

**«ALIKHAN BOKEIKHAN UNIVERSITY» EDUCATIONAL  
INSTITUTION**

Faculty of Humanitarian  
Department of History and Social Sciences of the Humanities

**THE CATALOGUE OF ELECTIVE SUBJECTS**  
**B014 Training of geography teachers**  
**6B01505 – «Geography»**  
Year revenue - 2021

Considered and approved at the meeting of educational-methodic Council of the faculty

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Degree awarded: bachelor of education in educational program 6B01505 - " Geography"

№ optional component	Name of the discipline	Number of credits	Prerequisites	Post-requisites	A brief description indicating the purpose of the study, brief content and expected results of the study (knowledge, skills, skills, competencies)
General education subjects					
Optional components (OK)					
Module of economic and legal knowledge					
1	Fundamentals of market economy and entrepreneurship;	3	School course of General education subjects	-	<p>The purpose of teaching this discipline is to form a systematic economic thinking to understand the logic of economic laws of society, processes and phenomena occurring at all levels, with the ability to apply knowledge in practice in any conjuncture and in any economic system. Mastering the skills of scientific and practical foundations of business organization, methods of its planning and implementation in modern market conditions.</p> <p><b>Content:</b> consideration of the Institute of entrepreneurship; mastering the economic skills of organizing business and evaluating its effectiveness; identification and use of state mechanisms for regulating and supporting entrepreneurship. Study of the processes and phenomena of economic life of society; development of methods, methods, principles, approaches to the study of economic processes;</p> <p><b>Learning outcome:</b></p> <p><b>Know:</b> the functions of money, the reasons for differences in the level of remuneration; the main types of taxes; organizational and legal forms of entrepreneurship; types of securities; factors of economic growth; the current state of the theory and practice of business; the specifics of business;</p> <p>Be able to: give examples of factors of production and factor income, public goods, Kazakhstani enterprises of different organizational forms, global economic problems; describe the action of the market mechanism, the main forms of wages and labor incentives, inflation, the main articles of the state budget of Kazakhstan,</p>

					<p>economic growth, use the basic terminology of modern entrepreneurship; use methods of conducting business activities; <b>Skills:</b> obtaining and evaluating economic information; preparing a family budget; evaluating your own economic actions as a consumer, family member, and citizen. <b>Competence:</b> Subject and special</p>
1	Basics rights and anti-corruption culture	2	School course of General education subjects	-	<p><b>The purpose of studying the discipline:</b> Studying the course and familiarizing students with the formation of a system of knowledge on combating corruption and developing a civil position in relation to this phenomenon on this basis. <b>Content:</b> Fundamentals of anti-corruption culture is an integral interdisciplinary knowledge system for all specialties and areas of bachelor's training. <b>Expected result:</b> As a result of studying the discipline, students should <b>know:</b> the essence of corruption and the reasons for its origin, the measure of moral and legal responsibility for corruption offenses. <b>Be able to:</b> possess the skills to acquire new knowledge about the anti-corruption culture is an integral interdisciplinary knowledge system. <b>Competence:</b> Subject and special</p>
<b>Module of economic and natural knowledge</b>					
2	Fundamentals of market economy and entrepreneurship;	3	School course of General education subjects	-	<p>The purpose of teaching this discipline is to form a systematic economic thinking to understand the logic of economic laws of society, processes and phenomena occurring at all levels, with the ability to apply knowledge in practice in any conjuncture and in any economic system. Mastering the skills of scientific and practical foundations of business organization, methods of its planning and implementation in modern market conditions. <b>Content:</b> consideration of the Institute of entrepreneurship; mastering the economic skills of organizing business and evaluating its effectiveness; identification and use of state mechanisms for regulating and supporting entrepreneurship. Study of the processes and phenomena of economic life of society; development of methods, methods, principles,</p>

				<p>approaches to the study of economic processes;</p> <p><b>Learning outcome:</b></p> <p><b>Know:</b> the functions of money, the reasons for differences in the level of remuneration; the main types of taxes; organizational and legal forms of entrepreneurship; types of securities; factors of economic growth; the current state of the theory and practice of business; the specifics of business;</p> <p><b>Be able to:</b> give examples of factors of production and factor income, public goods, Kazakhstani enterprises of different organizational forms, global economic problems; describe the action of the market mechanism, the main forms of wages and labor incentives, inflation, the main articles of the state budget of Kazakhstan, economic growth, use the basic terminology of modern entrepreneurship; use methods of conducting business activities;</p> <p><b>Skills:</b> obtaining and evaluating economic information; preparing a family budget; evaluating your own economic actions as a consumer, family member, and citizen.</p> <p><b>Competence:</b> Subject and special</p>
2	Fundamentals of life safety and ecology	2	School course of General education subjects	<p>-</p> <p><b>Goal:</b> To form ideas about the safety of life in human life and the possibility of regulating the processes of mutual influence of the environment and man. Content. Study of the basic concepts of life safety, ecology, problems of modern civilization and environmental consequences of economic and other human activities in the conditions of intensification of natural resources management, emergencies, and civil defense. Disclosure of the principles and methods of protecting the population from various environmental factors, legislation and legal acts in the field of BW. Conservation of the environment and biological resources.</p> <p><b>Expected results of the study:</b></p> <p><b>students should know:</b> the legal framework for life safety and environmental control, as well as methods for identifying, eliminating the influence of harmful factors on people and the environment, and ensuring comfortable conditions for human life and activity; be able to: systematize safety standards for use in</p>

					<p>professional activities; choose methods of protection against hazards in relation to their professional activities and choose ways to ensure comfortable living conditions; have the skills to ensure the safety of life in industrial, domestic conditions and in emergency situations, the skills to provide first aid.</p> <p><b>Competence:</b> Subject and special</p>
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<b>№ optional component</b>	<b>Name of the discipline</b>	<b>Number of credits</b>	<b>Prerequisites</b>	<b>Post-requisites</b>	<b>A brief description indicating the purpose of the study, brief content and expected results of the study (knowledge, skills, skills, competencies)</b>
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**Basic discipline**

**Optional components (OC)**

<b>1</b>	Meteorology with the basics of climatology	5	Geographical knowledge obtained in secondary school	Geology, Geomorphology	<p><b>Content:</b> The disciplines studies the process which occur in atmosphere; structure and chemical mixture of atmosphere;</p> <p><b>Target:</b> To study the meteorological features and climate processes</p> <p><b>Expected results:</b></p> <p><b>Know:</b> Skills of using technology and device for weather discovering, weather forecast based on the results.</p> <p><b>Have the skills:</b> formation and structure of clouds, appearance of the fog, moving and circulation of the air</p>
<b>1</b>	Biogeography	5	Geographical knowledge obtained in secondary school	Modern problems of physical geography, Paleogeography	<p><b>Content:</b> introduces the laws of distribution and placement of living organisms and their groups on the globe. Biogeography-a biocenotic, landscape description of organisms with the definition of historical origin and distribution zones in the continents and oceans.</p> <p><b>Expected result:</b></p> <p><b>Be able to:</b> know the diversity and distribution of living organisms</p> <p><b>Know:</b> features of formation and consolidation of fauna and flora</p>
<b>2</b>	General hydrology	5	Geographical knowledge obtained in secondary school	Geology, Geomorphology	<p><b>Content:</b> Give the notion about the common regularity of hydrological processes on the Earth, the role and the meaning of the natural water (rivers, lakes, seas, oceans, glaciers, bogs) in the geographical cover.</p> <p><b>Target:</b> To determine the water</p>

					resources and their hydrological order <b>Expected results:</b> <b>Knowing</b> of the physical and chemical features of inner and external water and their importance for mankind <b>Have the skills:</b> the role and the meaning of the natural water (rivers, lakes, seas, oceans, glaciers, bogs) in the geographical cover.
2	Modern problems of physical geography	5	Geographical knowledge obtained in secondary school	Paleography, Environment protection	<b>Content:</b> Students distinguish theoretical bases of physical geography (landscape), nature protection, nature management and their modern problems <b>Target</b> To determine the nature changes as a result of anthropogenic processes and the problems of their prevention <b>Expected results:</b> <b>Knowing</b> The knowledge of influence and results of the human activity on nature <b>Have the skills:</b> the role and nature protection, nature management and their modern problems
3	Geology	5	Meteorology with the basics of climatology, General hydrology	Geomorphology, Geography of soils	<b>Content:</b> The Earth as a space body. The physical measures of the Earth: form, size, weight, consistence. Ecosphere of the Earth and the inner construction - the earth's crust, mantle, nuclear. Characteristics of the physical and chemic features of the Earth's covers. The types of the Earth's crust: continental, oceanic. Structural elements of the Earth's crust in different rows. <b>Target:</b> Explanation of the Earth appearance as a planet <b>Expected results:</b> <b>Knowing</b> Can to determine the appearance and development of the Earth as a planet <b>Have the skills:</b> physical and chemical processes on the Earth
3	Paleography	5	Biogeography, Modern problems of physical geography	Environment protection, Physical geography of UIS	<b>Content:</b> The main contest is the study of flora and fauna the previous epoch. The study of physical conditions in previous geological life. Regularities of different group of flora and fauna development, their kind changes and extinction <b>Target:</b> To know the geological history of the Earth planet <b>Expected results:</b> <b>Knowing</b> The knowledge of endogenous and exogenous processes from the birth of the Earth planet <b>Have the skills:</b> physical and chemical

					processes on the Earth
4	Cartography and bases of topography	5	Meteorology with the basics of climatology, General hydrology	Political map of the world, The geography of international economic relations	<p><b>Content:</b> Maps and atlases, main properties, contents and elements. Mathematical basis of maps, ways of the cartographical image, cartographical generalization. <b>Target:</b> training in drawing up maps of various scale</p> <p><b>Expected results:</b></p> <p><b>Know:</b> Ability to distinguish cartographical and topographic maps and work with them</p> <p><b>Have the skills:</b> Analyses and assessment of the maps and atlases</p>
4	The history of cartography	5	Biogeography, Modern problems of physical geography	Physical geography of UIS, Economic and social geography of the CIS	<p><b>Contents:</b> the Object of study are the magnitude, the determination of heights with the help of instruments (level and theodolite), holding shemko location plan, using symbols <b>Target:</b> Knowledge of the appearance of the first card and development</p> <p><b>Expected results: Knowledge</b> of the history of the appearance of cards and the ability to use them <b>Have the skills:</b> the Ability to distinguish between cartographic and topographic maps and work with them</p>
5	Geography of population	5	Geographical knowledge obtained in secondary school	Political, economic and social geography of the world, Economic and social geography of Kazakhstan	<p><b>Content:</b> The formation stages of local settlement. Types of rural settlements by population. Factors of agricultural separateness. Problems of rural settlements in transitional period and their perspectives.</p> <p><b>Target:</b> To study the ethnic structure of the universal national demography</p> <p><b>Expected results:</b> Students must <b>know</b> the nature safety, excursion resources and types of tourism.</p> <p><b>Have the skills:</b> The formation stages of local settlement. Types of rural settlements by population.</p>
5	Country study	5	Geographical knowledge obtained in secondary school	Economic and social geography of the CIS, Geopolitics	<p><b>Content:</b> Examines fertility, mortality rates in the world, as well as the factors influencing demografičesikie processes. Population policies in the countries of India and the world</p> <p><b>Target:</b> The natural features, people, religion, languages and economic development of countries.</p> <p><b>Have the skills:</b> Knowledge of the geographical characteristics of the country</p>
6	Geomorphology	6	Geology, Meteorology with the basics	Geography of soils, Physical geography of	<p><b>Content:</b> Structure, appearance and the development of relief of landscape; modern exogenous process; anthropological factors changed the</p>



			of climatology	Kazakhstan	relief; <b>Target:</b> To study the endogenous and exogenous processes on the Earth's cover <b>Expected results:</b> <b>Know:</b> To determine the geological structure of relief <b>Have the skills:</b> analysis of the basic stages of mountain building; the influence of exogenous and endogenous factors
6	Environment protection	6	Biogeography, Modern problems of physical geography	Physical geography of UIS, Soil geoecology	<b>Content:</b> The system of state and common measures on improvement of natural environment, the effective use of natural resources, saving and improvement of natural wealth <b>Target:</b> To determine the measures on the Earth's surface reconstruction, which were disturbed in a result of anthropogenic processes <b>Expected results:</b> <b>Know:</b> The knowledge of international program activities on the environment protection <b>Have the skills:</b> analysis of the basic stages of mountain building; the influence of exogenous and endogenous factors
7	Physical geography of Kazakhstan	5	Meteorology with the basics of climatology, Geology	Physical geography of continents and oceans, Geoecology and nature protection	<b>Content:</b> Physical and geographical differentiation and influence of anthropogenic factors on the natural complexes. The influence of Kazakhstan's intercontinental position on differentiation of local complexes in different taxonomic stage. Landscape is one of the fundamental notions of modern physical geography. Physical and geographical province as a component of huge natural territorial complex. Physical and geographical zoning of Kazakhstan <b>Target:</b> To examine the physical and geographical situation on the territory of Kazakhstan <b>Expected results:</b> Knowledge of the geological territory organization, relief, climate <b>Have the skills:</b> inner water, flora and fauna, natural zones of Kazakhstan
7	Physical geography of UIS	5	Modern problems of physical geography, Biogeography	Recreational geography, Geography environmental management	<b>Content:</b> The discipline deals with the physical and geographical characteristics of the UIS's territory <b>Target:</b> To examine the physical and geographical situation on the territory of UIS <b>Expected results:</b> <b>To know</b> Knowledge of the geological

					territory organization, relief, climate, inner water, flora and fauna, natural zones of UIS <b>Have the skills</b> the influence of exogenous and
8	IT in education	5	Information and communication technologies (in English) language)	New pedagogical technologies in teaching geography in specialized classes	<p><b>Content:</b> the Role of information technology in education. It standards in education. Human-computer interaction. Software. Operating system. Introduction to computer systems. Architecture of computer systems.</p> <p><b>The purpose of the course:</b> to study information technologies in education, as well as it standards in education.</p> <p><b>Expected result:</b> As a result of mastering the discipline, the student should know: information about software in the operating system and introduction to computer systems.;</p> <p><b>Be able to:</b> present the results of their activities in the form of written and oral responses.</p> <p>* independently applies teaching methods and techniques that contribute to the development of self-regulation of students, methods of self-assessment and mutual assessment of educational achievements;</p> <p>* principles and methods of organizing educational activities taking into account the individual characteristics of students;</p> <p>* theories and technologies for evaluating academic achievements;</p> <p>Competence: Training and special</p>
8	Digital education technologiesDigital education technologies	5	Information and communication technologies (in English) language)	New pedagogical technologies in teaching geography in specialized classes	<p><b>Content:</b> Trends in the development of modern education. Basic principles of information search, storage and systematization. Features of working with visual information. Developing an intelligence map or infographic. Organization of independent work of students in social networks.</p> <p><b>Expected result:</b> As a result of mastering the discipline, the student should know: information about the development of intelligence maps or infographics, as well as the organization of independent work of students in social networks</p> <p><b>Be able to:</b> present the results of their activities in the form of written and oral responses.</p> <p>* independently applies teaching methods and techniques that contribute to the development of self-regulation</p>

					<p>of students, methods of self-assessment and mutual assessment of educational achievements;</p> <p>* principles and methods of organizing educational activities taking into account the individual characteristics of students;</p> <p>* theories and technologies for evaluating academic achievements;</p> <p>Competence: Training and special</p>
9	Global geography and fundamentals of environmental management	5	Geology, Physical geography of Kazakhstan, General hydrology	Geography of soils, Urboekologiya	<p><b>Content:</b> We study the types of natural resources, mineral deposits, methods of extraction, technological processing and use in human economic activities, as well as their impact on the environment.</p> <p><b>Objective:</b> to Study the classification of natural resources, their distribution, production and prospects</p> <p><b>Expected results:</b></p> <p><b>Know:</b> Know the reasons for the different distribution of natural resources on Earth; their extraction and forecasting prospects and their use</p> <p><b>Have skills:</b> use in human economic activities, as well as their impact on the environment.</p>
9	Technical and economical bases of industry	5	Paleogeography, Modern problems of physical geography	Methods of calculation and design in geography, Geoeconomics	<p><b>Content:</b> To give the deep knowledge of modern machinery and technologies of the important branches in economic complex, the use of production force, efficient use of nature minerals and development of ecological and economical thinking</p> <p><b>Target:</b> To save the balance between the nature and industry according to the economical use of the minerals</p> <p><b>Expected results:</b> The <b>knowledge</b> The knowledge of different forms in branch-wise relations, their influence on allocation and activity</p> <p><b>Have the skills:</b> their mining and forecast prospects</p>
10	Geoecology and nature protection	5	Geology; Physical geography of Kazakhstan, General hydrology	Geography of soils, Urboekologiya	<p><b>Contents:</b> Geoecology is one of the directions of geographical science. It studies the ecological features of geographical systems at a high hierarchical level (physical and geographical zone, province, landscape) in order to preserve an environmentally friendly environment and ensure the efficient use of natural resources. On the other hand, Geoecology-this also applies to the field of ecology, since geographical processes based on additional</p>

					<p>environmental laws.</p> <p><b>Objective:</b> to Study the ecological background of the environment in the framework of natural and anthropogenic geosystems</p> <p><b>Expected results:</b></p> <p><b>Know:</b> Knowledge of natural resource protection</p> <p><b>Have skills:</b> about ecological features of geographical systems of high hierarchical level (physical and geographical zone)</p>
10	History study of the nature of Kazakhstan	5	Paleogeography, Modern problems of physical geography	Geography environmental management, Recreational geography	<p><b>Content:</b> Studies geographical research in historical periods, starting with the first study of the Kazakh land. The works of Arab researchers of the middle ages, Russian travelers-researchers, as well as the works of Herodotus in antiquity, etc. are considered.</p> <p><b>Purpose:</b> to Study the nature of Kazakhstan from ancient times to the present day.</p> <p><b>Expected results:</b></p> <p><b>Know:</b> Knowledge of the works and discoveries of travelers and researchers of nature in Kazakhstan.</p> <p><b>Have skills:</b> about travelers and researchers who study the nature of the territory of Kazakhstan, study their works and discoveries.</p>
11	Economic and social geography of Kazakhstan	5	Geography of population, Geographical knowledge obtained in secondary school	Political map of the world, Political, economic and social geography of the world	<p><b>Content:</b> The main contest of the discipline is social, branch-wise, agricultural structure of the states, its parts or separate regions</p> <p><b>Target:</b> To examine the social and geographical position of the country their development</p> <p><b>Expected results:</b></p> <p>To <b>know</b> the population, demographic situation of the branch-wise production in Kazakhstan</p> <p><b>Have the skills:</b> formation and structure of clouds, appearance of the fog, moving and circulation of the air</p>
11	Economic and social geography of the CIS	5	Country study, Geographical knowledge obtained in secondary school	Geography of the modern world, Geoeconomics	<p><b>Content:</b> The main contest of the discipline is social, branch-wise, agricultural structure of the states, its parts or separate regions</p> <p><b>Target:</b> To study the economic and social position of the UIS</p> <p><b>Expected results:</b></p> <p>To <b>know</b> To know the population, demographic situation of the branch-wise production in the UIS and their development</p> <p><b>Have the skills:</b> formation and structure of clouds,</p>

					appearance of the fog, moving and circulation of the air
12	Anthropogenic Landscape studying	5	Physical geography of Kazakhstan, Global geography and fundamentals of environmental management	Urboekologiya	<p><b>Content:</b> In this course learning the influence of anthropological factors to lithogenic area, soil and other components of nature</p> <p><b>Target:</b> To learn the natural landscape changes as a result of anthropological process</p> <p><b>Expected results: Knowledge</b> of anthropological landscape types, possibilities of change technological landscape into the cultural one</p> <p><b>Have the skills:</b> study the ethnic structure of the universal national demography</p>
12	Modern problems of climate change	5	Modern problems of physical geography, Environment protection	Regional geography, Geoecological monitoring	<p><b>Contents:</b> global climate change, the need to "fit" the rural and national economy in the world</p> <p><b>Target:</b> Determination of the degree of change in the Earth's climate with the result of anthropogenic processes and their effects on other natural components</p> <p><b>Expected result: to Know:</b> Knowledge of the climate, phenomena and processes and their interaction</p>
13	Innovative technologies in teaching geography географии	5	Methods of teaching geography	FSA	<p><b>Content:</b> the Course examines the state, patterns and main trends in the development of modern school geography in the world, various countries and regions, Kazakhstan;</p> <p><b>Purpose:</b> to analyze the trends and features of the development of geography in Kazakhstan and their impact on school geography; - to analyze different approaches to the choice of technologies for teaching geography; - to develop various types of classes using innovative technologies.</p> <p><b>Expected result:</b></p> <p><b>Know:</b> features and nature of the application of new teaching technologies</p> <p><b>Be able to:</b> apply new pedagogical technologies in the classroom</p>
13	Methods of calculation and design in geography	5	Methods of teaching geography	FSA	<p><b>Content:</b> General scientific methods determine the basis of phenomena and processes in nature, the prospects for their development. Studies methods and application technologies used in the complex study of the natural-territorial complex, geographical envelope, geographical environment, geographical zone, geographical landscape.</p>

					<p><b>Purpose:</b> to Study methods of geographical science research and technology of their application</p> <p><b>Expected result:</b></p> <p><b>Be able to:</b> determine geographical patterns using research methods of geographical science, know the technology of creating maps</p> <p><b>Know:</b> geographical methods and General scientific methods: comparative method, system method, ecological method, physical method, Chemical method, physical and chemical methods.</p>
14	Updated educational content and criteria assessment system	5	Methods teaching geography of	FSA	<p><b>Content:</b> criteria-based assessment is based on the process of comparing educational achievements of students, carried out on the basis of comparison with certain collectively developed criteria for all participants in the process in accordance with the goals and content of education that contribute to the formation of educational and cognitive competence of students.</p> <p><b>Goal:</b> this will ensure the quality of assessment procedures, their compliance with international standards and the need for each student to learn.</p> <p><b>Expected result:</b></p> <p><b>Be able to:</b> give an idea of formative assessment and aggregate assessment.</p> <p><b>Be able to:</b> apply criteria-based assessment methods based on the process of comparing students ' academic achievements</p>
14	New pedagogical technologies in teaching geography in the profile class	5	Methods teaching geography of	FSA	<p><b>Content:</b> learning technology understands ways to improve the effectiveness of learning, designing the learning process with specific set results.</p> <p>The term "Technology" is derived from foreign methods, in which it is used to describe various organized educational processes.</p> <p><b>Purpose of study:</b> the purpose of studying this discipline is to develop students ' teaching skills; attract students to teacher education, their readiness and ability to conduct classes.</p> <p><b>Expected results:</b></p> <p><b>Know:</b> knowledge of new educational technologies</p> <p><b>Be able to:</b> master the ability and role of new educational technologies</p>

15	Geography of tourism	5	Economic and social geography of Kazakhstan, The geography of international economic relations	World Economy Geography	<p><b>Content:</b> Intended for familiarization with world tourism, its formation, directions of tourist flows. Students learn about the nature, culture, society, economy and tourist advantages of Asia, Africa, Australia, North and South America, etc. The degree to which students are provided with information about travelers on the planet, points of arrival, volume and efficiency is provided.</p> <p><b>Goal:</b> development and prospects of international tourism industries.</p> <p><b>Expected result:</b></p> <p><b>Be able to:</b> characterize international tourism in the world economic system;</p> <p><b>Be able to:</b> determine the features of tourist destinations; determine the trends of tourism development in each country;</p>
15	State regulation of tourism development	5	Country study, Economic and social geography of the CIS, География современного мира	Urboekologiya , Geoecological monitoring	<p><b>Content:</b> Study of the theoretical foundations of the formation and development of tourism and analysis of the system of state regulation of tourism. Considers issues that hinder the effective functioning of tourism in Kazakhstan. Defines recommendations aimed at improving the efficiency of tourism activities in the Republic of Kazakhstan.</p> <p><b>Purpose:</b> to consider the main directions and forms of regulation of the development of the tourism industry in the direction of the state.</p> <p><b>Expected result:</b></p> <p>To know the meaning of the regulation of the sphere of tourism of the state, especially the investments and their application</p> <p><b>Be able to:</b> reveal the features of investing in the tourism industry and use them features</p>

№ optional component	Name of the discipline	Number of credits	Prerequisites	Post-requisites	A brief description indicating the purpose of the study, brief content and expected results of the study (knowledge, skills, skills, competencies)
<b>Main subject</b>					
<b>Optional components (OC)</b>					
1	Landscape Studies	3	Meteorology with the basics	Physical geography of	<b>Content:</b> The landscape structure of the natural regions. Landscapes of

			of climatology, General hydrology	Kazakhstan, Anthropogenic Landscape studying	plain and mountain. Hierarchy of geosystems and morphological structure of the landscape. The main organizational levels of geosystems: local, regional, planetary. Functioning and dynamic of the geosystems <b>Target:</b> To examine the appearance of natural conditions, possibilities of their changes, influenced on the natural forces, anthropogenic forces <b>Expected results:</b> <b>To know</b> how to conduct the regularities of general land studying and landscape studying, <b>Have the skills:</b> to know the connection between them
1	Geophysics of landscapes	3	Modern problems of physical geography, Biogeography	Physical geography of UIS, Modern problems of climate change	<b>Contents:</b> Reflect the individual characteristics of the landscape, the nature of mineral deposits through plants, the presence of rare chemical elements in the skin of animals and the presence of minerals in the region. Studies the natural features of each of them, dividing the landscape into taxonomic units <b>Purpose:</b> to study the types of landscapes and their geophysical features <b>Expected result:</b> <b>Facts:</b> the geophysical landscape types and value <b>You should know:</b> the prospects for development, changes, and the development of links between them, both in territorial natural complexes and in certain places.
2	Political map of the world	4	Cartography and bases of topography, Geography of population	Political, economic and social geography of the world, World Economy Geography	<b>Content:</b> Students learn the regularities and the main stages of modern political map formation <b>Target:</b> The study of map changing, qualitative changes in political maps <b>Expected results:</b> To know the history of cartography. Qualitative and quantitative changes of the countries on the political map.
2	Geopolitics	4	Country study, The history of cartography	Geography of the modern world, Geoeconomics	<b>Content:</b> Study of the geopolitical situation and the demarcation and delimitation state of the world's countries. In addition, economic, environmental, social and political issues between countries on the planet are considered. <b>Purpose:</b> to study the basics of world political geography, events and trends in it, the relationship in these issues occurring in the world, with the geopolitical position of Kazakhstan.



					<b>Expected result:</b> <b>Know:</b> Features of the current political situation in various regions of the world; <b>Be able to:</b> Know the geopolitical consequences arising from the collapse of the USSR for Kazakhstan and other CIS countries
3	Physical geography of East Kazakhstan	5	Physical geography of Kazakhstan, Geomorphology	Physical geography of continents and oceans	<b>Content:</b> Physical and geographical features of the East Kazakhstan: geographical position, characteristics of the geological structure and relief, climate and hydrograph, soil-growth cover <b>Target:</b> To study the physical and geographical position of the East Kazakhstan <b>Expected results:</b> To <b>know</b> the geological arrangement, relief, climate features, inner water, flora and fauna of Kazakhstan <b>Have the skills:</b> The influence of Kazakhstan's intercontinental position on differentiation of local complexes in different taxonomic stage.
3	Geography environmental management	5	Environment protection, Modern problems of physical geography	Recreational geography, Regional geography	<b>Content:</b> on the way to enter the world economic arena, the "seven" and developing countries have only recently begun to use natural resources and rational use of natural resources. This subject sought to use ways of rational use, restoration of depleted and inexhaustible natural components. <b>Purpose:</b> to characterize the creation of an organization and the organization of eco-economic effective measures for the use of natural resources. <b>Expected result:</b> <b>Be able to:</b> efficiently use natural resources in environmental and economic terms. <b>Know:</b> ways to use natural resources effectively
4	Economic and social geography of the East Kazakhstan	5	Economic and social geography of Kazakhstan, Geography of population	Political, economic and social geography of the world, World Economy Geography	<b>Content:</b> The main content of the discipline is social, branch-wise, agricultural structure of the states, its parts or separate regions <b>Target:</b> To study the economic and social position of the UIS <b>Expected results:</b> <b>To know</b> the population, demographic situation of the branch-wise production in the UIS and their development <b>Have the skills:</b> formation and structure of clouds, appearance of the fog, moving and circulation of the air

4	Political and social geography of Kazakhstan	5	Economic and social geography of the CIS, Country study	Geoeconomics, Regional geography	<p><b>Content:</b> the Basis of the content of students' education in economic and geographical disciplines is the social, sectoral, political, economic and regional structure of States, its parts or individual regions.</p> <p><b>Purpose:</b> to Study the socio-political situation of Kazakhstan. Studies the composition of the population, the demographic situation and their distribution, the industry of Kazakhstan production and their development.</p> <p><b>Expected result:</b></p> <p><b>Know:</b> political and social situation of Kazakhstan</p> <p><b>Be able to:</b> Kazakhstan's Role in the global geopolitical situation</p>
5	Physical geography of continents and oceans	5	Physical geography of Kazakhstan, Physical geography of East Kazakhstan	Regional geography, Geoecological monitoring	<p><b>Content:</b> The meaning of regional physical and geographical courses for studying economical and social geography. The continents and the oceans – the main natural objects. The parts of the world</p> <p><b>Target:</b> To study the physical and geographical position of the continents and oceans</p> <p><b>Expected results:</b></p> <p><b>Knowledge</b> The appearance of the continents and oceans, theory of mobility, location and dynamic of the earth's mats, inner water, climate and flora.</p>
5	Recreational geography	5	Environment protection, Geography environmental management	Regional geography, Geoecological monitoring	<p><b>Content:</b> The scientific direction studying development of geographical regularities of the organization of free from work of time of the person</p> <p>Common features of recreational geography of many countries of Europe and America. The main object of recreational geography – the regional recreational system (RRS)</p> <p><b>Target:</b> Studying of recreational resources and recreational areas, their communications with regional systems, their features and separate subsystems, Petja of management and development prospects</p> <p><b>Expected results:</b></p> <p>Knowledge of tourism and rest geography in the world, types of the organization of rest and recreational resources</p> <p><b>Have the skills:</b> The influence of Kazakhstan's intercontinental position on differentiation of local complexes in different taxonomic stage.</p>

6	Political, economic and social geography of the world	5	Economic and social geography of Kazakhstan, Economic and social geography of the East Kazakhstan	Regional geography, Geoecological monitoring	<p><b>Содержан Content:</b> The place and the role of the course is in the system of geographical discipline – core of modern knowledge system. Political and geographical position of concrete state in political map of the world. The regions of political intensity</p> <p><b>Target:</b> To learn the development of social economy in the world's countries</p> <p><b>Expected results: To know</b> the ethnic-religious structure, demographic situation and economic development of countries of the world</p> <p><b>Have the skills:</b> Political and geographical position of concrete state in political map of the world.</p>
6	Geoeconomics	5	Economic and social geography of the CIS, Geography of the modern world	Regional geography	<p><b>Contents:</b> geo-Economics considers economic reality in relation to space. This course examines the interaction between homo economicus and space: the influence of spatial factors on the sphere of production and distribution of goods, the use of space for the deployment of economic activities.</p> <p><b>Goal:</b> geo-Economics will present the economic reality in a way that can be achieved in accordance with the characteristics of space.</p> <p><b>Expected result:</b>NAT: Fundamentals of geo-economic definitions</p> <p><b>Be able to:</b> Analyze the nature of economic competition and conflicts at the global level</p>
7	World Economy Geography	6	The geography of international economic relations, Political, economic and social geography of the world	FSA	<p><b>Contents:</b> the types of farms in the world and its development are considered. Studies the relationship and development of industries, fuel energy, ferrous and non-ferrous metallurgy, agriculture.</p> <p><b>Purpose:</b> to study the types of farms in the world.</p> <p><b>Expected result:</b></p> <p><b>Know:</b> types of farms in the world and forecast its development and prospects.</p> <p><b>Be able to:</b> features and prospects of development of types of farms</p>
7	Regional geography	6	Geography of the modern world, Geoeconomics	FSA	<p><b>Content:</b> Studies the structure and dynamics of the geographical envelope in order to scientifically substantiate the optimal ways of territorial organization of society, including population settlement, production placement, effective use of natural resources and conditions of social production, conservation and renewal of these resources and conditions in</p>

					<p>the interests of modern and future generations, spatial distribution of its components and interaction.</p> <p><b>Purpose:</b> to Study the optimal ways of territorial organization of society.</p> <p><b>Expected result:</b></p> <p><b>Know:</b> Rational use of natural resources and conditions of social production, placement of production, economic population in the countries of the world</p> <p><b>Must know:</b> the System of natural and social Sciences that study natural-territorial and territorial-industrial complexes in the geographical envelope of the Earth and their components.</p>
8	Urboekologiya	3	Global geography and fundamentals of environmental management, Geoecology and nature protection	FSA	<p><b>Content:</b> Examination of creation of favourable, natural, psychological, social conditions to the cities' population</p> <p><b>Target:</b> To learn the ecological position of the world's cities</p> <p><b>Expected results: Knowledge</b> of complication social position of the inhabitants in accordance to the rise of economic level <b>Have the skills:</b> Change of ecological situation and ways of renewal</p>
8	Geoecological monitoring	3	Environment protection, Soil geoecology	FSA	<p><b>Content:</b> Basic content of course towards to making own presentation about the basic ways of departure from global ecological crisis, upbringing the humane attitude to the nature and human; realization the ability of utilization unique potential, which consist of spiritual relations with the nature world for the personal ecologic professional evolution</p> <p><b>Target:</b> To learn the ways of light with anthropological change of natural environment</p> <p><b>Expected results: Knowledge</b> of the meaning geoecological monitoring</p> <p><b>Have the skills:</b> which consist of spiritual relations with the nature world for the personal ecologic professional evolution</p>

## LIST OF ELECTIVE COURSES

**Form of education: Full-time**

**Studying term: 4 years**

Name of Discipline	Discipline Code	Credits	Semester
General educational disciplines			
Component of choice 1			
Module of economic and legal knowledge		5	2
Basics of a Market Economy and Entrepreneurship	BMEE1111	3	
Fundamentals of law and anti-corruption culture	FACC1111	2	
Component of choice 2			
Module of economic and natural knowledge		5	2
Basics of a Market Economy and Entrepreneurship	BMEE1112	3	
Basics of life safety	BLS1112	2	
Basic disciplines			
Component of choice 1			
Meteorology with bases of climatology	MWBC2214	5	3
Biogeography	BG2214		
Component of choice 2			
General hydrology	GH2215	5	3
Modern problem of the physical geography	MPPG2215		
Component of choice 3			
Geology	Geo2216	5	4
Paleogeography	PG2216		
Component of choice 4			
Cartography and bases of topography	CBT2217	5	4
The history of cartography	HC2217		
Component of choice 5			
Geography of population	GP2218	5	4
Country study	CS2218		
Component of choice 6			
Geomorphology	GM3219	6	5
Environment protection	EP3219		
Component of choice 7			
Physical geography of Kazakhstan	PGK3220	5	5
Physical geography of UIS	PGUIS3220		
Component of choice 8			
IT in education	ITE 3221	5	5
Digital educational technologies	DET 3221		
Component of choice 9			
Global geography and fundamentals of environmental management	GGFEM3222	5	6
Technical and economical bases of industry	TEBI3222		
Component of choice 10			
Geocology and nature protection	GNP3223	5	6
History study of the nature of Kazakhstan	HSNK3223		
Component of choice 11			
Economic and social geography of Kazakhstan	ESGK3224	5	6
Economic and social geography of the CIS	ESGCIS3224		

<b>Component of choice 12</b>			
Anthropogenic Landscapestudying	AL 4225	5	7
Modern problems of climate change	MPCC4225		
<b>Component of choice 13</b>			
Innovative technologies in teaching geography	ITTG4226	5	7
Methods of calculation and design in geography	MCDG4226		
<b>Component of choice 14</b>			
Updated educational content and criteria assessment system	IECCAS 4227	5	7
New pedagogical technologies in teaching geography in the profile class	NPTTGPC 4227		
<b>Component of choice 15</b>			
Geography of tourism	GT4228	5	7
Geography of tourism	GT4228		
<b>Main disciplines</b>			
<b>Component of choice 1</b>			
Landscape Studies	LS2306	3	4
Geophysics of landscapes	GL2306		
<b>Component of choice 2</b>			
Political map of the world	PMW3307	4	5
Geopolitics	GP3307		
<b>Component of choice 3</b>			
Physical geography of East Kazakhstan	PGEK3308	5	6
Geography environmental management	GEM3308		
<b>Component of choice 4</b>			
Economic and social geography of the East Kazakhstan	ESGEK3309	5	6
Political and social geography of Kazakhstan	PSGK3309		
<b>Component of choice 5</b>			
Physical geography of continents and oceans	PGCO4310	5	7
Recreational geography	RG4310		
<b>Component of choice 6</b>			
Political, economic and social geography of the world	PESGW4311	5	7
Goeconomics	GE4311		
<b>Component of choice 7</b>			
World Economy Geography	WEG4312	6	8
Regional geography	RG4312		
<b>Component of choice 8</b>			
Urboekologiya	UE4313	5	8
Geoecological monitoring	GM4313		

