologies of geographic mapping, analyze the problems of theory and basic concepts of cartography in modern education in Kazakhstan, evaluate the role and importance of cartography and geoinformatics in school geography.	Interactive methods: - discussion - analysis of specific situations	Project preparation
LO 5	Knows how to use geographical data, statistical data, information and communication technologies, make calculations, give a comparative description of language dictionaries (Kazakh-Russian-English).	Interactive method : - individually-adaptive; - information and communication technologies	Creating plan presentations
LO 6	Knows how to use statistical information in geography in the formation of professional competencies related to the development of ideas about the use of digital resources, natural growth, the geography of settlement and urbanization, and the quality of life of the population.	Active methods: - software training - Delphi method	Creating a presentation of schematic maps
LO 7	Defines the concepts of geographical innovations, criterial signs of innovation. a methodology for classifying innovations in the field of waste processing based on the identification of certain criteria and parameters characteristic of this kind of geo-innovation, management of innovative activities in the field of environmental protection and rational resource use.	Inverted Class (Flipped Class): - round table - discussion	Colloquium
LO 8	Able to engage in research work, together with teachers-innovators of a secondary school to improve the intellectual	Interactive method: - contextual learning	Independent work / essay writing

	abilities of students by introducing innovative technologies at the school, to study pedagogical phenomena, critical thinking.	- the method of developing operations	
LO 9	Owns a system of knowledge about the global problems of our time for a holistic understanding of the planetary community of people, the unity of nature and society. Understands the importance of geographical trends in social relations.	Technology of problem-based learning - active method	Portfolio
LO 10	Understands data on technogenesis, artificial landscapes, technogenic relief, trends, geographical features of regions when choosing a scientific direction in professional activities, improving and developing the general cultural and intellectual level.	Modular technology - a method for solving creative tasks by a group	Scientific project
LO 11	Forms economic and geographical characteristics, analyzes the causes of regional differences. Uses modern methods of social and economic and geographical research, develops the ability to independently solve standard and non-standard tasks in various areas of professional activity.	Research and training methods: - control - experience - processing of statistical data	Control work
LO 12	He has an idea about geographical local history and physical and geographical knowledge of his region. Knows the legal and actual boundaries of the city, the limits of urban growth. Understands cultural differences between regions of the world, understands the cultural and geographical patterns of various countries. Has an idea about the features of urbanization in industrialized and developing countries.	Research and training methods: - control - experience - processing of statistical data	Practical work
LO 13	He owns the history of geographical discoveries, the history of the formation of geographical features, the features of the formation and development of branches of cultural geography, their place in society. Owns an assessment of the impact on the activities of the process of commercialization in society on scientific and technological development.	Interactive method: - training - round table	Chronological map
LO 14	Explores the possibilities and ways of forming the knowledge and skills of students in geography lessons in the updated content of education through innovative technologies, can carry out research work on the cartographic processing of geographic data, the use of digital educational platforms.	Research and training methods: - control - experience - processing of statistical data	Control work

Criteria for assessing the achievability of learning outcomes

Learning outcomes	Criteria
LO 1	Knows: knows how to improve and develop their intellectual and general cultural level.
	Able: able to realize the purpose of using theoretical knowledge and practical skills acquired in the study of geographical disciplines.
	Owns: Owns in his professional activity, he can take his civic position in the priorities of competitiveness, pragmatism, mutual understanding, tolerance and democratic values of modern society.
LO 2	Knows: Knows the role of spiritual processes in modern society, the legal interests of the parties in the protection of the rights of individuals and legal entities, the economic and social conditions of entrepreneurial activity, the impact of harmful and dangerous factors on humans and the natural environment.
	Able: Able to determine the basics of teaching, upbringing and development of children, taking into account social, age, psychophysical and individual characteristics; able to apply modern health-saving technologies to ensure the protection of life and health of schoolchildren.
	Owns: owns and understands the essence of the pedagogical process of a secondary school, its laws and patterns; knows the essence of the learning process, its goals, objectives, functions, organizational forms; evaluates the main characteristics of modern pedagogical technologies.
LO 3	Knows: knows how to ensure the professional level of professional development and retraining of employees of the organization, forms and develops managerial and psychological culture.
	Is able to: Use knowledge and understanding at a professional level, form Arguments and is able to solve problems in the studied area. He is able to analyze the global problems of humanity, to suggest ways to solve them.
	Owns: To characterize and understand geographical processes and phenomena that are global in nature or related to the main regions and sub-regions of the world.
LO 4	Knows: Knows the methods of teaching in higher education. Identify and name cartographic methods in physical and economic-geographical research, know the basics of geoinformatics, be able to perform cartographic material in various graphic editors of information and communication technologies (ICT).
	Can: can base on advanced knowledge of physical geography, has knowledge and concepts in the studied area.
	Owns: Owns innovative geographical mapping technologies, analyzes the problems of the theory and basic concepts of cartography in modern education in Kazakhstan, evaluates the role and importance of cartography and geoinformatics in school geography
LO 5	Russian Russian: Knows geography, geography and computer science, geography of the main terms used in the professional dictionary in the language environment, English-Russian and Russian-English dictionaries.
	Can: Can calculate statistical indicators of social and economic data, make diagram calculations, give a comparative characteristic of the territorial features of the countries of the world in political geography, assess settlement, settlement and natural population growth, conduct demographic calculations.
	Owns: To apply the methodology of teaching geography disciplines in the conditions of the updated content of education; understands the basic methods, techniques and technologies of teaching geographical disciplines; makes calendar-thematic, long-term and medium-term planning; develops thematic lesson plans; applies and owns the acquired knowledge in practical and professional activities.
LO 6	Knows: Knows the plan for the creation of joint laboratories and new high-tech enterprises; conducting research on the discipline of mining companies; providing grants for priority areas of the economy, funded by state or international programs.
	Is able to: Is able to use the results of soil research to solve the tasks, knows the geographical position of soils and the main soil sections, is able to apply the results in solving soil problems.
	Owns: Owns the use of digital resources in geography lessons
LO 7	Knows: To define the concepts of geographical innovations, criteria of innovativeness. It is able to determine certain criteria and parameters inherent in this type of geo-innovation.
	Able to: Possess the skills of public speaking and written reasoned presentation of his point of view and able to work in proper cultural communication with a parent, student.

	Owns: owns the basic pedagogical concepts; designs and implements the organization of the pedagogical process in a modern school. owns the goals and objectives of education and training
LO 8	Knows: Scientific research work: is able to analyze pedagogical phenomena, situations, data together with teachers-innovators of secondary school, to increase the intellectual abilities of students, students through the introduction of innovative technologies on the basis of the school.
	Can: . Use modern educational teaching technologies, methods and techniques of teaching geography, planning and staging of experiments, analysis and discussion of results; understands the methodology of planning and conducting a lesson, drawing up diagrams and maps; is able to work with pedagogical and information technologies
	Possesses: to develop critical thinking, to establish the ratio of the general with the real; to possess the skills of working with an independent memorized model..
LO 9	Knows: the importance of the younger generation in public relations; innovatively implements the learning process aimed at teaching students at Higher school; is able to develop various options for technology and education
	Able: Able to possess a system of knowledge about the global problems of our time for a holistic understanding of the planetary community of people, the unity of nature and society.
	Objective: to assess the impact of various factors on the formation of the economic and geographical structure of districts. Has a focus on the prevailing features of the development and placement of the productive forces of the Republic of Kazakhstan.
LO 10	Knows: Independently masters new research methods for the improvement and development of their general cultural and intellectual level, the choice of scientific direction in professional activity.
	Can: can argue his own point of view based on cartographic materials; solves problems in new or unfamiliar situations in the context of demography and urban studies.
	Owns: Evaluates the essence and methodological foundations of the latest research methods in the field of physical and economic geography; is able to apply modern methods of social, physical and economic-geographical research in solving geographical problems; classifies methods of geographical research; is able to conduct independent search, analysis, selection of information, its transformation and preservation.
LO 11	He knows: To make an economic and geographical characteristic, analyze the causes of regional differences, build diagrams, apply modern methods of social and economic and geographical research.
	Can: Adjust the content of education; develop the ability to independently solve standard and non-standard tasks in various fields of professional activity
	Possesses: Possesses the ability not only to change the content of education in education, but also to independently solve standard and atypical tasks in various fields of professional activity as the main goal
LO 12	Knows: To provide an effective solution to professional and pedagogical problems and typical professional tasks that arise in specific conditions of pedagogical activity, using life experience, existing qualifications, generally recognized values.
	Is able to: is able to work with devices of hydrological devices, is able to apply methods of performing the simplest hydrological calculations, carrying out basic hydrometric works.
	Owns: basic physical patterns in the explanation of various hydrological processes and phenomena; shows on the map the main hydrological objects and their characteristics
LO 13	Knows:; knows the ideas and Concepts of cultural geography, understands cultural differences between regions of the world, understands cultural and geographical models of different countries. He knows that the education system plays a leading role in the socio-economic development of society.
	Is able: is able to use the theory of cognition, improves the quality of knowledge, focuses on the result, during which the state standard is able to develop a personality – developing function with a high information and communication culture, able to find a solution to the problem as a result of professionally acquired research skills and skills in achieving the desired results.
	Proficient in: apply methods and approaches of retrospective space research; knows the theory and methods of research in the field of historical geography in practice and in professional activity.
LO 14	Knows: knows distance learning technologies, uses distance learning methods, information and communication technologies, Internet services, distance learning platforms, is able to perform distance learning tasks

	Can: Can work with cartographic data using the basic ICT of distance education on the updated content of education
	Proficient: Proficient in advanced methods of geographical education, taking into account the connection between school and society, between student and teacher.

EDUCATIONAL PROGRAM DEVELOPMENT PLAN
7M01506-Geography

№	Indicators	Ед. изм.	2022-2023 (in fact)	2023-2024 (plan)	2024-2025 (plan)	2025-2026 (plan)
1	**Human resources development**					
1.1	Increase in the number of teachers with academic degrees	4	4	3	2	2
1.2	Advanced training in the teaching profile	13	12	12	13	13
1.3	Involvement of practitioners in teaching	2	2	2	2	2
2	**Promotion of the OP in the ratings**					
2.1	HAOKO	1	1	1	1	1
2.2	HAAP	1	1	1	1	1
3.	**Development of educational and scientific-methodical literature, electronic resources**					
3.1	Textbooks	1	1	1	1	1
3.2	Training manuals	3	3	2	2	2
3.3	Methodological recommendations/instructions	1	1	1	1	1
3.4	Electronic textbook	1	1	1	1	1
3.5	Video/audio lectures	1	1	1	1	1
4.	**Development of educational and laboratory facilities**					
4.1	Purchase of software products	1	1	1	1	1
4.2	Purchase of equipment	2	2	2	2	2
4.3	Other	-	-	-	-	-
5.	**Updating the content of the EP**					
5.1	Updating the results of training and the list of disciplines taking into account the requirements of the labor market, scientific achievements, professional standards	2022-2023	+	+	+	+
5.2	Introduction to the EP of academic disciplines in foreign languages*	2023-2024	+	+	+	+
5.3	Introduction of new teaching methods	2022-2023	+	+	+	+
5.4	Opening of a joint/two-degree program on the basis of the OP	2024-2025	-	-	-	+

Head of the Department of Geography **Kadirbayeva D.A.**

The graduate model of the educational program

Graduate attributes (developed on the basis of competencies and learning outcomes):

- Ability to critical thinking
- Scientific approach
- Adaptability to global challenges
- Leadership
- Entrepreneurial thinking
- Global citizenship
- Understanding the importance of the principles and culture of academic integrity

Types of competencies	Description of competencies
1. Behavioral skills and personal qualities (Softskills)	Ability to critical thinking, analysis, independent organization of their professional activities. The ability to quickly solve tasks, the ability to act in non-standard situations, to take responsibility for themselves. The ability to independently develop, define and solve the tasks of their professional and personal development, engage in self-education. Knowledge of languages, work ethics, discipline, sense of responsibility, ability to work in a team.
2. Digital competencies (Digital skills):	The ability to develop and use information and communication technologies in professional activities, to have awareness of the basic technologies of digital learning. Ability to analyze modern methods and principles of geographical project management, substantiate scientific approaches using digital technologies. The ability to master the generally accepted language of international communication in a digital environment. Activity in the creation and collection of data, their processing and analysis.
3. Professional competencies (Hardskills)	Determination of methodological techniques and approaches to teaching geographical disciplines in higher education, mastering modern educational technologies, the ability to successfully organize and implement the educational process; mastering deep skills of the subject of professional activity, innovations, information and communication technologies, creative and critical thinking; in-depth mastery of pedagogical and psychological activity, mastery of business qualities, critical and creative thinking, the ability to professionally self-regulate the psycho-emotional state in various socio-psychological conditions, the ability to close the chosen degree of existential educational competence; moral confidence, agreement with one's conscience and strong will, moral actions, moral behavior; moral education as an integral pedagogical process that meets the norms of universal morality, organizing the whole life of students; activity, communication, communication taking into account their age and individual characteristics; tolerance, emotional stability, regulatory flexibility, social activity and a developed system of self-regulation; training in identification and reflection, social communication, creative self-realization in any activity, search pedagogical meanings, depth and constructiveness of self-expression, self-realization and self-realization - self-improvement.

Developers:

Members of the working group:

Head of the Department of Geography, Candidate of Pedagogical Sciences, Associate Professor — D.A. Kadirbayeva

Teacher of the department of geography — Zh.Amanbek

Master of the MGO-51 group — G. Zhakanova

Deputy director for profile education school named after N. Nurmakova — Z.Zh. Ibraeva

The educational program was reviewed by the Faculty Council from 25.03.2022 protocol №. 8
The educational program was reviewed at the meeting of the Academic Council from 28.04.2022 protocol №. 5
The educational program was reviewed and approved at the meeting of the University Board from 26.05.2022 protocol №. 12

Board Member-Vice-Rector for Academic Affairs — T. Z. Zhusupbek
Director of the Academic Work Department — G.S. Akybayeva
Dean of the Faculty of Biology and Geography — S.A. Talzhanov