

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



«APPROVED»

Chairman of the Board-Rector

D.Zh. Ahmed-Zaki











2025

EDUCATION PROGRAMME

6B01560- Geography

Registration number	6B01500316
Code and classification of the field of Education	6B01-Pedagogical science
Code and Classification of Areas of Training	6B015-Training of teachers in natural science subjects
Group of educational programs (EP)	B014
Type of EP	existing
ISCE level	6
NQF level	6
IQF level	6
Language learning	Kazakh, Russian
The complexity of EP	240 credits
Distinctive features of EP	
Partner University (JEP) -	
University partner (DDEP) -	-

Developers:

Full Name	Position	Signature
Isaev Y. B.	Head of the chair, c.b.s, associate professor	
Tasbolat B.	Doctor of Geographical Sciences, Associate Professor	
Dairabayeva A.Zh.	Master of Geography, senior lecturer	
Bahbai D	student of the EP-21-21k group	
Saykhanova S.	student of the EP-21-21k group	
Sikhimbayev A.E.	Director of the NGO " BIOS"	
Bimuratova A.A.	Director of secondary school No. 66 named after N.Torekulov	
Nysanbayeva Zh.T.	Director of the IT school-Lyceum No. 24 named after S.Yerubayev	
Zharassova K.S.	Director of secondary school No. 131	
Almahankyzy R.A.	Director of IT Lyceum No. 7 named after K.Spataev	

The OP was considered at a meeting of the Academic Quality Committee of the «Natural Sciences and Pedagogy» Higher School,

Minutes # 6 « 17 » 03 2025 y.

Chairman of the Committee  A.Z. Tursynbaev

The EP was considered and recommended for approval at Educational-methodical meeting of M. Auezov SKU

Minutes # 4 « 17 » 03 2025 y.

Chairman of the EMM  E. Imangaliyev

The EP was approved by the decision of the Academic Council of the University

Minutes # 10 « 27 » 03 2025 y.

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1. CONCEPT OF THE PROGRAM

University Mission	Generation of new competencies, preparation of a leader who translates research thinking and culture
University Values	<ul style="list-style-type: none"> • Openness– to change, innovation and cooperation. • Creativity – generates ideas, develops them and turns them into values. • Academic freedom – free to choose, develop and act. • Partnership – creates trust and support in a relationship where everyone wins. • Social responsibility – ready to fulfill obligations, make decisions and be responsible for their results.
Graduate Model	<ul style="list-style-type: none"> • Deep subject knowledge, their application and continuous expansion in professional activity. • Information and digital literacy and mobility in rapidly changing conditions. • Research skills, creativity and emotional intelligence. • Entrepreneurship, independence and responsibility for their activities and well-being. • Global and national citizenship, tolerance to cultures and languages.
The uniqueness of the educational program	<ul style="list-style-type: none"> • Orientation to the regional labor market and social order through the formation of professional competencies of the graduate, adjusted to the requirements of stakeholders • Practical orientation and emphasis on the development of critical thinking and entrepreneurship, the formation of a wide range of skills that will allow to be functionally literate and competitive in any life situation and be in demand in the labor market
Academic Integrity and Ethics Policy	<p>The university has taken measures to maintain academic integrity and academic freedom, protection from any type of intolerance and discrimination:</p> <ul style="list-style-type: none"> • Rules of academic integrity (order No. 212 of October 10, 2022); • Anti-corruption standard (order No. 221 n/a dated 12/07/2021). • Code of Ethics (Order No. 212 of October 10, 2022)
Regulatory and legal framework for the development of EP	<ol style="list-style-type: none"> 1. Law of the Republic of Kazakhstan “On Education”; 2. Model rules for the activities of educational organizations implementing educational programs of higher and (or) postgraduate education, approved by order of the Ministry of Education and Science of the Republic of Kazakhstan dated October 30, 2018 No. 595 with amendments and additions dated December 29, 2021. No. 614 3. Standard rules for admission to training in educational organizations implementing educational programs of higher and postgraduate education, approved by order of the Ministry of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600 with amendments and additions dated 06/02/2023. No. 252 4. State mandatory standards for higher and postgraduate education, approved by order of the Ministry of Education and Science of July 20, 2022 No. 2; 5. Rules for organizing the educational process in credit technology of education, approved by order of the Ministry of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152; with changes and additions from 09/23/2022. No. 79 6. Qualification reference book for positions of managers, specialists and other employees, approved by order of the Minister of Labor and Social Protection of the Population of the Republic of Kazakhstan dated December 30, 2020 No. 553. 7. Methodological recommendations for introducing ECTS principles into the educational process and expanding academic freedom. Appendix to the order

	<p>of the Minister of Science and Higher Education. of the Republic of Kazakhstan dated February 12, 2024 No. 57</p> <p>8. Guidelines for the development of educational programs for higher and postgraduate education, Appendix 1 to the order of the Director of the National Center for the Development of Higher Education of the Ministry of Education and Science of the Republic of Kazakhstan dated May 4, 2023 No. 601 n/k</p>
Organization of the educational process	<ul style="list-style-type: none"> • Implementation of the principles of the Bologna Process • Student-centered learning • Availability • Inclusivity
Quality assurance of the Educational program	<ul style="list-style-type: none"> • Internal quality assurance system • Involvement of stakeholders in the development of the Educational Program and its evaluation • Systematic monitoring • Actualization of the content (updating)
Requirements for applicants	<p>They are established in accordance with the Standard Rules for admission to training in educational organizations implementing educational programs of higher and postgraduate education by order of the Ministry of Education and Science of the Republic of Kazakhstan No. 600 dated October 31, 2018, with changes and additions dated June 2, 2023. No. 252</p>
Conditions for the implementation of educational programs (EP) for persons with disabilities and special educational needs(SSN)	<p>For students with SEN (special educational needs) and persons with disabilities (PSI), tactile PVC tiles, specially equipped toilets, a mnemonic diagram, and shower bars have been installed in educational buildings and student dormitories. Special parking spaces have been created. Crawler lift installed. There are desks for people with limited mobility (PLM), signs indicating the direction of movement, ramps. In the educational buildings (main building, building No. 8) there are 2 rooms with six working places adapted for users with disorders of the musculoskeletal system (DMS).For visually impaired users, the SARA™ CE Machine (2 pcs.) is available for scanning and reading books. The library website is adapted for the visually impaired. There is a special NVDA audio program with a service. The JIC website http://lib.ukgu.kz/ is open 24/7.</p> <p>An individual differentiated approach is provided for all types of classes and in the organization of the educational process.</p>

2. PASSPORT of the Educational program

Purpose of the EP	Preparation of highly qualified teaching staff in the field of geography, capable of forming knowledge, skills, and intellectual, moral, creative and physical development of the student's personality.
Tasks of the EP	<ul style="list-style-type: none"> - formation of socially responsible behavior in society, understanding the importance of professional ethical standards and following these standards; - providing basic undergraduate training to enable them to continue their studies throughout their lives, to adapt successfully to changing conditions throughout their professional careers; - providing conditions for the acquisition of a high general intellectual level of development, mastering competent and developed speech, culture of thinking and skills of scientific organization of work in the field of training future teachers of biology in accordance with the updated content of secondary education; - training of a multilingual biology teacher with knowledge of Kazakh, English and Russian languages and methods of teaching biology in three languages in secondary schools; - creation of conditions for intellectual, physical, spiritual, aesthetic development to ensure the possibility of their employment in the specialty or continuing education at subsequent levels of education; - establishing conditions for the development of in-demand knowledge and skills, as well as a conscious attitude towards enhancing the welfare of society and conserving the planet within the framework of the SDGs.
Harmonization of EP	<ul style="list-style-type: none"> • 6th level of the National Qualifications Framework of the Republic of Kazakhstan; • Dublin descriptors of the 6th level of qualification; • 1 cycle of a Framework for Qualification of the European Higher Education Area); • 6th Level of European Qualification Framework for Life long Learning).
Connection of the EP with the professional sphere	Professional standard "Teacher" (order of the Acting Minister of Education of the Republic of Kazakhstan dated December 15, 2022 No. 500)
Name of the degree awarded	After successful completion of this educational program, the graduate is awarded the degree: "Bachelor <u>6B01560-Geography</u> "
List of qualifications and positions	Geography teacher in various educational institutions, educational institutions without presenting requirements for work experience in accordance with the qualification requirements of the Qualification Directory for the positions of managers, specialists and other employees, approved by order of the Minister of Labor and Social Protection of the Republic of Kazakhstan No. 553 dated 12/30/2020.
Field of professional activity	The sphere of professional activity is the field of education and science.
Objects of professional activity	educational activities
Subjects of professional activity	educational organizations (general education and specialized schools, ungraded schools, lyceums, gymnasiums)
Types of professional activity	pedagogical activity
Learning outcomes	LO1- Communicate freely in a professional environment and society in Kazakh, Russian and English, using the methods of scientific research, academic writing, taking into account the principles and culture of academic

	<p>honesty;</p> <p>LO2 - Demonstrate natural science, social, socio-cultural, professional development based on the formation of worldview, civil, spiritual and social responsibility, methods of scientific and experimental research;</p> <p>LO3 - Possess information and computational literacy, the ability to generalize, analyze and perceive information, set a goal and choose ways to achieve it;</p> <p>LO4 - Manage the behavior of students, motivating their educational and cognitive activities, based on the methodology of educational work and modern concepts of education; promote the formation of a healthy and safe lifestyle among students;</p> <p>LO5 - Take into account the characteristics and needs of students when planning and conducting a lesson, using modern technologies and teaching methods, tools for assessing learning achievements;</p> <p>LO6 - Organize the educational process, taking into account the laws of psychological and physiological characteristics of students, including those with special needs and their manifestations, in different age periods;</p> <p>LO7 - Explain the essence of physical and socio-economic phenomena and processes, laws and patterns based on the use of hydrological, meteorological, geodetic instruments, solving cartometric, geological, climatic, hydrological and economic-geographical problems;</p> <p>LO8 - Master the basics of geographical education in a global context, the content of geographical materials and their application in pedagogical activity.</p> <p>LO9 - Analyze the basics of physical and socio-economic, political geography, tourism, local history and geocology, master the skills of working with geographic information systems and cartographic materials.</p> <p>LO10 - Use physical-geographical and economic-geographical methods for conducting research in the educational process and apply field, geoinformation, statistical methods to solve practical problems.</p> <p>LO11 - Work effectively both individually and as a team member, build a personal educational trajectory throughout life for self-development and career growth, focus on a healthy lifestyle.</p> <p>LO12 - Use research, entrepreneurial and uncertainty skills.</p>
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3. COMPETENCES OF THE GRADUATE OF EP

SOFT SKILLS. Behavioral skills and personality qualities	
SS1. Competence in managing one's own literacy	<p>SS1.1. The ability to self-learn, self-develop and constantly update their knowledge within the chosen trajectory and in an interdisciplinary environment.</p> <p>SS1.2. Ability to express thoughts, feelings, facts and opinions in the professional field.</p> <p>SS1.3. The ability to mobility in the modern world and critical thinking.</p>
SS 2. Language competence	<p>SS2.1.The abilitytobuildcommunicationprograms in thestate, Russian and foreignlanguages.</p> <p>SS2.2. The abilityfor interpersonal social and professional communication in theconditionsofinterculturalcommunication.</p>
SS 3. Mathematical Competence and Competence in the field of Science	<p>SS3.1.The ability and willingness to apply then educational potential, experience and personal qualitiesacquiredduringthestudyofmathematical, naturalscience, technicaldisciplines at theuniversitytosolve professional problems.</p>
SS 4.	<p>SS4.1. The ability to demonstrate and develop information literacy through</p>

Digital competence, technological literacy	the mastery and use of modern information and communication technologies in all areas of their lives and professional activities. SS4.2. The ability to use various types of information and communication technologies: Internet resources, cloud and mobile services for searching, storing, protecting and disseminating information.
SS 5. Personal, social and academic competencies	SS5.1. The ability for physical self-improvement and focus on a healthy lifestyle to ensure full-fledged social and professional activities through the methods and means of physical culture. SS5.2. The ability to social and cultural development based on the manifestation of citizenship and morality. SS5.3. The ability to build a personal educational trajectory throughout life for self-development, career growth and professional success. SS5.4. The ability to successfully interact in a variety of socio-cultural contexts during study, work, home and leisure.
SS 6. Entrepreneurial competence	SS6.1. The ability to be creative and entrepreneurial in a variety of environments. SS6.2. The ability to work in a mode of uncertainty and rapidly changing task conditions, make decisions, allocate resources and manage your time. SS6.3. The ability to work with consumer requests.
SS 7. Cultural awareness and ability to express yourself	SS7. - the ability to know and understand the traditions and culture of the peoples of Kazakhstan, is tolerant to the traditions and culture of other peoples of the world, is aware of the installation of tolerant behavior; is not subject to prejudice, has high spiritual qualities, is formed as an intelligent person.
PROFESSIONAL COMPETENCIES (HARD SKILLS).	
Theoretical knowledge and practical skills specific to this field	PC1 - To be able to possess knowledge in the field of pedagogical goal-setting, the skills and abilities to design and implement a holistic pedagogical process, to be capable of positive thinking, attached to the system of national values, committed to ethical values, prone to humanism and optimism;
	PC2 - Demonstrate the fundamental foundations of geographical knowledge in geology, geomorphology, hydrology, meteorology and climatology, natural science, soil science, landscape science, geoecology, population geography, tourism and local history, be able to use geographical information technologies in the field of professional activity;
	PC3 - Own and apply the methods and methods of geographical research for obtaining geographic information and for mapping: modeling, mapping, statistics and zoning of field research and observation;
	PC4 - Have an idea about the regularities of the geographical shell: integrity, circulation of substances, rhythmic phenomena, zonality and azonation, physical-geographical and economic-geographical features of regions, countries, continents and world oceans;
	PC5 - Use geographical and pedagogical methods in professional activities, master the methodology of teaching geography, engage in educational activities among the population in order to increase the level of geographic and environmental literacy of society;
	PC6 - Apply modern experimental methods of work in the research work of students in the field and office conditions; have skills in processing the results of field and experimental studies; be able to organize and conduct extra-curricular forms of work with schoolchildren; to systematize and apply modern technologies and interactive teaching methods;
	PC7 - Be able to work with modern apparatus and equipment to perform research, field and laboratory work, develop and organize research projects with students.

3.1 Matrix of correlation of the results of training in the OP as a whole with the competencies being formed

	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10	LO11	LO12
SS 1	+	+	+								+	
SS 2		+									+	
SS 3		+								+		
SS 4			+									
SS 5	+	+									+	+
SS 6												+
SS 7	+	+										
PC1				+	+	+	+				+	
PC2							+	+	+	+		
PC3								+	+	+		
PC4							+	+	+	+		
PC5				+	+	+	+	+	+	+		
PC6										+	+	
PC7			+	+	+	+	+	+	+	+		

4. MATRIX OF THE INFLUENCE OF DISCIPLINES ON THE FORMATION OF LEARNING OUTCOMES AND INFORMATION ON LABOR INTENSITY

№	The name of the module	CYCLE	UC/CC	Component name	Short description of the discipline	Number of credits	The generated RO (codes)												
							LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10	LO11	LO12	
	Fundamentals of Public Science	GED	CC	History of Kazakhstan	<p>Purpose of the discipline: The formation of an objective idea of the history of Kazakhstan based on a deep understanding and scientific analysis of the main stages, patterns and originality of the historical development of Kazakhstan.</p> <p>Content: Ancient people and the formation of nomadic civilization. Turkic civilization and the great steppe. Kazakh Khanate. Kazakhstan in the era of modern times. Kazakhstan as part of the Soviet administrative-command system. Declaration of Independence of Kazakhstan. State system, socio-political development, foreign policy and international relations of the Republic of Kazakhstan. Methods and techniques of historical description for the analysis of the causes and consequences of events in the history of Kazakhstan.</p>	5		✓											
		GED	CC	Philosophy	<p>Purpose of the discipline: The formation of a holistic idea among students about philosophy as a special form of knowledge of the world, about its main sections, problems and methods of studying them in the context of future professional activity. And also the formation of philosophical reflection, introspection and moral self-regulation among students.</p> <p>Content: Emergence of a culture of thinking. Subject and method of philosophy. Fundamentals of philosophical understanding of the world: questions of consciousness, spirit and language. Being. Ontology and metaphysics. Cognition and creativity. Education, science, technology and</p>	5		✓											

					technology. Human philosophy and the world of values. Ethics. Philosophy of values. The subject of aesthetics as a field of philosophical knowledge. Philosophy of freedom. Philosophy of art. Society and culture. Philosophy of history. Philosophy of religion. "Mangilik El" and "Modernization of Public Consciousness" are a new Kazakhstan philosophy.													
	Socio-Political Knowledges	GED	CC	SociologyandPolitology	<p>Purpose of the discipline:The goal of forming knowledge about social and political activities, explaining social and political processes and phenomena.</p> <p>Content:Consideration of the system of socio-ethical values of the society. Ways to use social, political, cultural, psychological institutions, features of youth policy in the modernization of Kazakhstani society and solve conflict situations in society and professional environment based on them.To study the methods of analysis and interpretation of political institutions and processes, ideas about politics, power, state and civil society, to understand and use the methods and methods of sociological, comparative analysis, to understand the meaning and content of the political situation in the modern world. Analysis and classification of the main political institutions.</p>	4												
		GED	CC	Cultural Studies and Psychology	<p>Purpose of the discipline:The formation of scientific knowledge of history, modern trends, current problems and methods for the development of culture and psychology, the skills of a systematic analysis of psychological phenomena.</p> <p>Contents: Morphology, language, semiotics, anatomy of culture. Culture of nomads, proto-Turks, Turks. Medieval culture of Central Asia. Kazakh culture at the turn of the XVIII - XIX centuries, XX century. Cultural policy of Kazakhstan. State Program "Cultural Heritage". National consciousness, motivation. Emotions, intellect. The will of man, the psychology of self-regulation. Individual typological features. Values, interests, norms are the</p>	4		✓										

					spiritual basis. The meaning of life, professional self-determination, health. Communication of the individual and groups. Socio-psychological conflict. Models of behavior in conflict.														
	Socio-ethnic Development	GED	HsC	Ecosistem and Law	Purpose of the discipline:Formation of integrated knowledge in the field of economics, law, anti-corruption culture, ecology and life safety, entrepreneurship, scientific research methods. Content:Fundamentals of safe human-nature interaction, ecosystem and biosphere productivity. The entrepreneurial activity of society in conditions of limited resources, increasing the competitiveness of business and the national economy. Regulation of relations in the field of ecology and human life safety. Knowledge and compliance of Kazakhstan's law, obligations and guarantees of subjects, state regulation of public relations to ensure social progress. Application of scientific research methods.	5		✓											
		BD	EC	Abai Studies	Purpose of the discipline:based on the creativity of A.Kunanbayev, the preservation of the «national code» and in the project «Kazakhtanu» Content:Historical overview of the history of Kazakhstan and Kazakh literature of the XIX-XX centuries. Studies of Abai's legacy of the XX-XXI century. Chronology of Abai's creativity. Abai is a great poet, ethnographer, founder of Kazakh written literature. Abai is the compiler of the code of laws «The Position of Karamola», social significance. Abai is a thinker, religious scholar, philosopher. The role of Abai in education and science, the concept of a «Holistic person». «Words of Edification»by Abai, an epic novel by M.Aueyzoza«The Way of Abai» . K. Tokayev«Abai and Kazakhstan in the XXI century», role, significance.	3		✓											
		BD	EC	Muhtar Studies	Purpose of the discipline:Formation of a historical, literary idea of M. Auezov's work in the context of literary history, patriotism and cultural and spiritual position. Development of artistic thinking, skills of independent research activity. Content: The life and creative path of M. Auezov Semipalatinsk, Tashkent, St. Petersburg periods. M.			✓											

				Auezov's activity in the magazines «Sholpan», «Abai». M. Auezov's journalism. An artistic review of the short stories "Korgansyzdyn kuni", "Kyr suretteri", "Okagan azamat", "Kokserek", the play Enlik-Kebek and the stories "Kili Zaman", "Karash-Karash" okigasy", the monograph "Abai Kunanbayev", the epic novel "Abai Zholy".														
		BD	EC	Basics of financial literacy	The purpose of the discipline is to study personal and family financial resources, which are critical to achieving financial well-being. Contents of the discipline. Financial planning and consumer safety. Basic methods and techniques for effective spending and saving money. Protecting and investing your own financial resources. The role and significance of personal finance, its capabilities for achieving financial stability. Filtering out a lot of dubious financial information. Incentives for independent management of responsibilities and optimal financial capabilities of the consumer. Making smart financial decisions when building a professional career.			✓										
		BD	EC	Fundamentals of artificial intelligence	Objective: To develop competencies in the use of knowledge and practical application of artificial intelligence tools and methods, in alignment with the priorities of the AI-Sana program. Contents: Introduction to Artificial Intelligence (AI). Development of practical skills and abilities, including: using AI tools; working with large language models (LLMs); utilizing no-code AI platforms; employing generative AI tools; image recognition; natural language processing (NLP); and data visualization through AI. Understanding the application of AI in various fields and exploring its potential through the integration of AI-Sana program approaches			✓										
		BD	EC	Foundations of Anticorruption Culture	Purpose of the discipline: formation of an anti-corruption worldview, strong moral foundations of a personality, civic position, stable skills of anti-corruption			✓										

					behavior. Content: Overcoming legal nihilism, formation of the basics of students' legal culture in the field of anti-corruption legislation. Formation of a conscious perception/attitude towards corruption.Moral rejection of corrupt behaviour, corrupt morality and ethics.Development of skills necessary to fight corruption.Development of anti-corruption standards of conduct.Anticorruption propaganda, dissemination of lawfulness and respect for the law. Activities aimed at understanding the nature of corruption, awareness of social damage caused by its manifestation, ability to defend one's position with arguments, seeking ways to overcome manifestation of corruption.														
Additional modules beyond the qualification framework																			
	Communication and Physical Training	GED	CC	Kazakh (Russian) language	Purpose of the discipline: formation of students' intercultural and communicative competence in the process of foreign language education at a sufficient level A2 and a level of basic sufficiency B1. Student reaches B2level of common European competence if the language level at the start is higher than B1level of common European competence. Content: Levels A1, A2, B1, B2 are presented in the form of cognitive-linguocultural complexes, consisting of spheres, themes, sub-themes and typical situations of international standard'scommunication: social, social - cultural, educational and professional, modeled by forms: oral and written communication, written speech works, listening.Demonstration of language material'sunderstanding in texts on educational program, knowledge of terminology and critical thinking development.Purpose of the discipline:formation of communicative competence using the Kazakh (Russian) language in the socio-cultural, professional and public life, improvement of the ability to write academic texts. Content:Levels A1, A2, B1, B2-1, B2-2 (B2, C1 Russian language) are presented in the form of cognitive-linguocultural complexes, consisting of spheres, themes, sub-themes and typical situations of communication of the international standard: social, social - cultural, educational and professional, modeled by forms: oral and	10													

				written communication, written speech works, listening. Demonstration of understanding of the language material in the texts on the educational program, knowledge of terminology and development of critical thinking.														
		GED	CC	Foreign language	Purpose of the discipline: formation of students' intercultural and communicative competence in the process of foreign language education at a sufficient level A2 and a level of basic sufficiency B1. Student reaches B2level of common European competence if the language level at the start is higher than B1level of common European competence. Content: Levels A1, A2, B1, B2 are presented in the form of cognitive-linguocultural complexes, consisting of spheres, themes, sub-themes and typical situations of international standard'scommunication: social, social - cultural, educational and professional, modeled by forms: oral and written communication, written speech works, listening.Demonstration of language material'sunderstanding in texts on educational program, knowledge of terminology and critical thinking development.	10	✓											
		GED	CC	Physical Training	Purpose of the discipline:the formation of social and personal competencies and the ability to purposefully use the means and methods of physical culture that ensure the preservation and strengthening of health in preparation for professional activity; to the persistent transfer of physical exertion, neuropsychic stresses and adverse factors in future work. Content: Implementation of physical culture and health and training programs. A complex of general development and special exercises. Sports (gymnastics, sports and outdoor games, athletics, etc.). Control and self-control during classes, insurance and self-insurance. Refereeing competitions, Means of professionally applied physical training. Modern health-improving systems: the breathing system according to A. Strelnikova, K. Buteyko, K. Dinaiki, joint gymnastics according to Bubnovsky.	8												✓
		BD	Hs	Professional Kazakh	Purpose of the discipline:to provide professionally oriented language training of a specialist who is	3	✓											

			C	(Russian) language	able to competently construct communication in professionally significant situations and speak the language norms for special purposes. Content:Professional language and its components. Professional terminology as the main feature of scientific style. Scientific vocabulary and scientific constructions in educational-professional and scientific-professional spheres. Algorithm of work on the analysis and production of scientific texts on specialty. Producing scientific and professional texts. Basics of business communication and documentation within the framework of future professional activity.														
		BD	Hs C	Professionally oriented foreign language	Purpose of the discipline:to read and translate texts related to the profession in English, establish communication on professional topics, understand and use language material in oral and written speech. Content:The place of the English language in the study of biology. Characteristics and levels of living organisms. The structure of the bacterium. Features of the simplest.Structure and diversity of animals. The plant world. The relationship between the environment and living organisms. The evolutionary development of life.	3													
		GED	CC	Information and Communication Technologies	Purpose of the discipline: formation of the ability to critically evaluate and analyze processes, methods of searching, storing and processing information, methods of collecting and transmitting information through digital technologies. Development of new "digital" thinking, acquisition of knowledge and skills in the use of modern information and communication technologies in various activities Contents: Introduction and architecture of computer systems. Software. Operating systems. Human-computer interaction. Database systems. Data analysis. Data management. Networks and Telecommunications.Cybersecurity. Internet technologies. Cloud and Mobile technologies.	5													

					Multimedia technologies. Smart technology. E-technologies. Electronic business. Electronic government.													
Total on AMBQF:																		
INTERDISCIPLINARY MODULES																		
	Fundamentals of Pedagogical Skills	BD	HsC	Pedagogy and Cyberpedagogy	Purpose of the discipline: The aim is to equip future teachers with professional competencies on the theoretical and methodological foundations of modern pedagogical science, the technology of organizing the pedagogical process, the formation of students' readiness to design and construct the educational process based on information and communication technologies based on the laws and scientific principles of cyberpedagogy. Content: The genesis of pedagogical science, regularities and principles of a holistic pedagogical process. Fundamentals of the theory of education and didactics. Problems of modern school management. Scientific principles and regularities of cyberpedagogy, methodology and technology for managing the educational process based on information and communication technologies, methods of distance learning and blended learning.	5							✓	✓				
		BD	HsC	Inclusive education	Purpose of the discipline: The aim is familiarization with modern world and domestic theories of inclusive education, the formation of future teachers' professional competencies in the design and organization of inclusive education. Content. Social significance and features of inclusive education. Patterns, principles and models of inclusive education, legal documents regulating the activities of inclusive education in a mass school. Approaches and technologies for organizing inclusive education in educational institutions. Methods of psychological and pedagogical support and creating a comfortable environment for inclusive education of children with special educational needs. Problems of creating an inclusive educational environment.	4									✓			
		PD	HsC	Practicum of Special	Purpose of the discipline: to form students' scientific and theoretical knowledge and master the methods of teaching	4							✓	✓				

				Subjects	disciplines for the specialty "Biology" at the University. Content.The purpose, objectives of the course" methods of teaching special disciplines in a higher educational institution". The development of special pedagogy on the basis of technological and information achievements of the XX century. The current state of the practice and theory of special pedagogy. Training of professionals in the system of special and inclusive education. Professional and personal qualities of a teacher in the system of special education. The philosophical justification of special pedagogy and special psychology. Methodological support of special disciplines. The structure of training sessions in a special discipline.													
		BD		Pedagogical practice	The purpose of the discipline is to deepen and consolidate the theoretical knowledge gained by students in the course of studying pedagogy, psychology courses; to master the first skills; to get acquainted with the work of a subject teacher. Content: pedagogical practice is the main form that combines theoretical knowledge and practical experience of future teachers. When passing pedagogical practice, the student-trainee determines how correctly he chose the profession, the level of compatibility of his personal abilities with the future profession. The student's professional activity matures on the basis of substantive materials, in the course of practice. At this stage, students ' skills and abilities are formed and self-confidence increases. In the process of working on a creative level, they prove their knowledge.	1					✓	✓	✓					
	Fundamentals of Psychopedagogical Sciences	BD	HsC	Physiology development of schoolchildren	The purpose of the discipline: to provide future teachers with modern data on the anatomical and physiological features of the body of children and adolescents, its relationship with the environment, to equip them with knowledge about the laws underlying the preservation and strengthening of students ' health, maintaining their high working capacity in various educational activities. Content: growth and development of the body; development of the nervous system;formation of higher nervous activity and its formation in the process of Child Development; sensory ; endocrine; musculoskeletal; respiratory; digestive; blood and cardiovascular system.	4							✓					

					Protection of the health of schoolchildren, formation of rules for a healthy lifestyle.														
		BD	HsC	Fundamentals of General and age Psychology	The purpose of the discipline: the development of students ' psychological thinking on the basis of studying and mastering knowledge about various mental phenomena, taking into account the age characteristics of the development of the human psyche. Content: introduction to Psychology. Consciousness. Personality. Activity. cognitive processes. Psychology of will, emotion, feelings. Temperament. Character. Features. The structure, functions, patterns of the psyche in ontogenesis, cognitive processes, conditions, factors, mechanisms of development of the psyche. Methodological foundations, concepts, categories, mechanisms of Developmental Psychology, the nature of age-related changes. Features, causes and factors, conditions and prospects for the positive development of the personality at different age stages of the development of the human psyche.	4						✓	✓						
		BD	HsC	Theory and Methodology of Educational Work	The purpose of the discipline: the formation of professional competencies of future teachers in the design, compilation and organization of educational work at school. Content: the essence and features of the educational process of the school and class, educational work, educational systems, the content, activities of the class teacher, planning educational work at school and in the classroom, organizing the class team and individual educational work with students, skills in providing pedagogical assistance, skills in working with difficult and gifted children, methods of working in cooperation with parents of students, problems of Career Guidance work with students. Methods for diagnosing the effectiveness of educational work.	4					✓	✓							
		BD		Psycho-pedagogical practice	The goal is to plan the psychophysical and individual characteristics of students. Content: knowledge of Social, age, psychophysical and personal characteristics, including the special educational needs of students and methods of their diagnosis; modern methods and technologies for teaching and diagnosing students ' personal qualities;	2					✓	✓	✓						

					modeling, the ability to carry out diagnostics; it is recommended to choose diagnostic methods; methods of personal and professional self-development.														
Total on IM																			
SPECIALITY MODULES																			
	Innovative Methods and Basics of Methodical Approaches in Teaching and Learning	PD	HsC	Methods of Teaching and Assessment in Geography	The purpose of the discipline: Training of future teachers who have mastered the content of geographical disciplines, the methodological system of knowledge, skills and the system for assessing the educational achievements of students in secondary schools. Contents: The history of the development of methods of teaching geography. The material base of teaching geography. Basic didactic principles in the methodology of geography. Formation and development of geographical concepts in the school subject. Methods of teaching geography and organization of educational work. Checking and assessing knowledge in geography lessons.	6													
		PD	EC	Innovative Methods of Teaching in the Geography Course	The purpose of the discipline: Training of future teachers who have mastered the system of applying new teaching methods and techniques to improve the quality of students' knowledge of geography. Contents: The concept of innovation. Classification of innovative methods. Fundamentals of interactive learning principles and goals, classification. Application of interactive methods in geography lessons. Developmental learning technologies; level learning, modular learning, information learning, learning with reference signals, problem learning. The value of using developmental learning technologies in geography.	4													
		PD	EC	Methods of Application of Information Technologies in Geography Course	The purpose of the discipline: Development of creative thinking, independent research skills in the process of teaching methods of using modern information technologies in the course of geography. Contents: Software and hardware for teaching geography, educational information - the basis of teaching geography, principles of using information technology in teaching geography. Didactic functions of teaching aids, informatization of general geographical knowledge, information resources for														

				teaching geography, application of information technologies in the system of teaching geography. Improvement of educational activity by means of information technologies, mobile classroom, Telecommunication networks and servers, digital photo and video equipment, features of the use of information technologies in teaching geography.															
		BD	EC	Hydrology	The purpose of the discipline: The study of the physical foundations of hydrological phenomena and processes, patterns of formation of surface and groundwater. Contents: Hydrosphere: structure and origin. Chemical and physical properties of natural waters. Methods and means of conducting hydrological studies of natural waters. The water cycle in nature and the water resources of the Earth. Geographic patterns of distribution of water bodies Hydrology of glaciers. Hydrology of underground waters. River hydrology. Hydrology of lakes. Hydrology of reservoirs. Hydrology of swamps. Hydrology of the seas and oceans. Fundamentals of hydrometry..	4							✓				✓		
		BD	EC	Water Resources of Kazakhstan	The purpose of the discipline: The study of water bodies in Kazakhstan and its distribution, hydrological characteristics, spatial and temporal changes in the characteristics of water bodies. Contents: Water resources of Kazakhstan, surface and ground waters, geographical location and distribution. Patterns of hydrological processes and phenomena, study and description of specific water bodies, applied hydrology, methods for calculating and forecasting various hydrological characteristics, hydrometry, methods for measuring and observing natural waters. Ecological state and rational use.								✓				✓		
		PD		Educational and Methodical Pedagogical Practice	Purpose: The purpose of educational and methodical (pedagogical) practice is to master the main activity of the pedagogical activity of a geography teacher and to form future teachers as professional and personal. Contents: Educational and methodological practice is carried out in conditions close (similar) to the main pedagogical activity. Pedagogical practice is a form of professional training of students at a university, based on a well-known theoretical foundation, providing practical knowledge of the principles and patterns of a teacher's					✓	✓	✓							

					professional activity and mastering the methods of its organization. The activities of student interns during practice are characterized by: informative, developing, organizational versatility, research, etc. During practice, students work as teachers of geography and assistants to the class teacher..														
	Theoretical foundations of geographical science	PD	EC	Geology and the basics of Geomorphology	Purpose: Formation of knowledge and skills about the influence of geological processes on the structure and composition of the Earth and the main processes and patterns of relief formation. Contents: Methods for studying the internal structure and composition of the Earth. The main structural elements of the Earth's crust and the patterns of their development. Geological table. Rocks and their types. Exogenous and endogenous processes. Relief-forming processes, morphostructures and morphosculptures. The relief of the earth's surface and modern geomorphological processes.	4								✓	✓				
		PD	EC	Basics of Geotectonics	Purpose: Mastering the knowledge of geotectonic processes and analysis of their origin, patterns of development, research methods, formation of the basic principles of tectonic zoning. Contents: The structure of the tectonosphere and the earth as a whole. Main sources of energy and deep mechanisms of tectonic processes. Tectonic movements and methods of their study. The main structural elements of the lithosphere. Oceans, their structure and origin. The concept of lithospheric plate tectonics. Principles of tectonic zoning and tectonic maps..									✓	✓				
		BD	EC	Physical Geography of Continents and Oceans	Purpose: To form ideas about the geographical position of the continents and oceans, the stages of the formation of natural complexes and physical and geographical features. Contents: Physical and geographical position of the continents. History of discovery and exploration of continents and oceans, common features and characteristics of natural components. Formation of the main natural landscapes and regional patterns of nature that determine the characteristics of the continents. Parts of the globe. Eurasia, North America, South America, Africa, Australia and Antarctica An overview of the nature of the oceans. Geographical nomenclature.	6										✓	✓		
		BD	EC	Geography of the	Purpose: Formation of students' theoretical knowledge										✓	✓			

				Service Sector	about the service sector, the territorial features of its development and geographical approaches to its study. Contents: Introduction. Indicators characterizing the development of the service sector. Service infrastructure. Criteria and indicators of the effectiveness of the territorial organization of public services. Methodology for assessing the effectiveness of the territorial organization of public services. World trade in services. Geography of culture and art. Geography of communication services. Geography of tourist services. Geography of domestic and communal services.													
	Geographical Sciences by objects of Study	BD	EC	General Geography	Purpose: to study the structure of the general geographical envelope, patterns of development, components and natural complexes of its structures at various levels. Contents: History of earth science in general. The geographical envelope of its structural and characteristic features. Space differentiation. Influence of general planetary factors on the geographic envelope. Circulation of matter and energy in the geographic envelope. Solid, water and air layer of the Earth. Teaching about the landscape sphere of the earth. Natural zoning.	5							✓	✓				
		BD	EC	Biogeography	The purpose of the discipline: Formation of knowledge about the diversity of flora and fauna, patterns of distribution of species, features of species and speciation. Contents: Two areas of biogeography: the geography of organisms and the general geography of the animal and plant world (microbocenosis, phytocenosis and geography of zoocenosis). biogeographic zones. Know the generalization and analysis of the geographical features of plants and animals; Large kingdoms of flora and fauna on land.							✓	✓					
		BD	EC	Cartography with the basics of Topography	The purpose of the discipline: Formation of cartographic methods of depicting natural objects and phenomena on general geographical and thematic maps, generalization and classification of maps and atlases. Contents: Cartography and its constituent disciplines. General information about the geographical map and globe. The shape and size of the earth. Map projections. Map nomenclature. Topographic maps and their use. cartographic generalization. Thematic maps and	6									✓	✓		

				geographical atlases, their types and features. Use of cards. Cartographic geoinformation systems. Analysis of maps and atlases and their application at school.														
		BD	EC	Cartography and orientation of the area	The purpose of the discipline: the formation of systematized knowledge, skills and abilities in the field of mapping and orientation of the area and determine the location on a topographic map. Contents: Classification of maps by content. Basic properties of a topographic map. Topographic map, terrain plan, diagrams. The content of topographic maps, symbols, features of the display of relief on topographic maps. Location orientation. Methods for measuring distances on the ground and on the map. Ground measurements and their scaling to create a map, area plan or tourist route.												✓	✓
		BD	EC	Natural science	The purpose of the discipline: The formation of students' natural science knowledge, concepts and holistic ideas about the Earth as a unique planet, the systemic relationship between nature and society, the development of functional literacy and system-integrated thinking. Contents: Natural science is the science of phenomena and laws of nature. Natural science is an integral component of culture: defining a person's worldview. Physics, mechanical motion, its relativity, the Law of conservation of energy in thermal processes. Electric charges and their interaction. Chemistry is the science of substances, their composition, structure, properties, transformation processes, the use of the laws of chemistry in the practical activities of people, in the creation of new materials. The levels of organization of wildlife, the main signs of life, the concepts of biogeocenosis, ecosystems and biosphere. Man and the environment. Geographical envelope: atmosphere, hydrosphere and lithosphere.	4											✓	✓
		BD	EC	The natural science picture of the world	The purpose of the discipline is to obtain basic knowledge, skills and abilities in natural sciences as components of a holistic scientific picture of the world. Contents: Biology and biodiversity of living organisms. Environmental chemistry and their actions on a local and global scale. Physics for science and engineering, the												✓	✓

				study of the laws of nature, the properties and structure of matter, as well as the laws of its motion. The science of nature, general earth science, general patterns of structure, functioning and development of the geographical shell. Applied mathematics, mathematical models in the field of natural sciences, mathematical statistics, programming in natural sciences.															
		BD	EC	Introduction to Specialty	Purpose: formation of general ideas about the future profession, directions of historical development, current problems and prospects of geographical sciences. Contents: Stages in the history of the formation and development of geography as a science, basic concepts, sources, methods and techniques of research in geography. The main directions of geography: "Physical geography", "Economic, socio-political geography", "Soil science", "Geography of peoples", etc. Modern topical problems of geographical science.	6							✓		✓				
		BD	EC	Fundamentals of Academic Writing	The purpose of the discipline: Mastering the general rules and methods, skills of professional reading, academic writing and oral presentation, based on the technique of cognition and its individual techniques. Contents: Academic reading and writing skills, language and structure of scientific and professional texts. Taking notes, writing abstracts, abstracts, familiarization with the results of scientific analysis, reading scientific and professional texts. Increasing the vocabulary of students through language returns that are characteristic of the scientific and professional environment used in academic vocabulary. Development of skills for participation in scientific and professional discussions and presentation of professionally oriented projects. Independent work skills		✓												
		BD	EC	Soil Geography	Purpose: formation of ideas about the geographical distribution and formation of the soil cover, classification, chemical properties of the use of land resources in agricultural circulation. Contents: Identification of the factors that control the formation of soil types and their distribution in the soil cover. Ecological functions, composition, properties of soils. Soil classification, patterns of distribution and stages of evolutionary development. Acquaintance with	5							✓		✓				

				the hierarchical relations of the factors that form the basis of the modern geographical zoning of the soil cover. Monitoring by methods of studying soil geography.														
		BD	EC	Recreational Geography	<p>Purpose: mastering the concepts, methodology and methods of research, development and placement of recreational geography.</p> <p>Contents: History of development, subject, object of research, main tasks of recreational geography. Basic concepts of recreational geography, basic laws of science. Methodology, methods and methods of recreational geography research. Recreational needs of the population and methods of their study. Description of recreational zones, cartographic scheme and natural features. Features of the organization of modern recreational and tourist activities, the possibility of effective</p>									✓			✓	
		BD	EC	Meteorology and Climatology	<p>The purpose of the discipline: Mastering the basic knowledge about the atmosphere, as part of the climate system, and the physical and chemical processes occurring in it, which form the weather and climate of our planet.</p> <p>Contents: The composition of atmospheric air and the vertical structure of the atmosphere. Radiation in the atmosphere. Baric field and wind. Thermal regime of the atmosphere. Humidity. Atmospheric and oceanic circulation. Climate and climate-forming factors. Classification of climates. The study of astronomical, geophysical and geographical factors that determine the formation and natural fluctuations of climate throughout the history of the Earth and the role of anthropogenic factors at the present stage.</p>	5								✓			✓	
		BD	EC	Earth's climate	<p>The purpose of the discipline: Formation of a holistic view of climatic processes in various regions of the Earth and their impact on atmospheric circulation, weather and in temperate and high latitudes.</p> <p>Contents: The structure of the atmosphere, earth radiation, heat and water balance. Atmospheric circulation, the process of evaporation and condensation of moisture, precipitation, dangerous meteorological phenomena. Observations and forecasting. Changes in</p>									✓			✓	

					the Earth's climate, global warming and control measures.														
		BD		Educational Practice	The purpose of the training practice: is to form and consolidate theoretical knowledge in fundamental geographical disciplines and in the protection and efficient use of the environment, teaching the skills of practical work with geographical objects. Contents: Educational practice presents research institutes and laboratories, educational organizations, state education authorities in the form of excursions. Topographic surveys of the area, their content and methods for creating cartographic materials, develop methodological and practical skills in field measurements and office processing of spatial information.	1								✓	✓		✓		
	Basics of geographical Education in a Global Context	BD	EC	Population Geography	The purpose of the discipline: Formation of knowledge about the processes of population resettlement and its reproduction in the world and labor resources, as well as demographic, religious composition, migration, linguistic features. Content: Reproduction, migration and labor resources of the population, to give an idea of the composition and structure, the ethnic group of the peoples of the world, to get acquainted with the trends of urbanization and the peculiarities of migration, population settlement, to assess the prospects for the spread of the population in the world.	4									✓	✓			
		BD	EC	Geography and Society	Purpose: formation of ideas about the role, significance, functions of geographical science in society. Contents: The main functions of geographical science in society, its specificity, the demand for social experience in a certain historical period. Modern processes of development of social, natural, technical, recreational, cultural, leisure, economic and political geographical areas. Specially protected natural territories, landscape features in territorial natural complexes. Objects of research and methods of application									✓	✓				
		BD	EC	Physical geography of Kazakhstan	The purpose of the discipline: Studying the diversity of the relief, orographic features and natural conditions of Kazakhstan, geographical patterns and their features of distribution. Contents: Physical and geographical position and	4									✓	✓			

				<p>borders of Kazakhstan. History of the study of the territory of Kazakhstan. Tectonic-geological structure, relief. Climate, climate-forming factors. Inland waters. Soil - vegetation and wildlife. Natural zones of Kazakhstan, patterns of distribution. Physical-geographical zoning. Ecological state, geoecological zoning. The physical and geographical features of individual regions are characterized</p>															
		BD	EC	<p>Environmental problems of Physical Geography</p>	<p>Purpose: Formation of ideas about the theoretical and methodological foundations of the environmental conditions of environmental problems and the structure of physical geography in the system of Earth sciences. Contents: Human activity and the geosphere of the earth. Atmosphere, hydrosphere, lithosphere and biosphere, main sources of pollution, ways of solution and restoration. Regional environmental problems, changes in geosystems and their main characteristics. Regional environmental problems, general situation, radioactive contamination and sustainable development</p>											✓	✓		
		PD	EC	<p>Landscape Science</p>	<p>Purpose: To study the formation of natural and cultural landscapes, their structure, relationships, location and patterns of development. Contents: The history of the formation of landscape science. Regional and local differentiation of landscapes. Landscape components and landscape-forming factors. landscape morphology. Geosystems of the local level. Dynamics and development of the landscape. Functional and dynamic properties of natural landscapes. Landscape geochemistry and geophysics. Classification and systematics of landscapes. Landscape research methods</p>	4							✓			✓			
		PD	EC	<p>Landscapes of Kazakhstan</p>	<p>Purpose: To study the features of the location and structure of natural landscapes and landscape zoning of the territory of Kazakhstan. Contents: The structure of natural-regional complexes. features, dynamics and evolution of natural-territorial complexes, stability of natural and natural-anthropogenic landscapes. Classification and systematics of landscapes of Kazakhstan. Landscapes of flat regions of Kazakhstan, landscapes of mountainous regions. Landscape regions of Kazakhstan. Landscape map of Kazakhstan. Landscapes in the context of environmental</p>								✓			✓			

					change.															
		BD	EC	Local studies	<p>Purpose: Studying the basics of local history, acquiring the skills of studying one's own area, expanding and systematizing students' knowledge about their native land, its history and geography.</p> <p>Contents: The history of the formation of local lore science. The main stages in the development of local history in Kazakhstan. Forms of organization of local history activities in Kazakhstan. Educational and educational value of local history. Methods and techniques of local history research. The main sources of local history material. Natural geographic study of the native land.</p>	5											✓	✓		
		BD	EC	Regional studies	<p>Purpose: Formation of a holistic understanding of the trends, patterns and interrelationships of political and economic processes, globalization and regionalization in the modern world among students.</p> <p>Content: The idea of the region as a complex, integral and socio-economic object of the respective state. Complex regional studies and its functions. Regionalization of international relations. Complex regional studies and its functions. Political geography and geopolitics. Cultural and historical regions of the world. European regionalism. CIS and regional cooperation in the post-Soviet space.</p>												✓	✓		
		PD	EC	Geoecology and nature conservation	<p>Purpose: formation of knowledge on the preservation or restoration of a favorable ecological state of natural and anthropogenic geosystems by studying the background of the environment, spatial ecology.</p> <p>Contents: Subject, goal and objectives, research methods and general structure of geoecology. Geoecology in the system of earth sciences. Theoretical and methodological foundations of geoecology. Human activity and the geosphere of the earth. Geoecological zoning of Kazakhstan. Regional environmental issues</p>	4											✓	✓		
		PD	EC	Environmental problems of the Republic of Kazakhstan	<p>Purpose: formation of knowledge about the environmental and environmental legislation of the Republic of Kazakhstan for solving environmental and environmental issues.</p> <p>Contents: Problems of ecology and environmental protection in Kazakhstan. Problems of climate change in</p>												✓	✓		

					the Republic of Kazakhstan at the present time. Atmospheric pollutants, radiation environment. General patterns and protective measures for forest damage. Measures for the effective protection of types of natural resources. Demographic situation and the concept of sustainable development of Kazakhstan													
		PD		Industrial-Pedagogical Practice I	The purpose of industrial pedagogical practice I is to deepen theoretical knowledge in general scientific, cultural, psychological and pedagogical, methodological and basic and professional disciplines, as well as to clarify knowledge in disciplines during practice, the formation of pedagogical skills and competencies. Contents: Knowledge of all the main actions of the teacher and the class teacher in the system of integrity using the experience of teachers-methodologists; mastering the basics of work of students with parents; mastering the deep psychological and pedagogical methods of the individual in unity through the study and analysis of the educational situation, mastering the methods of analysis and introspection of various forms of educational work	10					✓	✓					✓	
	Socio-economic geography and the modern world	PD	EC	Economic and Social Geography of Kazakhstan	Purpose: familiarization with the population, patterns of development and location of the economy of Kazakhstan and its individual economic regions, determining the role and place of Kazakhstan in the modern world. Contents: Economic and geographical position of Kazakhstan, natural conditions and resources, population and labor resources, sectoral composition of the economy and their characteristics, economic relations with the countries of the world, environmental problems of the republic, tourist and recreational resources, transport and logistics, the role of Kazakhstan in world cooperation, geopolitics of Kazakhstan, economic and geographical zoning of Kazakhstan.	4											✓	✓
		PD	EC	Geographical basic of sustainable development of Kazakhstan	Purpose: formation of knowledge and ideas about modern trends in the sustainability of Kazakhstan. Contents: The concept of sustainable development of the world community, adopted as the basis for the development of modern society. The concept of the transition of the Republic of Kazakhstan to sustainable development. Geographical bases of sustainable												✓	✓

					development. Demographic crisis and sustainable development. Regional aspects of sustainable development. The role of the institutional factor in sustainable development. International aspects of sustainable development. Global changes on the globe.													
		PD	EC	Economic, Social and Political Geography of the World	Purpose: To study the principles, features, factors and general conditions for the location of economic sectors in the world and in individual regions and countries. Contents: Object, subject, structure, basic teachings and theories, methods, modern problems of the economic, social and political geography of the world. economic and geographical position, natural conditions and resources, population and labor resources, sectoral composition of the economy and their characteristics, economic relations with countries of the world.	5											✓	✓
		PD	EC	Theoretical problems of Economic and Social Geography	Purpose: to form the role of economic and social geography in the scientific system of geographical sciences, the importance of economic geography in solving urgent regional and global problems. Contents: Object, subject, structure, basic teachings and theories, methods, modern problems of economic and social geography. Collection, reporting and analysis of information by cartographic, quantitative, comparative geographical, theoretical methods in economic and geographical research, methods of applying theoretical knowledge in practice.												✓	✓
		PD	EC	Geography of World Tourism	Purpose: Formation of a holistic view of the world picture of international tourism, its development in individual countries and regions. Contents: Formation and development of world tourism. Economic content and role of tourism in the modern world. Basic concepts of space organization in the geography of tourism, tourist and recreational, sightseeing tourism. The main tourist destinations in the CIS countries, the current state, the role of tourist areas in Kazakhstan, the development of tourism Actual issues of tourism development.	4											✓	✓
		PD	EC	Geography of tourism of Kazakhstan	Purpose: Formation of knowledge about recreational resources, types of tourism, infrastructure, organization and planning and modern trends in the development of tourism in Kazakhstan.												✓	✓

					Contents: Objects of study of the geography of tourism in Kazakhstan, classification of tourism, development directions, history, overview of types of tourism. Formation of types of tourism Infrastructure of tourist and recreational zones with peculiarities Economic significance of aspects of tourism development. Organization and planning of religious, historical, cultural, natural, ecological tourism in Kazakhstan.													
		PD		Industrial-Pedagogical Practice II	The purpose of industrial pedagogical practice is to test a professional position in the conditions of a specific activity: the formation of professional competencies in the field of design, implementation and evaluation of the educational process and the educational environment, as well as the clarification of knowledge in disciplines during practice. In the course of industrial pedagogical practice, students are in the place of a subject teacher, they feel the pedagogical process. Deepening the theoretical knowledge gained by students within the walls of the university. Learn to apply this knowledge in teaching and educational work with students. Mastering the skills of the subject teacher and class teacher, teacher, educator. Mastering modern technologies of educational work. To improve the acquired knowledge in pedagogy and psychology, using them to solve the chosen problem.	3					✓	✓	✓	✓				
	Geography at School	PD	EC	Updated Content in Training	The purpose of the discipline: Formation of educational and cognitive competence of students on the basis of understanding and analysis of the features of the development of an educational program focused on a modern competence-based approach in the educational process. Contents: Structure, content, purpose of the updated educational program. The principle of a gradual increase in knowledge and skills in the learning process. The purpose of training, based on the level formation of students' learning skills. Methods of teaching geography within the framework of renewed education.	4					✓	✓		✓				
		PD	EC	Methods of Teaching in Ungraded School of Natural Disciplines	The purpose of the discipline: Filling the content of the education of students enrolled in the educational program geography in the natural sciences. Contents: Methods of teaching natural sciences.						✓	✓		✓				

				Research methods. Relationship of the discipline with other sciences. The sizes of macro and micro objects of the world, the history of the origin of the Earth. The surface of the Earth, the main layers of the geographical shell, natural conditions, distribution of natural objects, habitat, geographical maps and atlases. Degree grid and coordinates. Continents and parts of the world. The nature of the oceans. The number and density of the world population.														
		BD	EC	Organization of Scientific Research Work at School	The purpose of the discipline: organization and planning of research work at school, analysis and conclusion of research methods, results obtained, preparation of articles, practice of artistic presentation of reports. Content: the subject of the Organization of research work at school is the control and management of the cognitive activity of the student, a set of approaches, methods of creation, means of knowledge of the scientific conditions of work on the basis of a planned product. Adapting the learning process with experience and the use of information technologies in processing, transportation and accumulation of accumulated material and creating results allows you to implement an individual-oriented learning model.	5											✓	✓
		BD	EC	Methods and Funds in Geographic Researches	Purpose: study of various geographical methods and means and their application in sectoral and complex geographical research. Contents: Analysis of the main methods of geomorphological, soil, geobotanical, complex physical-geographical, geophysical, geochemical, landscape-ecological and applied physical-geographical research, organization and application of field physical-geographical research and tools in complex geographical stations, development of modern methods and tools performing physical and geographical research.												✓	✓
		PD	EC	Geographic Information Systems	The purpose of the discipline: Acquaintance with the principles, modern methods of building and using geographic information systems in the Earth sciences Contents: Introduction. Goals and objectives of geoinformation mapping. Geoinformation concept. Principles of creating a GIS. Standard GIS functions. Image processing. GIS characteristic. General	4											✓	✓

					requirements for GIS. General geographic analysis. Spatio-temporal analysis. Methodological aspects of GIS application. Comparing the advantages and disadvantages of GIS and assessing the level of their use.														
		PD	EC	Geographic Modeling	The purpose of the discipline: Formation of the concept of geographical modeling, familiarity with the features and methods of modeling geographical objects, phenomena and processes and its use. Contents: Concepts about modeling in geography. Cartographic modeling; Forecast modeling; Modeling route-notes; Modeling through support schemes; Model layouts; Geolaboratory: online modeling; Analytical modeling; Modeling - situations Extreme Internet; social modeling; Excursion or hike: travel model											✓	✓		
		PD		Educational and Teaching Pedagogical Practice	The purpose of educational (pedagogical) practice is to educate students in a respectful attitude and constant interest in the teaching profession, the development of pedagogical activity, a communicative, research method. Improving general pedagogical and general psychological knowledge, skills for the formation and diagnosis of the student's personality and the state of the holistic pedagogical process of the school, class; creation of conditions for the creative organization of educational work. Formation of self-assessment of readiness for the implementation of a holistic pedagogical process. In the system of training the future profession of a teacher, the main role is played by educational (pedagogical) practice. It provides the theoretical and practical unity of teacher training, being a part of the university, inseparable from the integral pedagogical process.	4					✓	✓	✓	✓					
		PD		Educational (route-interzonal (long-distance) practice	Purpose: to consolidate and deepen the theoretical training of the student and to acquire practical skills and competencies in the field of professional activity on the problems of the development of anthropogenic, landscape, natural-economic, industrial, social, recreational and public territorial systems in different natural zones. Content: Route – interzonal observations that give ideas about the change of zonal types of natural landscapes and the relationship between natural zonality and types of organization of productive forces and settlement	2							✓	✓	✓	✓			

					systems, as well as the general nature of the interaction of nature and society. Observations (collection of factual material) on land use types, infrastructure density, and traffic flow intensity. Assessment of the attractiveness of landscapes along the route. The study of historical and cultural heritage sites along the route. Sociological surveys in cities along the practice route based on the skills acquired at the stationary stage.														
Total on MS																			
Minor Program Module																			
	Module of Acquisition of New Professional Competencies	BD	EC	Subjects on the Additional Educationa Program	Purpose: To master an additional educational program that forms additional competencies. An additional educational program, the disciplines of which form additional competencies. At the same time, the disciplines are non-core for the direction of training. Consists of several disciplines. Advantages: interdisciplinarity and expansion of competence horizons.	12						✓	✓	✓	✓				
Total by Module																			
	Module of final Certification	PD		Pre-degree or Industrial Practice	The goal is to deepen and consolidate the theoretical knowledge acquired by the student in a higher educational institution, to prepare students for the defense of the thesis before the state Attestation Commission. Content: mastering the method of scientific research in pre-graduate practice and developing the skills of conducting independent work and conducting experiments in solving problems; collecting educational and methodological materials necessary for the implementation of the thesis; studying the materials of scientific research provided for in the academic year; implementation of cases at the end of the diploma work.	4						✓			✓	✓		✓	✓
		PD		Writing and Defendinng a Thesis, a Graduate Work , or Preparing and Passing a Comprehensive Exam	Purpose: to form an idea of the general provisions on the design and protection of diploma works, preparation for final certification exams. Content: general provisions of the diploma work, selection and approval of the topic of the diploma work, scientific supervision of the preparation of the diploma work, the procedure for the formation of the content (plan) of the diploma work, selection and study of	8						✓		✓		✓	✓	✓	✓

					sources of information, collection and processing of practice material, basic requirements for the content and design of the diploma work, Protection of the diploma work, General.														
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5. Summary table reflecting the volume of disbursed loans by EP modules

Course of training	Semester	Amount of the mastered modules	Amount of the studied disciplines			Amount of KZ credits					Total in hours	Total KZ credits	University component	Amount	
			Compulsory component	University component	Optional component	Theoretical training	Physical education	Educational practice	Manufacturing practice	Final Certification				Compulsory component	Optional component
1	1	4	6		1	29	2				930	30	6	1	
	2	5	4	3	2	26	2	1	1		900	30	5	2	
2	3	6	2	5	2	28	2				900	30	6	3	
	4	5	1	2	6	27	2		1		900	30	6	2	
3	5	6		2	5	30					900	30	6	1	
	6	5		3	3	26			4		900	30	5	1	
4	7	2			7	30					900	30	6	1	
	8	2		2					10+8	12	900	30		2	
итого		13	13	17	26	200	8	1	24	12	7230	240	40	13	

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

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

Educational and resource support for EP

<p>Educational Information Center</p>	<p>The structure of the JRC includes 6 subscriptions, 16 reading rooms, 2 electronic resource centers (ERC). The basis of the JRC network infrastructure consists of 180 computers with Internet access, 110 automated workstations, 6 interactive whiteboards, 2 video duals, 1 video conferencing system, 3 A-4 format scanners, 3. JRC software - AIBS "IRBIS-64" for MSWindows (basic set of 6 modules), stand-alone server for uninterrupted operation in the IRBIS system.</p> <p>The library collection is reflected in the electronic catalog available to users on the website http://lib.ukgu.kz on-line 24 hours 7 days a week.</p> <p>Thematic databases of our own generation have been created: "Almamater", "Proceedings of SKSU Scientists", "Electronic Archive". Online access from any device 24/7 via the external link http://articles.ukgu.kz/ru/ppp.</p> <p>Working with catalogs in electronic form. EC consists of 9 databases: "Books", "Articles", "Periodicals", "Proceedings of the teaching staff of SKSU", "Rare books", "Electronic fund", "SKSU in print", "Readers" "SKSU".</p> <p>JRC provides its users with 3 options for accessing its own electronic information resources: from the "Electronic Catalog" terminals in the catalog hall and JRC departments; through the university information network for faculties and departments; remotely on the library website http://lib.ukgu.kz/.</p> <p>Access to international and republican resources is open: "SpringerLink", "Plenipotentiary Representative", "Web of Science", "EBSCO", "Epigraph", to electronic versions of scientific journals in open access, "Zan", "RMEB", "Adebiet", Digital library "Aknurpress", "Smart-kitar", "Kitap.kz", etc.</p> <p>For persons with special needs and disabilities in the JIC, the library website has been adapted for use by users with low vision</p>
<p>Material and technical base</p>	<p>Specialized classroom with an interactive whiteboard - 106, 204. Classrooms - 205, 203, 301, 303 (building No. 7, Baitursynov St.).</p> <p>Republican state institution "Sairam - Ugam State National Natural Park" of the Committee for Forestry and Wildlife of the Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan.</p> <p>Branch on the right of economic management "Kazgidromet" of the Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan in the Turkestan region.</p> <p>School-gymnasium No. 26 named after Zhambyl.</p> <p>IT school-lyceum №7 named after K. Syrataev.</p>

Professional standards

1. Professional standard “Teacher” (order of the Acting Minister of Education of the Republic of Kazakhstan dated December 15, 2022 No. 500)

