

MODULAR EDUCATIONAL PROGRAM

according to the educational program

6B01505- «Geography"

Semey, 2021

Elaborated: Teachers of the Department of History and Social Sciences and Humanities

Discussed and approved at the meeting of the Department

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(protocol № _5_ _ " _28_ " __05____2021)

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1.1. Explanatory note of the educational program 6B01505 - "Geography"

The modular educational program (MOE) was compiled on the basis of the State Mandatory Standard of Higher Education, approved by Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 604 dated 31.10.2018; the Rules for organizing the educational process on credit technology of education, approved on October 12, 2018 by Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 563, the Professional Standard "Teacher", approved by Order of the Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" No. 133 dated June 8, 2017. Regulations on the implementation of educational programs (Order 01.26/2019). Regulations on the dual system of education at the Kazakh Humanitarian and Legal Innovation University (Order 01.13/2019). The structure of the modular educational program was approved by the Academic Council of the University (Protocol No. 5 of 17.01.2014). Rules of registration for Elective Component Disciplines (Order 01.18/2019).

The modular educational program is designed to provide a unified approach to the formation of educational programs on credit technology training. They are developed on the basis of regulatory documents of the Ministry of Education and Science of the Republic of Kazakhstan on the creation of methodological foundations for the development of an educational program. This regulation contains a description of the learning outcomes based on Dublin descriptors and competencies, the definition of general and subject competencies, requirements for the development of an educational program on a modular basis. The MOS is designed as a set of sequential training modules for the entire period of study and is aimed at mastering the competencies necessary for awarding a bachelor's degree in the educational program - 6B01505 – Geography.

To the modules of the OOD block (OK56 credit) and elective components (KV) – 5 credits, disciplines common to all educational programs are included, during the study of which the graduate must master the following competencies: : knowledge of the laws of development of society and its socio-political, legal, economic, environmental foundations, as well as cultural and historical values, the basics of computer science, language communication and understanding of the principles of a healthy lifestyle, possession of information about the political life of the country.

The DB block includes disciplines of the university component (OK) -112 credits and elective components (KV) - 71 credits. The modules of these disciplines form a set of competencies: the formation of professional qualities, covering deep scientific, theoretical and methodological knowledge, practical skills and skills in historical, theoretical and branch sciences in the field of the educational program.

The PD block includes disciplines of the university component (OK) - 60 credits; and elective components (KV) - 35 credits. Modules of these disciplines allow you to form a complex of key and special competencies acquired by a graduate: the formation of professional qualities, including theoretical and empirical knowledge, as well as skills for practical actions, the ability to analyze and solve geographical problems, for successful problem solving.

The criterion for the completion of the educational process is the student's mastering of 228 credits of theoretical training and the IGA - 12 credits of the MOS consists of 21 modules.

Duration of training - 4 years

1.2. PURPOSE AND OBJECTIVE OF THE EDUCATIONAL PROGRAM

The main purpose of the modular educational program 6B01505 in accordance with the mission of the university: Mastering special competencies in the field of teaching methods with the formation of general cultural and professional competencies of students, as well as training

highly qualified teachers who are able to independently and creatively solve problems in accordance with the requirements of the legislation of the country, having the values of the teaching profession, using traditional and innovative geographical methods and sources of information.

The main objectives of the educational program 6B01505 Geography:- Providing high-quality professional training of future geography teachers in accordance with the world standard of education and the social order of society.

- Formation of a system of basic, general professional, professional competencies in the context of the updated content of education.

1.3. THE AREA (APPLICATION OF KNOWLEDGE AND SKILLS) OF THE GRADUATE'S ACTIVITY, WHERE HE CAN WORK:

Sphere of professional activity: The sphere of professional activity of a bachelor under the educational program 6B01505 "Geography" is the educational process in school, secondary specialized public and private educational organizations (lyceums, gymnasiums and colleges). Объекты профессиональной деятельности:

The object(s) of the bachelor's professional activity under the educational program 6B01505 "Geography" are the organization of secondary and post-secondary education, including lyceums, colleges, gymnasiums. Also, the objects of professional activity are research institutes and organizations, institutes of advanced training, publishing houses, libraries, methodological offices.

Subject of professional activity: The subject of the bachelor's professional activity according to the educational program 6B01505 "Geography" is the

planning of the educational process, organization of educational activities, team management, motivation of students, consulting, methodological, educational work, innovative activities in the field of education, research work.

Types of professional activity: Bachelors according to the educational program 6B01505 "Geography", the following types of professional activities can be performed:

- Education (secondary school, lyceum, gymnasium, college, geography teacher);
- Departments (departments of education, akimats, environmental and environmental organizations);
- Research organizations in the fields of science (geography, ecology, geology, cartography, hydrology, seismology, soil geography, etc.). The field of activity in which a graduate can work (application of knowledge and skills) :
- Organization of preschool education and upbringing;
- Primary, basic and advanced schools (lyceums, gymnasiums);
- Specialized schools;
- After graduation from technical, vocational and secondary special education;

Functions of professional activity: Bachelors in the educational program 6B01505 "Geography" can perform the following functions:

- the implementation of pedagogical activities in educational institutions;
- ensuring the unity of education, upbringing and development;
- improvement of teaching methods and technologies;

- identification of current research directions in the field of pedagogy, geography;
- providing advice on the organization of the educational process and geography;
- management of the activities of the educational institution;
- coordination of the work of structural units, public organizations;
- conducting cultural and educational work among students.

2. THE GRADUATE'S COMPETENCE MODEL

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№	COMPETENCIES	Labor functions	
1	General education competence.	Labor function 1 is training.	▼
2	General professional competence:	Labor function 1 training Labor function 2 Educating	
3	Special competence:	Labor function 3 Methodical Labor function 4 Research Labor function 5 Social and communicative	

Classification of competencies of the educational program 6B01505 - "Geography"

The competence of general education disciplines includes OK 1:

Labor function - 1: Educational - translates educational information, teaches to acquire knowledge independently

Skills and abilities:

- independently constructs training sessions taking into account the linguistic needs and requests of students;
- independently uses new learning technologies, including ICT

taking into account the advice of a mentor or ready-made methodological guidelines, prescriptions and recommendations, **Knowledge:**

- conducts standard training sessions using didactic knowledge in integration with knowledge in a special field;

- under the guidance of a mentor, creates conditions for the adaptation of school-age children to communication in target languages: Kazakh Ya2, Russian Ya2, English Ya3 (for teachers involved in multilingual education programs);
- in cooperation with colleagues, plans training sessions taking into account the principles of integration and continuity of education at all levels of secondary education (primary, basic secondary, general secondary)

Knowledge:

- classical provisions of school didactics in integration with theoretical concepts of a special field (academic subjects, educational areas);
- new achievements in the field of psychological and pedagogical sciences;
- pedagogical technologies of differentiated and integrated learning, developmental learning, features and specifics of the competence approach in teaching;
- methods of developing students' research skills, developing their language competencies;
- principles and methods of formation of communicative, informational, legal, environmental, professional competencies of students;
- methods of pedagogical goal-setting for designing new models and strategies of the educational process
- principles and mechanisms of integration and continuity of school, post-secondary and higher education;
- theoretical concepts and provisions in the field of modern linguistics and linguistics (for teachers involved in multilingual education programs);
- linguistic mechanisms of intercultural communication (for teachers involved in multilingual education programs);
- paradigms of co-study of languages, co-study of languages and cultures (for teachers involved in multilingual education programs);
- languages functioning in the learning environment, for academic and professional purposes (for teaching staff involved in multilingual education programs)

The competence of the basic disciplines includes:

OPK 2 - General professional competencies

Labor function - 1: Educational - translates educational information, teaches to acquire knowledge independently

Skills and abilities:

independently constructs training sessions taking into account the linguistic needs and requests of students;

* independently uses new learning technologies, including ICT

• taking into account the advice of a mentor or ready-made methodological guidelines, prescriptions and recommendations, conducts standard training sessions using didactic knowledge in integration with knowledge in a special field;

* under the guidance of a mentor, creates conditions for the adaptation of school-age children to communication in target languages: Kazakh Ya2, Russian Ya2, English Ya3 (for teachers involved in multilingual education programs);

* in cooperation with colleagues, plans training sessions taking into account the principles of integration and continuity of education at all levels of secondary education (primary, basic secondary, general secondary)

Knowledge:

- classical provisions of school didactics in integration with theoretical concepts of a special field (academic subjects, educational fields);
- new achievements in the field of psychological and pedagogical sciences;
- pedagogical technologies of differentiated and integrated learning, developmental learning, features and specifics of the competence approach in teaching;
- methods of developing students' research skills, developing their language competencies;
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- methods of pedagogical goal-setting for designing new models and strategies of the educational process
- principles and mechanisms of integration and continuity of school, post-secondary and higher education;
- theoretical concepts and provisions in the field of modern linguistics and linguistics (for teachers involved in multilingual education programs);
- linguistic mechanisms of intercultural communication (for teachers involved in multilingual education programs);
- paradigms of co-study of languages, co-study of languages and cultures (for teachers involved in multilingual education programs);
- languages functioning in the learning environment for academic and professional purposes (for teachers involved in multilingual education programs)

Labor function - 2: Educating - introduces students to the system of social values

Skills and abilities:

- observes pedagogical tact, rules of pedagogical ethics;
- shows respect for the personality of students;
- adheres to a democratic style in relations with students;
- shows commitment to the highest social values, to the ideas of humanistic pedagogy;
- shows familiarity with the system of universal and national values in their unity;
- builds the educational process taking into account the national priorities of Kazakhstan;
- shows the ability to resist any kind of discrimination, extremism;
- develops cultural awareness, language competence
- promotes the development of a favorable educational environment for the realization of cultural and linguistic needs of students;
- forms a tolerant attitude to a different culture,

Knowledge:

- school pedagogy;
- educational psychology;
- innovative technologies for the education of school and adolescent children;
- educational potential of academic subjects (subject areas);
- principles of integration of educational content with national values of Independent Kazakhstan
- ways of forming students' positive self-esteem, motivation to learn languages, civic identity and linguistic tolerance

Labor function - 3: Social and communicative-carries out interaction with the professional community and with all interested parties of education

Skills and abilities:

- independently involves students in the system of additional education;
- independently initiates innovative ideas that unite education stakeholders (various creative associations, associations, etc.)•
- independently attracts representatives of professional communities, law enforcement agencies, medical, social services, children's and youth movements, youth associations, public and political parties, non-governmental organizations, etc. to the educational process.

Knowledge:

- fundamentals of communication psychology and professional communication;
- forms and methods of cooperation in the professional community, including the network community;
- forms and methods of interaction with various social groups (external stakeholders of education);
- fundamentals of professional leadership

The competence of the profile disciplines includes:

SK 3-Special competencies

Labor function - 1: Methodical - provides methodological support for the educational process

Skills and abilities:

- independently plans to improve their skills;
- independently selects information from Internet sources;
- under the guidance of a mentor, defines methods and techniques, forms general academic skills and skills of students;
- develops training materials in accordance with the set goals of classes under the guidance of a mentor and/or in accordance with instructions and requirements;
- creates a favorable learning environment for students in cooperation with colleagues

Knowledge:

- methods of self-determination for the development of additional knowledge;
- ways to implement individual professional development plans ;
- principles and methods of constructing situational pedagogical tasks;
- principles and methods of development of educational and program documentation;
- features of the organization of the educational process, taking into account the use of subject-language learning technology (for teachers involved in multilingual education programs)

Labor function - 2: Research - studies the level of assimilation of educational content by students, explores the educational environment

Skills and abilities:

- independently uses the results of diagnostics of individual characteristics of students;
- in cooperation with colleagues, identifies learning needs and difficulties;
- uses methods of joint reflection with colleagues in the context of practice research;
- plans and conducts research on the educational environment under the guidance of a mentor

Knowledge:

- principles and methods of research of the educational environment, research of educational practice
- research methods in pedagogy;
- methods of psychological and pedagogical tracking of students' activities

According to the competencies of the basic and profile disciplines, taking into account the Dublin descriptors, Bachelor 6B01510 Geography-**History must:**

- demonstrate knowledge and understanding in the field being studied, including elements of the most advanced knowledge in geography;
- применять apply this knowledge and understanding at a professional level;
- formulate arguments and solve professional problems in the process of learning geography;
- to collect and interpret information to form judgments taking into account social, ethical and scientific considerations.

In order to create special conditions for people with special educational needs to receive education, the graduate's competence model is supplemented with professional competencies that ensure the adaptive nature of the main educational program. For this purpose, courses for the formation of the ability of persons with special educational needs to successfully socialize in society and actively adapt to the labor market, taking into account the characteristics of the disease, are introduced into the catalog of courses of the additional educational program "Minor".

. Table 1. The sequence of mastering disciplines in the process of forming special competencies according to the educational program 6B01505 - "Geography"

№	Competence	List of compulsory, elective disciplines and sequence their studies on each learning path		Expected results
		List of disciplines	The sequence of their study	
Вузовский компонент				
1.	Special	General science	Earth 3rd semester	To know: The state and prospects of development of geographical science and its role in modern scientific knowledge about nature and society; physico-chemical

				<p>foundations of natural processes and phenomena, the causes that determine them;</p> <p>Be able to:</p> <p>To build and analyze graphs of the relationship between natural phenomena, diagrams that facilitate the comparative analysis of the territory or various components of the geographical envelope; to be able to compile climatic, hydrological and other natural characteristics of territories from various sources in textual, tabular or graphical forms; to be able to work with literary, cartographic and numerical material.</p> <p>Possess the following skills:</p> <p>Conceptual and categorical apparatus of the discipline; a system of knowledge about global and regional patterns of formation, development and differentiation of geosystems and natural complexes; formed as a result of the continuous development of a whole complex of interrelated and interdependent natural processes and phenomena.</p>
2.	Special	Natural science	4th semester	<p>To know: the place of natural science in the structure of scientific knowledge, the logic of its formation and development, the fundamental laws and concepts of modern natural science;</p> <p>Be able to: use the laws of natural science disciplines in professional activity, apply methods and means of cognition for intellectual development, raising the cultural level, professional competence;</p> <p>Have skills: natural science culture of thinking and erudition in the field of modern natural science. Knowledge of the main achievements of the totality of natural sciences is intended, first of all, to replace full-fledged courses of these disciplines for students of humanities and economics of universities of all forms of education, such as physics, chemistry, geology, cosmology and biology.</p>
3.	Special	Methods of teaching geography	5th semester	<p>To know: the goals and objectives of teaching geography at school, methods, means of teaching geography at school; modern forms of organization of the educational</p>

				<p>process, types and forms of the main form of organization of the educational process - lesson</p> <p>Be able to:</p> <p>independently prepare and conduct a geography lesson on any topic, section, course of school geography; use all previously accumulated geographical information: reference books (yearbooks, etc.), dictionaries, encyclopedias, educational, popular science and scientific and methodological literature on geography and methods of teaching geography; analyze the relationship of the geographical content of school geography courses.</p> <p>Have the skills:</p> <p>basic knowledge in the field of geography, didactics, psychology, methods of teaching geography necessary for the formation of geographical knowledge in school.</p> <p>To apply the acquired knowledge and skills in practice and in professional activity - provides information about the methodology of teaching geography in secondary school.</p> <p>Students master the skills of applying new methods of teaching geography and gain theoretical knowledge about the subject</p> <p>The methodology of teaching geography is a pedagogical science, built taking into account age characteristics. One of the main tasks of improving the content of geographical education is to fully reflect the current level of development and achievements of the system of geographical sciences. This is reflected in the economic, environmental and humanitarian orientation of the content of education, the integration of physical-geographical and economic-geographical knowledge.</p>
Компонент по выбору				
4.	Special	Landscape studies	4th semester	<p>To know:</p> <p>The history and current state of landscape studies; about the composition, structure, laws of development and territorial division by the geographical shell of the Earth; about the causes and general patterns of territorial physical and geographical differentiation; about global and local causes of the diversity of natural territorial complexes (landscapes).</p> <p>Be able to:</p>

				<p>Identify morphological parts of the landscape on the topological basis and on the terrain; classify and compare landscapes at the planetary, regional and local levels; use the available factual material on the structure, functioning, dynamics, evolution of natural objects for the introduction of rational nature management, ecological characteristics of territories, their individual components (soils, rocks, biota, waters, relief, climate); be able to apply the knowledge gained in their professional activities.</p> <p>Have skills: Skills in reading and analyzing landscape maps; novelties in drawing up complex profiles and landscape maps of different scales.</p>
		Geophysics of landscapes	4th semester	<p>To know: Conceptual foundations of landscape science within the framework of the geosystem paradigm; the purpose and objectives of geophysics in the system of Earth sciences; theoretical foundations of landscape geophysics; -balance equations of geosystems;</p> <p>Be able to: Navigate the vertical and horizontal structure of landscapes</p> <p>Possess skills: Skills of working with geophysical methods and geophysical data apply skills of working with geophysical methods and geophysical data in professional activities</p>
5.	Special	Physical geography of East Kazakhstan	6th semester	<p>To know: The main patterns of formation and interrelation of components of geosystems of the Republic of Kazakhstan; the geological history of the development of the territory of the Republic of Kazakhstan and its influence on the formation of relief, minerals, water resources, climate, etc. the influence of anthropogenic factors on the natural complexes of the Republic of Kazakhstan; geosystem-basin approach to the study of the natural environment of the Republic of Kazakhstan;</p> <p>Be able to: Analyze the interrelationships of components of geosystems; use the acquired knowledge in solving applied economic problems, environmental protection problems of the Republic of Kazakhstan.</p>

				<p>Have skills: The influence of the intercontinental position of the Republic of Kazakhstan on the differentiation of native complexes of different taxonomic rank.</p>
		Geography nature management	6th semester	<p>To know: The structure of geographical science, methodological principles of geography; definition of the object and subject of geography; methods of geographical research; the main relationships in the multicomponent system represented by the geographical shell; the structure and functioning of both individual geospheres of the Earth and the geographical shell as a whole; methodological principles of physical geography and its role in the system of Earth sciences;</p> <p>Be able to: Be guided by the basic principles, patterns and laws of the spatial and temporal organization of geosystems at the global and regional levels; must have a holistic understanding of the natural processes that form the basis of functioning, natural evolution and anthropogenic changes in the geographical envelope, natural-territorial complexes, ecosystems; -be able to extract and refer geographical information and literature, including the Internet</p> <p>Have skills: Skills in the analysis of general physical and geographical relationships at the macro level; basic methods of geographical analysis (primarily cartographic and system analysis). basic concepts of science studies, initial knowledge about global and regional problems for the practical application of the knowledge gained in solving professional tasks and making decisions in the course of economic activity, as well as responsibility for the quality of work and scientific reliability of the results</p>
6.	Special	Economic and social geography of East Kazakhstan	6th semester	<p>To know: - the political and administrative structure of East Kazakhstan. Clearly represent which administrative entities are part of economic, socio-economic districts,; the national and religious picture of the population, the features of ethnodemographic processes in districts, regions,</p> <p>Be able to: analyze the natural resource potential of districts, regions,; - analyze the problems and prospects of development in districts, regions, be able to reliably</p>

				<p>state their economic and geographical characteristics; about the territorial structure of the economy of districts, regions.</p> <p>Have skills:</p> <p>Fundamental knowledge about the economy of districts, regions, subregions, federal districts, administrative entities in order to be able to reliably state their economic and geographical characteristics; about the territorial structure of the economy of districts, regions, subregions, federal districts and individual administrative entities.</p> <p>He is able to use knowledge in educational and professional activities, apply methods of mathematical information processing, theoretical and experimental research. I am ready to use the basic methods, methods and means of obtaining, storing, processing information, I am ready to work with a computer as a means of information management, I am ready to apply modern methods and technologies, methods of diagnosing students' achievements to ensure the quality of the educational process.</p>
		Political and social geography of Kazakhstan	6th semester	<p>To know: - the categorical apparatus and methodology of the political and social geography of Kazakhstan, knowledge of the main characteristics of the political party of Kazakhstan, the ability to navigate on the map.</p> <p>Be able to: - determine the specifics and place of the geographical factor in the socio-political theories and teachings of the past centuries and the present, as well as the degree of its influence / impact on the modern political and social geography of Kazakhstan</p> <p>Have skills:</p> <p>- tools for analysis and forecasting in the field of political and social geography of Kazakhstan, and to analyze emerging geopolitical situations and problems, formulate and logically justify their opinions about certain political and geopolitical conflicts and disagreements</p>
7.	Special	Physical geography of continents and oceans	7th semester	<p>To know:</p> <p>- patterns of spatial differentiation of the geographical envelope, the factors that determine it, the results of the action and interaction of these factors; - natural-territorial and aquatic complexes of the highest ranks as integral parts of the geographical shell, possessing internal unity, a certain degree of uniformity and specific features of nature.</p>

				<p>Be able to: to use applied aspects of geographical sciences; to use Internet resources, to conduct analytical work with literary, cartographic sources; to develop skills in producing graphic works, performing practical tasks.</p> <p>Have skills: - conceptual and categorical apparatus of geographical sciences; - knowledge of global and regional patterns of formation, development and differentiation of natural and natural-anthropogenic geosystems; - a system of knowledge about the diversity and preservation of the stability of the geographical envelope;</p>
		Recreational geography	7th semester	<p>To know: the place of recreational geography in solving problems of interaction between society and nature; principles and methods of applied areas of geography; patterns of transformation of natural geosystems under the influence of human economic activity; features of geotechnical systems for various purposes</p> <p>Be able to: to use geographical knowledge to solve practical problems; to assess the consequences of the impact of human economic activity on the environment; to assess the natural resource potential of the territory; to navigate in the current state, problems and prospects of one of the most important areas of science and design that have been developed in recent decades. to represent the importance of district planning for solving problems related to the analysis of spatial features and strategic aspects of the development of settlement in the country as the basis of territorial and urban planning policy.</p> <p>Possess skills: theoretical knowledge of recreational geography, its place in environmental management, its goals, objectives, functions and methods of implementation</p>
8.	Special	Political, economic and social geography of the world	7th semester	<p>To know: - scientific methods of accounting for natural resources in solving national economic problems in their global and territorial aspect; - on the influence of differences in the natural environment on differences in the production direction of the economy from place to place within a certain social organization.</p> <p>Be able to: - - to give an economic assessment of the most important element of the</p>

9.	Special			<p>geographical environment that play an extremely important role in modern production: the resources of the Earth's crust (minerals), climate, hydrosphere (World Ocean), the organic world of the land (soils, flora and fauna).</p> <p>Have the skills to:</p> <p>solve problems in the socio-economic, political, legal spheres, use means and systems of control and management of the state of the world economy; - coordination of economic activities; - legislative and regulatory framework in the field of economics and geopolitics; - scientific and technological progress.</p>
		Geoeconomics	7th semester	<p>To know:</p> <p>The main stages and patterns of the historical development of society, the basics of economic knowledge, methods of solving professional problems, statistics of socio-economic processes and phenomena</p> <p>Be able to:</p> <p>Work in a team, tolerantly perceiving social, ethnic, confessional and cultural differences, collect, analyze and process data, use domestic and foreign sources of information</p> <p>Have the skills of:</p> <p>Self-organization and self-education, collection of source data, analysis and interpretation of statistical data</p>
		Geography of the world economy	8th semester	<p>To know:</p> <p>Trends in the structure of the world economy; the main forms of international economic relations; features of the sectoral structure of the world economy</p> <p>Be able to:</p> <p>characterize the historical, socio-economic prerequisites for the development of the world economy; identify and analyze the relationship between nature and human economic activity;</p> <p>Possess the skills of:</p> <p>Research work and scientific creativity; work with various sources of information</p>
		Regional geography	8th semester	<p>To know: the</p> <p>essence of regional management, the structure and functioning of regional management systems, the main approaches to the formation and implementation of regional policy in Russia and foreign countries - to have theoretical knowledge about the territorial differentiation of natural resource, socio-demographic, economic phenomena and</p>

				<p>processes on the territory of Russia. to be guided by the key problems of the development of the country's productive forces in the conditions of transition to market relations.</p> <p>Be able to: to formulate the goals of regional management; to set the tasks of regional management; to analyze the effectiveness of regional management; as well as to orient oneself in modern approaches and methods of studying regional politics and geopolitics.</p> <p>Possess the following skills: basic economic and geographical, mathematical methods and techniques, practical skills in solving applied and research problems in the field of economic and social geography. apply the acquired knowledge and skills in professional activities</p>
10.	Special	Urban ecology	5th semester	<p>To know: - theoretical foundations of urban ecology– - industry specifics of urban ecological research; - features of environmental management in urban systems.</p> <p>Be able to: - use the skills of working with information from various sources to solve professional and social problems– - organize educational and research activities in the field of assessing the quality of the urban environment.</p> <p>Have skills: – the main methods and means of obtaining and storing information; - innovations in creating computer databases and presentations; - principles of creating an optimal living environment in residential premises.</p>
		Geoeological monitoring	5th semester	<p>To know: - fundamentals of the organization, structure and purpose of environmental monitoring; - criteria for assessing the state of the environment and priority controlled parameters; - approaches and means of implementation of geoecological monitoring; - methods of observation and ground support in monitoring; - fundamentals of control and feedback management in geoecological monitoring; - methods of analysis of geoecological problems associated with changes in the state of the environment as a result of human economic activity.</p> <p>Be able to: - to be able to set goals and formulate tasks related to the implementation of</p>

				<p>professional functions, to find solutions to typical management tasks in a particular organization - to describe the multifactorial impact of the external environment on the definition of the goals and strategies of the organization, to know the basics of the development and implementation of the strategy of the organization.</p> <p>Possess skills:</p> <p>In accordance with the requirements of the State Higher Educational Institution, a specialist must possess: a system of knowledge about modern problems of regional geoecology; be able to apply the knowledge gained in their work; develop skills to work with literature, including electronic information sources; be able to conduct scientific and dedicatory work with children and youth in school and extracurricular educational institutions; be able to characterize the composition, structure and functions of geoecosystems, draw up diagrams of food chains and networks.</p>
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Table 2. The sequence of mastering the general basic disciplines of social and professional interaction

№	Course	Providing disciplines	Competencies	Expected results in the discipline
General education disciplines				
Required component				
1	1	Modern history of Kazakhstan	OK 1- General education core competencies	<p>--demonstrate knowledge of the main periods of the formation of the historical past of independent Kazakhstan statehood;</p> <p>-to correlate the phenomena and events of the historical past with the general paradigm of the world-historical development of human society through critical analysis;</p> <p>- to master the techniques of historical description and analysis of the causes and consequences of events in the modern history of Kazakhstan; -to propose possible solutions to modern problems based on the analysis of the historical past and reasoned information;</p> <p>analyze the features and significance of the modern Kazakh development model;</p> <p>- to determine the practical potential of international dialogue and respect for the spiritual heritage;</p> <p>-to substantiate the fundamental role of historical knowledge in the formation of Kazakhstan's identity and patriotism;</p>

				- to form their own civil position on the priorities of mutual understanding, tolerance and democratic values of modern society.
2	1	Foreign language	OK 1- General educational competencies	<p>According to the results of the development of the program, the student has the following learning outcomes:</p> <ul style="list-style-type: none"> - systematizes the conceptual foundations of understanding the communicative intentions of the partner, the authors of texts at this level; - compares and selects forms and types of speech/communication corresponding to the communicative intention with a logical construction adequate to the type of speech; - adequately expresses his own communicative intentions with the correct selection and appropriate use of appropriate language tools, taking into account their compliance with the socio-cultural norms of the language being studied; - classifies the levels of use of real facts, references to authoritative opinion; speech behavior is communicatively and cognitively justified; - identifies patterns of development of a foreign language, paying attention to the study of stylistic originality; - knows the techniques of linguistic description and analysis of the causes and consequences of events in texts of a scientific and social nature; - expresses in a foreign language possible solutions to modern problems based on the use of reasoned information; - evidently uses language material with reasoned language means sufficient for this level, corrects mistakes in a timely manner and independently with 75% of error-free statements ; - knows the strategy and tactics of constructing a communicative act, correctly forms speech intonation, relying on lexical sufficiency within the framework of speech topics and grammatical correctness.
3	1	Kazakh (Russian) language	OK 1- General educational competencies	<p>- According to the results of mastering the program, the student has the following learning outcomes: students should know: the main functions of the language, functional and semantic types of speech and their features, functional speech styles, communicative tasks of the text, techniques of text compression, techniques of annotating, taking notes and reviewing the text. Students should be able to: understand information on topics of personal, public, educational and professional spheres of life, note the highlighted provisions in the argumentation in general, understand the implied and openly stated provisions in texts and direct messages; use the language correctly and effectively in a</p>

				conversation on personal and professional topics, noting the connection of the theses being expressed, clearly express their position through appropriate explanations; argue, evaluate the information received, speak on professional topics, solve typical and professional tasks in order to master professional and communicative skills, information, compression of a scientific text.
4	1	Information and communication technologies (in English.language)	OK 1- General educational competencies	<p>To know:</p> <ul style="list-style-type: none"> - what economic and political factors contributed to the development of information and communication technologies; - features of various operating systems, architecture; <p>Be able to:</p> <ul style="list-style-type: none"> - identify the main trends in the field of information and communication technologies; - use information resources to search and store information; - work with spreadsheets, perform data consolidation, build graphs; - apply methods and means of information protection; design and create simple websites; - to process vector and raster images; to create multimedia presentations; to use various platforms for communication; - calculate and evaluate performance indicators of supercomputers; - use various forms of e-learning to expand professional knowledge; - use various cloud services. <p>Possess skills:</p> <ul style="list-style-type: none"> - development of the database structure; - designing and creating presentations; - receiving data from the server; - creating video files; - work with Smart applications; - work with services on the e-government website.
5	1	Physical Culture	OK 1- General educational competencies	<ul style="list-style-type: none"> - to characterize the substantial foundations of a healthy lifestyle, - to reveal its relationship with health, harmonious physical development and physical fitness, the formation of personality traits and the prevention of bad habits; - to reveal the basic concepts and terms of physical culture, - apply them in the process of joint physical exercises with their peers, - to explain with their help the features of the technique of motor actions and physical exercises, the development of physical qualities;

Socio-political knowledge module				
6	1	Sociology	OK 1- General education core competencies	<p>According to the results of the development of the program, the student has the following learning outcomes:</p> <ul style="list-style-type: none"> -to master the fundamental knowledge of sociology; -a range of theoretical achievements in the field of sociology. <p>Master skills and abilities</p> <ul style="list-style-type: none"> - independently work with literature of a general humanitarian nature, be able to find nodal ideological problems and their solutions; - to think logically, systematically and critically; - use the acquired baggage of sociological erudition to formulate and prove their own judgments on various issues of everyday life.
	1	Cultural studies		<p>According to the results of the development of the program, the student has the following learning outcomes:</p> <ul style="list-style-type: none"> - must study and understand the essence and role of culture in the life of society, its structure and functions, its typologization, differentiation into branches, types and forms, the human-making purpose of culture; - be able to analyze theoretical systems, concepts and categories that make it possible to form a holistic picture of the formation and development of culture, and formulate rules of description that reflect the specifics of the deployment of socio-cultural processes; - must analyze and carry out an adequate assessment of the impact of the integral phenomenon of culture, its various types, branches, types and forms on the formation of social and spiritual qualities of the individual, social community, society as a whole; - must be able to explain the features of cultural complexes, phenomena and events, the mechanisms of functioning of cultural agents and institutions, their socializing effect on the formation of personality based on scientific understanding of the revealed facts, trends and patterns of development of socio-cultural processes
	1	Political Science		<p>As a result of studying the discipline, students should</p> <p>To know:</p> <ul style="list-style-type: none"> - the main stages of the development of political knowledge in the history of civilization; - schools and directions of modern political science; - political life of society; - the political system and its institutions; - the essence of political processes in the country and the world.

			<p>Master skills and abilities:</p> <ul style="list-style-type: none"> - to use scientific methods of cognition, which contributes to the formation of a scientific worldview; - to show the place of political science in the system of social sciences and humanities; - independently analyze, think critically and politically; - develop your intelligence and broaden your horizons; - develop their civic position and bear social responsibility to society.
	1	Psychology	<p>To know:</p> <ul style="list-style-type: none"> - the meaning and place of psychology in the system of sciences; - the main directions of personality development in modern psychology; - personal values and meanings in professional self-determination; - interrelation and mutual influence of the psyche and body; - techniques and techniques of effective communication. <p>Be able to:</p> <ul style="list-style-type: none"> - to study the psychological characteristics of students and classroom groups to solve professional problems; - take into account the individual psychological characteristics of the individual when designing the educational process; - identify patterns of behavior in a conflict situation and conduct self-diagnosis of the prevailing type of behavior in a conflict situation; - develop psychological recommendations for the development of tolerant behavior. <p>Have skills:</p> <ul style="list-style-type: none"> - personal self-regulation skills (stress management); - skills of prevention of emotional burnout in professional activity; - psychological impact recognition skills; - effective communication skills."
	2	Philosophy	<p>According to the results of mastering the discipline "Philosophy", the student has the following learning outcomes:</p> <ol style="list-style-type: none"> 1) describe the main content of ontology and metaphysics in the context of the historical development of philosophy; 2) explain the specifics of philosophical understanding of reality; 3) to substantiate the worldview as a product of philosophical understanding and study of the natural and social world;

				4) classify the methods of scientific and philosophical knowledge of the world;
General education disciplines				
Component set by the university				
7	1	Fundamentals of market economy and entrepreneurship	OPK 2 - General professional competencies Labor function - Labor function - 2: Educating 1: Training Labor function - 3: Social and communicative	To know: the functions of money, the reasons for differences in the level of wages; 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 entrepreneurial activity; the specifics of entrepreneurial activity; Be able to: give examples of factors of production and factor incomes, public goods, Kazakhstani enterprises of various organizational forms, global economic problems; describe the operation 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 doing business; Possess the skills of: obtaining and evaluating economic information; drawing up a family budget; evaluating one's own economic actions as a consumer, family member and citizen.

	1	Fundamentals of law and anti-corruption culture		<p>Know: the main provisions of the Constitution of the Republic of Kazakhstan;</p> <ul style="list-style-type: none"> - the main provisions of the current legislation of the Republic of Kazakhstan; -the system of public administration bodies and the scope of their powers, - goals and methods of state regulation of the economy, the role of the public sector in the economy; - financial law and finance; -the mechanism of interaction of substantive and procedural law; - the essence of corruption and the reasons for its origin; - a measure of moral and legal responsibility for corruption offenses; -current legislation in the field of anti-corruption. <p>Be able to:</p> <ul style="list-style-type: none"> - analyze events and actions from the point of view of the field of legal regulation and be able to refer to the necessary regulations; - navigate the current legislation; - using the law to protect their rights and interests; - to be guided by the issues of the current legislation; - apply the norms of civil law in specific situations; - to realize the values of moral consciousness and follow moral norms in everyday practice; -work on improving the level of moral and legal culture; - to use spiritual and moral mechanisms to prevent corruption; <p>Have skills:</p> <ul style="list-style-type: none"> - conducting discussions on legal issues, on the application of norms in the modern period; -legal analysis of various documents; -analysis of the situation of conflict of interests and moral choice; - improving the anti-corruption culture; - actions in a conflict of interest situation.
Basic disciplines				
University component				
1	1	Age physiology and school hygiene	ОПК 2 – Обще- профессиональные компетенции Трудовая функция	<ul style="list-style-type: none"> - list and characterize the main theories, methods and technologies of educational work with students; - classify the theoretical foundations of the types of pedagogical activity; - apply the acquired theoretical knowledge in the practice of a teacher; analyze and

			- 1: Обучающая; Трудовая функция - 2: Воспитывающая	systematize information on the organization of the pedagogical process; - to determine the main aspects of pedagogical activity; to focus on the content, main categories, concepts of the course of pedagogy; - to assess the modern concept of education in the Republic of Kazakhstan and the educational systems of the school and classroom.
2	1	Pedagogy	OPK 2 - General professional competencies Labor function - 1: Training; Labor function - 2: Educating	to know: - about the role of science and education in public life; - about current trends in the global educational space; - about the professional competence of a teacher of 12-year secondary education; - about the social purpose and role of a teacher in modern society; - about the social meaning and content of their future specialty; - about the object of the future teacher's activity; - about the factors of continuous professional and personal formation of a teacher; - about the education system of the Republic of Kazakhstan; - theoretical and methodological foundations of pedagogy and the history of its development, the world pedagogical heritage; - theory and practice of the holistic pedagogical process; - technology for the implementation of the pedagogical process; be able to: - to carry out pedagogical communication and interaction in the pedagogical process; - to design and carry out educational work in accordance with the laws, educational mechanisms of the pedagogical process; - to diagnose the educational process in the classroom according to the main characteristics (variables) and predict its further development; - formulate educational tasks, choose activities, forms and methods adequate to these tasks; - develop their own approaches to the process of education and upbringing, comprehend the trends in the development of educational systems at different stages of history; Have skills: - research activities; - pedagogical communication and pedagogical techniques; - organization of subject-subject interaction of all participants of the pedagogical process; - the use of pedagogical technologies in the educational process;

				- application of the acquired knowledge during the period of professional practice, and t
3	1	Psychology and human development	OPK 2 - General professional competencies Labor function - 1: Training; Labor function - 2: Educating	To know - the history of the development of the subject of psychology and the development of man and Soviet and foreign psychology; - characteristics of psychology and human development as a science, its methods and tasks; dynamics of development and structure of personality and human activity; - To have an idea of the psychological characteristics of a person's personality in ontogenesis and phylogeny. - an idea of the psychological features of a person's personality in ontogenesis and phylogeny: Be able to: - use the acquired knowledge in practice; - to create a methodological basis for monitoring the progress, completeness of the content and conditions of the child's mental development.
4	2	Education Management	OPK 2 - General professional competencies Labor function - 1: Training; Labor function - 2: Educating	To know: - theoretical and methodological foundations of management in education: functions, patterns, principles, methods of pedagogical management, system-forming factors of pedagogical management, the history of the development of management concepts in education: features of school management based on systematic, humane, competence and technological approaches: - fundamentals of the management of the holistic pedagogical process of the school; -conditions for effective management of the teaching staff of the school Be able to: - apply the acquired theoretical knowledge in the practice of managing an educational institution; - to carry out diagnostic, analytical and design activities within the framework of a unified management system of an educational institution; - design and implement various types of management activities; - to use the skills of systematic, humane, human-centered, competence-based and technological approaches to the management of an educational institution; - to evaluate the quality of management activities from the standpoint of the holistic pedagogical process of the school as an open pedagogical system;

				<p>- to be involved in the methodological work of an educational institution, to analyze and evaluate the effectiveness of the educational process using modern methods of assessing the quality of education, upbringing and development of students, to apply methods of work to overcome the limitations of pedagogical management.</p> <p>Possess skills: theoretical knowledge on the basics of pedagogical management in accordance with modern requirements; - the skills of designing and analyzing the management of the holistic pedagogical process of the school. - research skills; - pedagogical communication skills; - skills of organizing subject-subject interaction of all participants in the pedagogical process; - the skills of applying the acquired knowledge during the period of professional practice, as well as in solving professional tasks; be flexible and mobile in various conditions and situations related to the activities of the management of the CPP.</p>
5	2	Theory and methodology of educational work	<p>OPK 2 - General professional competencies Labor function 1: Training; Labor function 2: Educating</p>	<p>To know: about the forms and methods of pedagogical interaction and cooperation of the subjects of the educational process-teachers, students, parents; - about the patterns of development and methods of forming a children's team; - about the forms, methods, means and techniques of educational work in various directions, - about modern technologies of education; - on the diagnosis of the results of educational work.</p> <p>Be able to: - to model, plan and carry out educational work in the classroom, school with a focus on the formation of a citizen of Kazakhstan on the basis of universal and national values; - choose the types of education taking into account its goals and objectives, as well as the age and individual characteristics of the pupils; - variatively apply methods and techniques of education, select and use means, organizational forms of education; - to carry out pedagogical guidance and management of the process of forming a class team and organizing its activities;</p>

				<ul style="list-style-type: none"> - organize class hours, CTD and educational events of various directions; - to choose and use innovative technologies of education, including technologies of re-education of difficult children; - choose forms of effective cooperation with parents; - organize work with gifted children; - plan, organize and conduct career guidance work in the classroom and school; - to study the effectiveness of the educational process and methodically ensure it. <p>Possess navics:</p> <ul style="list-style-type: none"> - theoretical knowledge on the basics of pedagogical management in accordance with modern requirements; -the skills of designing and analyzing the management of the holistic pedagogical process of the school; - research skills; - pedagogical communication skills; - skills of organizing subject-subject interaction of all participants in the pedagogical process;
6	2	Inclusive education	ОПК 2 – Обще- про- фессиональные компетенции Трудовая функция - 1: Обучающая; Трудовая функция - 2: Воспитывающая	<p>To know:</p> <ul style="list-style-type: none"> - The Law of the Republic of Kazakhstan "On social and medical-pedagogical correctional support for children with disabilities"; other international and republican legal and by-laws regulating the activities of general education organizations operating in inclusive education; - the essence, content, structure of educational processes and systems, pedagogical technologies and innovative processes in the field of inclusive education; - the main directions and prospects for the development of inclusive education and pedagogical science; - the essence and specifics of the professional activity of teachers of general education organizations and teachers-defectologists in the process of inclusive education; - concepts of psychological and pedagogical assistance and systems of correctional and pedagogical influence. <p>be able to:</p> <ul style="list-style-type: none"> - to find, analyze and systematize information on the organization of inclusive education; - to use in professional activity the main international and domestic documents on the rights of the child and the rights of persons with disabilities to receive a quality education;

				<ul style="list-style-type: none"> - design work to inform the public about the problems of education of persons with disabilities; - to design the directions of correctional and pedagogical influence in the conditions of inclusive education, depending on the type of impaired development, the needs of the child, learning conditions, resources of the locality; - to organize and provide optimal socio-environmental and educational (professional) conditions for children with disabilities in general education organizations.
7	3	Professional Kazakh (Russian) language	ОПК 2 - General professional competencies Labor function - 1: Training; Labor function - 2: Educating	<ul style="list-style-type: none"> - владеть государственным, русским и иностранным языками; - способность грамотно изъясняться на государственном, русском и иностранном языках; - составлять грамотно текущую документацию на государственном, русском и иностранном языках; - применять основные конструктивные диалоги, общения в поликультурном
8	3	Professionally-oriented foreign language	ОПК 2 - General professional competencies Labor function - 1: Training; Labor function - 2: Educating	<ul style="list-style-type: none"> -speak the state, Russian and foreign languages; -ability to speak correctly in the state, Russian and foreign languages; -to make up current documentation competently in the state, Russian and foreign languages; -apply basic constructive dialogues, communication in a multicultural

3. Перечень модулей для образовательной программы 6B01505 – «География»

Module name	Name of the discipline	Block	Se mestre	The amount of credits for the discipline	Form of control	All credits by module
M. 1 Modern history and modern political process in Kazakhstan	Modern history of Kazakhstan	OOD\O K	1	5	State exam	5
M.2 Fundamentals of bilinguistic training and foreign language	Kazakh (Russian) language	OOD\O K	1,2	5,5 5,5	exam	10
	Foreign language	OOD\O K	1,2	5,5 5,5	exam	10
M.3 Functional literacy	Information and communication technologies (in English.language)	OOD\O K	2	5	exam	5
M.4 Module of socio-political knowledge	Sociology	OOD\O K	1,2	2	exam	13
	Cultural studies	OOD\O K	1,2	2	exam	
	Political Science	OOD\O K	1,2	2	exam	
	Psychology	OOD\O	1,2	2	exam	

		K				
	Philosophy	OOD\O K	3	5	exam	
M.5 Physical culture	Physical Culture	DVO	1-4	8	YT	8
M.6 Module of economic and legal knowledge	Fundamentals of market economy and entrepreneurship	OOD\A TC	2	3	Exam	5
	Fundamentals of law and anti-corruption culture			2	Exam	
M.7 Psychological aspects of development in an age-related personality	Psychology and human development	DB\VK	1	4	Exam	7
	Age physiology and school hygiene	DB\VK	2	3	Exam	
M.8 Pedagogical foundations of professional activity	Pedagogy	DB\VK	1	5	Exam	10
	Educational practice (introductory)	DB\VK	2	2	Report	
	Theory and methodology of educational work	DB\VK	3	3	Exam	
M.9 Fundamentals of education	Education Management	DB\VK	3	3	Exam	19
	Inclusive education	DB\VK	4	3	Exam	

	Psychological and pedagogical practice	DB\VK	3	2	Report	
	Учебно- воспитательная педагогическая практика	DB\VK	5	6	Report	
	Methods of teaching geography	PD\KV	5	5	Exam	
M.10 Professional languages	Professional Kazakh (Russian) language	DB\VK	5	3	Exam	6
	Professionally-oriented foreign language	DB\VK	6	3	Exam	
M.11 Meteorology and its interaction with general hydrology	Meteorology with the basics of climatology \Biogeography	DB\KV	3	5	Exam	12
	General hydrology\Modern problems of physical geography	DB\KV	3	5	Exam	
	Educational practice (physical and geographical)	DB\KV	4	2	Report	
M.12 Geology with the basics of paleogeography	Geology\ Paleogeography	DB\KV	4	5	Exam	15

	Geomorphology\ Environmental protection	DB\KV	5	5	Exam	
	General Earth science	PD\KV	3	5	Exam	
M.13 World Map	Cartography with the basics of topography \ History of cartography	DB\KV	4	3	Exam	13
	Geography of the population\ Regional geography	DB\KV	4	5	Exam	
	Political map of the world\Geopolitics	DB\VK	4	5	Exam	
M.14 Physical geography of continents and oceansM.14 Physical geography of continents and oceans	Physical geography of Kazakhstan \ Physical geography of the CIS	DB\KV	5	5	Exam	25
	Natural science	PD\KV	4	5	Exam	
	Landscape science \Geophysics of landscapes	PD\KV	4	5	Exam	
	Physical geography of East Kazakhstan \ Geography nature management	PD\KV	6	5	Exam	
	Physical geography of continents and oceans \Recreational geography	PD\KV	7	5	Exam	
M. 15 Global geography	Global geography and	PD\KV	6	5	Exam	9

and geoecology	fundamentals of environmental management\ Technical and economic fundamentals of production					
	Geoecology and nature conservation\ History of nature research in Kazakhstan	PD\KV	6	4	Exam	
M.16 Geo-economic analysis and tourism	Economic and social geography of Kazakhstan\ Economic and social geography of the CIS	DB\ KV	6	5	Exam	27
	Economic and social geography of East Kazakhstan \ Political and social geography of Kazakhstan	PD\KV	6	5	Exam	
	Political, economic and social geography of the world\ Geoeconomics	PD\KV	7	5	Exam	
	Geography of the world economy \regional geography	PD\KV	8	5	Exam	
	Educational (economic and geographical) practice	DB\ KV	6	2	Report	

	Geography of tourism \ State regulation of tourism development	DB\ KV	7	5	Exam	
M.17 Modern problems of landscape studies	Anthropogenic landscape studies\ Modern problems of climate change	DB\ KV	7	4	Exam	9
	Urban ecology \Geoecological monitoring	PD/VK	8	5	Exam	
M.18 Innovative technologies in teaching geography	Innovative technologies in geography teaching \ Methods of calculation and design in geography	DB\KV	7	5	Exam	10
	Updated content of education and the system of criteria assessment\ New pedagogical technologies in teaching geography in the profile class	DB\KV	7	5	Exam	
M.19 Final production practice	Industrial and pedagogical practice	PD/VK	8	10	Report	10
M.20 Final state certification	Writing and defending a thesis (project) or preparing and passing a comprehensive exam	DVO	8	12	DR/ CE	12

