

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



Educational program

6B09111-Veterinary medicine

Registration Number	6B09100019
Code and Classification of Education	6B09 - <u>Veterinary</u>
Code and Classification of Areas of Training	6B091 - <u>Veterinary</u>
Group of educational programs (EP)	B083- <u>Veterinary</u>
Type of EP	activing
ISCE level	6
NQF level	6
IQF level	6
Language learning	kazakh. russian
The complexity of EP	300 credits
Distinctive features of EP	-
Partner University (JEP) -	-
University partner (DDEP) -	-

Shymkent, 2023

Developers:

Full Name	Position	Signature
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Full Name of students	group	
Abdirahman A.E.	Student of the group AP-19-8tk	
Isabaeva A.K.	Student of the group AII-20-8k1	
Employers full Name		P.I.
Kaltaev A.Zh.	The deputy director of South Kazakhstan regional department RSE «Republican veterinary laboratory» of veterinary control and supervision committee MA RK	
Mergenboev Zh.B.	A. Director of SME Shymkent city «Veterinary service»	
Toganaev Sh.K.	Director of the "South Kazakhstan Scientific Research Veterinary Station"	
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The educational program was considered by the decision of academic committee of «bioresources and veterinary medicine»

at a meeting of the academic committee, Minutes # 3 «14» 02 2023 y.

Chairman of the Committee

The EP was considered and recommended for approval at Educational-methodical meeting of M. Auezov SKU
Minutes # 4 «11» 02 2023 y.

The EP was approved by the decision of the Academic Council of the University
Minutes # 13 «23» 02 2023 y.

1. CONCEPT OF THE PROGRAM

University Mission	Generation of new competencies, training of a leader who translates research and entrepreneurial thinking and culture
University Values	<ul style="list-style-type: none"> • Openness—open to change, innovation and cooperation. • Creativity – generates ideas, develops them and turns them into values. • Academic freedom – free to choose, develop and act. • Partnership – creates trust and support in a relationship where everyone wins. • Social responsibility – ready to fulfill obligations, make decisions and be responsible for their results.
Graduate Model	<ul style="list-style-type: none"> • Deep subject knowledge, their application and continuous expansion in professional activity. • Information and digital literacy and mobility 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 kind of intolerance and discrimination:</p> <ul style="list-style-type: none"> • Rules of academic integrity (Minutes of the Academic Council No. 3 dated 30.10.2018); • Anti-Corruption Standard (Order No. 373 n/k dated 27.12.2019). • Code of Ethics (Protocol of the Academic Council No. 8 dated 31.01.2020).
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. Standard rules of activity 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. State obligatory standards of higher and postgraduate education, approved by order of the Ministry of Education and Science of the Republic of Kazakhstan dated July 20.2022 No. 2;

	<p>4. Rules for organizing the educational process on 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;</p> <p>5. Qualification directory of 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.</p> <p>6. Guidelines for the use of ECTS.</p> <p>7. Guidelines for the development of educational programs for higher and postgraduate education, Appendix 1 to the order of the Director of the Center for the Bologna Process and Academic Mobility No. 45 o / d dated June 30, 2021</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>It is established according to the Model Rules for admission to training in educational organizations, implementing educational programs of higher and postgraduate education, Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 600 dated 31.10.2018</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	Training of competitive veterinary specialists in the labor market capable of professional activities, owning modern methods of diagnosing and treating animal diseases, taking into account the requirements of employers
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; <li style="padding-left: 20px;">- providing lifelong learning skills that will enable them to successfully adapt to changing conditions throughout their professional career; <li style="padding-left: 20px;">- 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 professional activity in the field of veterinary medicine; • - creating conditions for intellectual, physical, spiritual, and aesthetic development to ensure that they can be employed in their specialty or continue their studies at subsequent levels of education
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 EP with the professional sphere	<p>Professional standards of veterinary activities (from 01.21.2014. No. 20/39) and the standard of October 31, 2018.</p> <p>Professional standards for animal breeding (“Breeding of camel in the milk direction”, “Breeding of cattle in the milk direction”, “Breeding of sheep and goats”, “Breeding of bird”, etc.). from 12/26/2019 Number 263</p> <p>Terrestrial Animal Health Code, Topic I and II, twenty-eighth edition, 2019</p> <p>OIE recommendations “OIE Guidelines on Qualification Requirements for Graduates of Veterinary Faculties with the Purpose of Guaranteed Quality Work in National Veterinary Organizations.</p>
Name of the degree awarded	After successful completion of this EP, the graduate is awarded the degree of veterinary specialist in the educational program "6B09111 Veterinary medicine"
List of qualifications and positions	Qualification directory of positions of managers, specialists and other employees approved by the order of the Minister of labor and social protection of the population of the Republic of Kazakhstan dated desember 30, 2020 №. 553.
Field of professional	- prevention and treatment of infectious, invasive and non-

activity	infectious diseases of animals, birds and fish bred in farms of various directions and forms of ownership; <ul style="list-style-type: none"> - carrying out prevention of diseases common to humans and animals (anthropozoonosis); - protection of the environment from pathogens transmitted by through sick animals and dead animals.
Objects of professional activity	<ul style="list-style-type: none"> - all types of economic entities of agricultural production; - transport, circuses, racetracks, public service, tribal associations; - - veterinary hospitals, veterinary pharmacies, laboratories, zoos, nature reserves, meat processing plants; - - bio-processing plants and other enterprises that manufacture and control the quality of biological products; - institutions for wholesale and retail sale of livestock, poultry, fish, and beekeeping products; - institutions of the state veterinary service; - research institutes and organizations of veterinary and biological profile; - military veterinary service; - educational veterinary institutions.
Subjects of professional activity	<ul style="list-style-type: none"> - all types of animals, birds and fish, equipment and devices for the diagnosis, treatment and prevention of animal diseases, medicines, biologics, chemical reagents, bioactive substances, diagnosticums, macro and micro-preparations, raw materials and products of animal and plant origin, equipment for educational and scientific purposes, feed, pastures and water sources.
Types of professional activity	A specialist degree in veterinary medicine can perform the following professional activities: <ul style="list-style-type: none"> - organizational and technological; - production and management; - medical; - research and design;
Research activities:	<p>introduction of scientific developments and innovative technologies into production; participation in scientific programs and projects conducted by research institutions of veterinary, biological and environmental areas; participation and presentation of reports at scientific forums on the subject of research.</p> <p>Organizational and technological activities: control over compliance with veterinary legislation on the territory of the Republic of Kazakhstan; organization and monitoring of the occurrence and spread of non-infectious diseases of animals, birds and fish; training and monitoring of compliance with veterinary personnel and other employees of livestock, poultry and fish farming safety when working with animals, birds and fish; monitoring of compliance with veterinary and sanitary rules in the production and sale of fish, poultry, animal and plant products, biologically active substances and additives; assessment of the economic efficiency of veterinary measures.</p> <p>Production and management activities: organization and control over compliance with the technology</p>

	<p>of production, processing, storage, transportation and sale of products of animal and plant origin; organization and control over the manufacture and use of medicines, biological preparations and feed additives; control over the preparation and preparation of feed for feeding.</p> <p>Medical activity: organization and control of treatment and prevention of infectious, invasive and non-infectious diseases, control over the manufacture and use of medicines, biological preparations; vaccines, serums, diagnosticums and other biologically active substances and additives; the value of drugs, their mechanism of action for the prevention and treatment of animal diseases and increase their productivity</p> <p>Project activity: participation in the development of design and estimate documentation for the construction of food, meat and dairy industry, retail chain, veterinary hospitals, stations, laboratories, pharmacies, livestock facilities.</p>
<p>Learning outcomes</p>	<p>LO1 Communicate freely in a professional environment and society in Kazakh, Russian and English, understanding the principles and culture of academic honesty</p> <p>LO2 Demonstrate socio-cultural, professional development, based on the formation of worldview, civil, spiritual and social responsibility, methods of scientific and experimental research</p> <p>LO 3 Have information and computer literacy, generalize, analyze and accept information, set goals and choose ways to achieve them</p> <p>LO 4 Know the anatomy and physiology of animals, birds, the structure of the microscopic and chemical structure of organs and veterinary terminology.</p> <p>LO 5 Have knowledges of the development and outcome of the disease; methods of pathoanatomic autopsy; preservation and transfer of pathological material.</p> <p>LO 6 Plan zoohygienic, preventive and veterinary and sanitary measures, maintenance, feeding and breeding of animals</p> <p>LO 7 Choose drugs for treatment, determine the best ways to use drugs in case of animal poisoning, ensure biological and radiation safety</p> <p>LO 8 Perform therapeutic, surgical and obstetric-gynecological techniques and manipulations for the treatment of animals with diseases of various etiologies.</p> <p>LO 9 Conduct bacteriological, virological, immunological studies, diagnosis, treatment and prevention of infectious, parasitic diseases of animals and birds</p> <p>LO 10 Conduct inspection and veterinary and sanitary examination on the safety and quality of products and raw materials of animal, bird, vegetable origin to create a healthy lifestyle</p> <p>LO 11 Plan the organizational work of the veterinary service and management, veterinary supervision at the border, using the animal information database</p>

	LO 12 Use research, entrepreneurial and professional skills in an environment of uncertainty.
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3. COMPETENCIES OF GRADUATES OF THE EP

GENERAL COMPETENCES : (SOFTSKILLS). Behavioral skills and personality traits	
GC1 in the native language area	KC 1.1. the ability to express and understand concepts, thoughts, feelings, facts and opinions in the field of education in written and oral forms (listening, speaking, reading and writing), as well as to interact linguistically appropriately and creatively in a variety of social and cultural contexts: during school, at work, at home and at leisure;
GC 2. in the field of foreign languages	KC 2.1. ability to master the basic communication skills in a foreign language-understanding, expressing and interpreting concepts, facts and opinions in the professional field both orally and in writing (listening, speaking, reading, writing) in the appropriate range of social and cultural contexts, skills in mediation and intercultural understanding;
GC 3. basic mathematical, natural science and technical training	KC 3.1. the ability and readiness to apply the educational potential, experience and personal qualities acquired during the study of mathematical, natural science, technical disciplines at the University, to determine ways to control and evaluate the solution of professional problems, the development of mathematical and natural science thinking;
GC 4. computer competence	KC 4.1. the ability to confidently and critically use modern information and digital technologies for work, leisure and communication, the ability to use, restore, evaluate, store, produce, present and exchange information through a computer, communicate and participate in communication networks using the Internet in the field of professional activity;
GC 5. social competence	KC 5.1. ability to use socio-ethical values, based on public opinion, traditions, customs, norms and focus on them in their professional activity; know the culture of the peoples of Kazakhstan and to observe their traditions; to observe the principles of the legal system and legislation of Kazakhstan, to know the trend of social development; be able to adequately navigate the various social situations; to be able to find compromises, to relate their opinion with the opinion of the team; own business ethics standards, ethical and legal standards of conduct; strive for professional and personal growth; work in a team, correctly defend your point of view, offer new solutions; demonstrate tolerance towards other individuals;
GC 6. economic, managerial and entrepreneurial competencies	KC 6.1. - the ability to know and understand the goals and methods of state regulation of the economy, the role of the public sector in the economy; possess the basics of economic knowledge; possess the skills of critical thinking, interpretation, creative analysis, drawing conclusions, evaluation; manage projects to achieve professional goals, manage staff, demonstrate entrepreneurial skills.
GC 7. cultural	KC 7.1. the ability to know and understand the traditions and

background	<p>culture of the peoples of Kazakhstan, to be tolerant of the traditions and culture of other peoples of the world, to be aware of the attitudes of tolerant behavior; not to be subject to prejudice, to have high spiritual qualities, to be formed as an intelligent person</p> <p>KC 7.2 possess the skills of critical thinking, interpretation, creativity of analysis, drawing conclusions, evaluation; have creativity and an active life position; make professional decisions in conditions of uncertainty and risk.</p>
PROFESIONAL COMPETENCES: (HARDSKILLS).	
Theoretical knowledge and practical skills specific to this area	PC 1. ability to perform basic therapeutic measures for the most common diseases and conditions in adult animals, young animals and newborns that can cause severe complications and (or) death: diseases of the nervous, endocrine, immune, cardiovascular, respiratory, digestive, genitourinary systems and blood;
	PC 2. ability to carry out the necessary diagnostic, therapeutic, surgical obstetric and gynecological measures; knowledge of aseptic and antiseptic methods and their application;
	PC 3. ability to carry out prevention, diagnostics and treatment of animals in infectious and invasive diseases, poisoning and radiation damage, knowledge of methods of veterinary sanitation and improvement of farms;
	PC 4. work is performed during the veterinary and sanitary examination of slaughter products, carcasses (carcasses) and organs of slaughtered animals.
	PC 5. ability to carry out long-term planning of veterinary and production units, to assess and forecast the economic development of the veterinary service, to evaluate the effectiveness of veterinary measures;
	PC 6. to master methods of research activities in the field of veterinary medicine.

3.1 Matrix for correlating the results of training on EP in General with the formed competencies of modules

	RT1	RT2	RT3	RT4	RT5	RT6	RT7	RT8	RT9	RT10	RT11	RT12
GC 1	+	+	+									
GC 2	+	+	+									
GC 3			+								+	+
GC 4		+	+								+	
GC 5		+				+					+	+
GC 6		+	+								+	+
GC 7	+	+										+
PC 1								+	+		+	
PC 2							+	+	+			+
PC 3					+			+	+	+	+	

PC 4				+	+					+	+	
PC 5							+				+	+
PC 6			+								+	+

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

№	The name of the module	cycle	component	The name of the component	Short description of the discipline	number of credits	Formed DE (codes)															
							LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8	LO 9	LO 10	LO 11	LO 12				
1	Module of the Social Science	GED	OC	History of Kazakhstan	The purpose of the discipline is 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. 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.	5		v														
2		GED	OC	Philosophy	Purpose 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	5		v														

				<p>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>Contents 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 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</p>														
3	Module of Socio-Political Knowledge	GED	OC	<p>Sociology and Political Science</p>	<p>The goal of forming knowledge about social and political activities, explaining social and political processes and phenomena.</p> <p>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</p>	4	v											

				<p>Kazakhstani society and solve conflict situations in society and professional environment based on them.</p> <p>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	OC	<p>Cultural Studies and Psychology</p> <p>Purpose: 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 spiritual basis. The meaning of life, professional self-determination, health.</p>	4	v												

					Communication of the individual and groups. Socio-psychological conflict. Models of behavior in conflict.													
5	Socio-ethnic of Development Module	GED	HSC	Ecosystem and Law	<p>The purpose: Formation of integrated knowledge in the field of economics, law, anti-corruption culture, ecology and life safety, entrepreneurship, scientific research methods.</p> <p>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.</p>	5		v										
6		BD	EC	Actual problems and modernization of public consciousness	<p>The purpose of the discipline is the restoration of spirituality, deformed during the periods of tsarist and Soviet reality, the formation of a creative personality based on the modernization of the public consciousness of young people.</p> <p>Spiritual modernization: origin and background. Modern national identity. Pragmatism and competitiveness.</p>	3		v										

				<p>National identity and national code. Experience and prospects of evolutionary development. The triumph of knowledge and openness of consciousness. Alphabet Reform: Experience and Priorities. Fatherland is the basis of the state. Education through nationwide sacred places and history. Modern Kazakh culture is the cornerstone of spiritual revival. New humanitarian education and the future national intelligentsia. Abai Kunanbaev and Kazakh society.</p>														
7		BD	EC	Abay Studies	<p>Purpose: based on the creativity of A.Kunanbayev, the preservation of the «national code» and in the project «Kazakhstan»</p> <p>Contents: 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.Auyezova «The Way of Abai» . K. Tokayev «Abai and Kazakhstan in the</p>	v												

					XXI century», role, significance.														
8		BD	EC	Mukhtar Study	<p>Purpose: 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.</p> <p>The content of the discipline 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 "Korgansyzydyn 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".</p>														
		BD	EC	Service to the community	<p>The aim is the formation of socially significant skills and competencies in students based on the assimilation of academic programs, carrying out socially useful activities related to the disciplines studied at the university.</p> <p>Content. The concept and meaning of Service learning, the history of the formation and development of the concept of Service Learning. Key components of Service Learning, socially useful activities in the children's and youth environment, organization of</p>														

					volunteer movement in the world and Kazakhstan practice, profile orientation of Service Learning. International practice of learning through socially useful activities. General principles and methodology for the development of social projects. Methods of analysis of implemented social projects.													
		BD	EC	Fundamentals of Anti-corruption Culture	<p>Purpose: formation of an anti-corruption worldview, strong moral foundations of a personality, civic position, stable skills of anti-corruption behavior.</p> <p>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.</p>		v											
9	Module of Communic	GED	OC	Kazakh (Russian)	<p>Purpose: formation of communicative competence using the Kazakh (Russian)</p>	10	v											

	ation and Physical			language	language in the socio-cultural, professional and public life, improvement of the ability to write academic texts. The contents. 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 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.													
10		GED	OC	Foreign Language	The aims is a 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 The contents. 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	10	v											

				standard's communication: social, social-cultural, educational and professional, modeled by forms: oral and written communication, written speech works, listening. Demonstration of language material's understanding in texts on educational program, knowledge of terminology and critical thinking development.														
11		GED	OC	Physical Training	<p>Objectives of the discipline: Objective: 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.</p> <p>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.</p>	8	v											

12		BD	UC	Professional Kazakh (Russian) Language	<p>Goal: to provide professionally oriented language training of a specialist who is able to competently construct communication in professionally significant situations and speak the language norms for special purposes.</p> <p>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.</p>	3	v											
13		BD	UC	Professionally Oriented Foreign Language	<p>Develops knowledge of the functional and stylistic characteristics of the scientific presentation of the material in the foreign language being studied; studies General scientific terminology and terminological sublanguage of the corresponding specialty in a foreign language; instills the skills of free reading, translate original literature on the chosen specialty with subsequent analysis, participate in professional discussions, scientific debates, round-table discussions.</p>	3	v											

14		GED	OC	Information and Communication Technologies	<p>Purpose: 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</p> <p>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. Multimedia technologies. Smart technology. E-technologies. Electronic business. Electronic government.</p>	5		v										
15	Biological Basis of Veterinary Medicine	BD	UC	Morphology of Animals I	<p>Purpose: The study of the skeleton (osteology), the connection of bones (syndesmology), active movement, forms knowledge about the muscles (myology), skin and its derivatives (dermatology) as an organ system, their general morphofunctional characteristics, structure, significance in the life of the organism, phylogeny and ontogenesis, communication features.</p> <p>Contents: Functional anatomy of the</p>	4		v										

				<p>skeleton. The structure and classification of bones; The division of the skeleton into parts. The structure of the joints, their description and classification. Muscle structure, classification and laws of their distribution in the body. The structure and Latin names of the muscles of the chest, head and limbs.</p>														
16		BD	UC	<p>Morphology of Animals II</p>	<p>Purpose: mastery of functions, the importance of systems of internal organs (organs), their relationship in location, general patterns in structure and development, close connection with the environment, types of feeding, anatomical and physiological foundations of the functioning of the body Contents: The structure of organs in animals, circulatory organs, digestive system, respiratory, nervous, reproductive systems. Individual study of the position, structure of individual organs.</p>	5			v									
17		BD	UC	<p>Animal Physiology and Biochemistry I</p>	<p>Purpose: Students' knowledge of the structure and functions of the animal body and the mechanisms of their regulation The ability to analyze the physiology of muscles and nerves, the functions of the central and autonomic nervous system, lactation, the role of analyzers in the knowledge of the</p>	5			v									

				<p>outside world.</p> <p>Contents: the concept of the blood system, the importance of blood circulation, the process of respiration and digestion, the nervous system, metabolism, excretory processes, endocrine glands and sexual maturity of females and males.</p>														
18		BD	UC	<p>Animal Physiology and Biochemistry II</p>	<p>Purpose: The study of the chemical composition, the synthesis of biochemical compounds, the molecular structure, the patterns and properties of a living organism. Ability to analyze the biochemistry of nucleic acids and biosynthesis of proteins, the regulation of water and mineral metabolism in the body</p> <p>Contents: the mechanism of dissolution and ionization of water, dispersed systems of the body, biological regulators of metabolism, biological catalysts of biochemical processes and the close relationship between the metabolism of carbohydrates, lipids, proteins.</p>	5				v								
19		BD	EC	<p>Animal Cytology, Histology and Embryology</p>	<p>Purpose: to form knowledge about the general patterns of development, structure and function of cells, the patterns of differentiation and regeneration of tissues, to possess knowledge of the role of the nervous</p>	5				v								

				<p>system in the process of morphogenesis and the function of cells, tissues and organs. Know how to use laboratory equipment</p> <p>Contents: Histogenesis. Morphofunctional organization of tissues. Regeneration and its mechanisms. Mitosis. Meiosis. Embryology, stages. epithelial tissue. Features of cells and the environment of different types of connective tissue. specificity of muscle tissue. The structure and functions of the nervous tissue.</p>													
20		BD	EC	<p>Evolution and Pulogenesis of Animals</p> <p>Purpose: to form an understanding of the fundamental laws of the evolution of the living world (type-class-order-genus); skills in phylogenetic research: comparative anatomical, comparative genetic methods.</p> <p>Contents: Ch.Darwin's evolutionary theory. Phylogeny of living organisms. Forms of phylogenesis. Phylogeny and embryogenesis. phylogenetic series. Ontogeny, stages of ontogenesis. The essence of ontogeny and place in evolution. Biogenetic law of Hegel, Müller. The gradual emergence of types, classes, orders of animals. The process of development of systems and organs. Organ evolution. Phylogeny and its stages. Adaptation and their types.</p>				v									
21	Basics of	BD	EC	Latin	Purpose: The alphabet and the basics of	4	v		v								

	Specialty			Veterinary Terminology	the Latin language are studied, the use of Latin terms and pronunciation in veterinary practice, Latin aphorisms and special expressions Contents: The relationship of terms and term elements used in the field of veterinary medicine. List of term elements. The name of animals and the list of medicinal plants, drugs, the name of animal diseases in Latin													
22		BD	EC	Pharmaceutical Terminology	Purpose: studying the basis of modern veterinary pharmaceutical terminology based on Latin grammar and professional terminological vocabulary Contents: Correct pronunciation and reading of Latin pharmaceutical terms. Prescription structures and the ability to correctly format the Latin parts of a prescription for essential drugs in various forms. Clinical terminology in Latin.				v		v							
23		BD	EC	Introduction to Specialty	Purpose: Considers the theory and practice of building a veterinary service and managing it at various levels of the economy and the state apparatus, as well as possess theoretical knowledge and practical skills on the treatment and prevention of farm animals, plans veterinary activities. Contents: The emergence of animal husbandry Domestication of animals. Species and genus of domestic animals. Organization of veterinary business in	4					v							

				Kazakhstan. Animal husbandry in ancient Kazakhstan. Creation of the state veterinary service. Veterinary law. Scientific research														
24		BD	EC	Fundamentals of Academic Writing	<p>Purpose: It studies the main features of the scientific style of speech</p> <p>Contents: Educational essay. Research Article. Abstract (review). Course work. Scientific report. Presentation for the report. Representations about written forms of research. Academic writing skills. Citations. Borrowings. Anti-plagiarism.</p>													
		BD	EC	Veterinary Genetics	<p>Purpose: structure, structural and chromosomes, the main patterns of heredity and variability; analyze types of gene anomalies and chromosomal diseases of animals, types of genetic variability; have the skills to conduct biometric processing of primary veterinary materials or experimental results.</p> <p>Contents: Fundamentals and theory of genetics. Genetics of microorganisms, Immunogenetic and biochemical polymorphism. population genetics. Inheritance of resistance and susceptibility of animals to diseases. Methods for studying hereditary resistance and susceptibility to diseases.</p>	5												
		BD	EC	Genetic engineering	<p>Purpose: Instills the ability to determine the chemical structure of a gene, use information about the heredity of an</p>													

					organism and the analysis of the subscription method, study the methods of genetic engineering; forms competence in questions with the simplest molecular methods of research and setting up an experiment. Contents: The structure of nucleic acids. Implementation of genetic information in viruses, phages, pro- and eukaryotes. Replication. transcription, translation; the mechanism of repair of damaged DNA. Mechanisms of gene rearrangement. Accounting and registration of congenital anomalies and diseases, genetic analysis. Relationship between polymorphic systems and genetic resistance of farm animals to diseases												
		BD	HSC	Educational Practice	Helps to consolidate theoretical knowledge; to get acquainted with the basics of agricultural production; to master practical skills in the care, maintenance and feeding of animals; familiarization with safety techniques when working with animals; to master the methods of preparing veterinary measures; to prepare and master the methods of preparing chemical reagents	1			v	v							v
25	Animal Feed Technology and Basics of	BD	UC	Veterinary Microbiology and Virology I	Purpose: obtaining knowledge about the form, biology, features of reproduction and pathogens of infectious diseases of microbes, as well as biology, patterns of origin and spread of infectious diseases,	5			v								v

	Chemistry			the formation of immunity. Contents: The study of the morphology and physiology of microbes, their resistance to various physical and biological influences, distribution in the external environment, the origin and spread of infectious diseases, immunity, biological properties of pathogens, methods of laboratory examination of infectious diseases														
26		BD	UC	Veterinary Microbiology and Virology II	Purpose: obtaining knowledge about the main types of viruses, their forms of existence and physical and chemical structure, the pathogenesis of viral diseases, the features of antiviral immunity, modern approaches to the prevention and principles of diagnosis of viral animal diseases, the characteristics of the most relevant viral diseases; Contents: Study of the main groups of viruses, their classification; laboratory methods for diagnosing viral infections, express methods, virological methods and retrospective diagnostic methods, rules for the selection, delivery and storage of biomaterial, sterilization and disinfection methods, forms of exposure of pathogenic microorganisms to animals	5											v	
30		BD	EC	Basics of Animal Husbandry	Purpose: To impart theoretical and practical knowledge on general animal husbandry, to know the biological characteristics of farm animals, the	4												v

				<p>basics of animal husbandry. Content: Knowledge and understanding of technology features: production, processing, primary processing, harvesting, transportation and storage of livestock products, skills in: assessing the quality of products and their technology, laboratory analysis methods, the use of raw material processing technology in various agricultural formations, the principles of production planning and the sale of finished meat, dairy and other livestock products. Formation of knowledge along the chain: "production of raw materials - sales of finished products." Mastering the technology and organizing the production of products of rare species of domestic and wild animals that are of value in medicine and pharmacological production.</p>														
31		BD	EC	Advanced Feed Preparation Technology	<p>Purpose: to teach students to create a solid fodder base through rational use, improvement of field fodder lands. Content: Knowledge and understanding of new technologies and feed production , feed preparation and feeding. Mastering the technology of fodder harvesting and preparing them for feeding to animals; knowledge of computer programs for the preparation of special feed for animals of the dairy direction of productivity. Ability to plan the level of animal feed</p>					v								

				needs for a day, month, season and year.															
32		BD	EC	Feeding Animals	<p>Purpose: to teach future specialists the conditions of proper organization of feeding of farm animals aimed at preserving their health and increasing productivity, for which to familiarize them with the chemical composition of feed and methods of assessing their nutritional value and quality.</p> <p>Content: Possess knowledge of the basics of determining the need, nutritional value and energy intensity of feed. Knowledge of methods for evaluating the feed used and the development of standard rations, taking into account the technique and technology of feeding in conditions of stable keeping of animals. Be able to calculate the needs and determine the norm for fattening livestock of horses, steers, sheep and broiler birds. To develop knowledge on the technology of production and preparation of modern granular feeds, briquettes, feed additives and vitamins, knowledge on the preparation of special norms and rations for the use of compound feeds, BVMC, VK, MK and premixes..</p>	4						v							
33		BD	EC	Fish nutrition and feeding	<p>Purpose: To form practical skills in the preparation of feed and feeding of fish.</p> <p>Content: Studies the physiology and nutritional needs of certain fish species, the classification of feed, feed</p>							v							

				production, features in the selection of food and fish feeding. Forms practical skills of feeding salmon, sturgeon and cyprinid fish independently and with the help of automation.															
34		BD	EC	Analytical and Colloidal Chemistry	<p>Purpose: The purpose of the work: Formation of knowledge in analytical, physical and colloidal chemistry and inculcation of skills necessary in professional activity when conducting analyses.</p> <p>Content: The importance of analytical, physical and colloidal chemistry for the training of veterinary specialists. Redox reactions. Detection of cations and anions. Classification ionov. Group reagent. Gravimetric analysis. Titrimetric analysis. Indicator. Physico-chemical methods of analysis. Bougueret-Lambert-Bera law. Optical methods. Colorimetry. Photometry. Chromatography. Potentiometry. Conductometry. Energetics of chemical reactions. Enthalpy. Law of Hess. Entropy. Energy in Gibbs. Solution. Electrolyte and non-electrolyte. Van't Hoff's law. Surface-active substances. Surface tension. Adsorption on the surface of solutions. The Gibbs equation. Colloid systems. Disperse systems. The degree of dispersion. Method of production and purification of colloidal systems. Sedimentation. Coagulation.</p>	5			v										

					Peptization.														
35		BD	EC	General Chemistry	<p>Purpose: Goal formation of students' experimental skills in the structure and properties of substances, theoretical foundations and general patterns of chemical and electrochemical reactions.</p> <p>Content: The structure of the atom. Periodic law of D. I. Mendeleev and the periodic system of elements. Chemical bond. Covalent bond. Energy of chemical reactions. Chemical kinetics. Solutions. Hydrolysis of salts. Redox reactions. Complex connections. Methods of qualitative and quantitative analysis. Provides experimental substantiation of theoretical issues of inorganic and analytical chemistry. Uses the laws of thermodynamics to predict the direction of the flow of chemical processes, conducts a chemical experiment in laboratory conditions, correctly conducts the results of the experiment.</p>				v										
36		BD	HSC	Industrial Practice I	Methods of fixing and felling animals are mastered; diagnostics, administration of medicinal substances; skills are acquired: providing primary veterinary care, skilful management of veterinary documentation; conducting laboratory research; performing medical procedures prescribed by a veterinarian, carrying out preventive measures.	3									v	v	v	v	
37	Pharmacol	BD	UC	Animal	Purpose: is to study the basic	5				v									

	ogical and Sanitary Basis of Veterinary Medicine			Pathology I mechanisms and general patterns of occurrence, development and outcome of the pathological process. Contents He studies general pathological processes with a constant and typical course, occurring in a variety of diseases; to recognize the occurrence of etiology and the development of structural changes in pathological processes and diseases; inflammation, tumors, fever, hypoxia, metabolic disorders, starvation.														
38		BD	HUC	Animal Pathology II Purpose: consists in the formation of an objective idea of general pathological disorders, primarily related to individual organs or systems Contents He studies pathological disorders, primarily related to individual organs or systems: blood circulation, respiration, excretion, digestion, endocrine, nervous. Revealing from the position of dialectical materialism the general patterns of development of pathological processes, the essence of the disease, pathological physiology makes it possible to diagnose, prevent and treat these diseases.	5					v								
39		BD	HSC	Animal Pathology III Purpose: the formation of an objective view in the field of pathological anatomy of animals, it is necessary to understand the cause of the onset and dynamics of the development of pathological processes in organs and tissues.	5					v								

					<p>Contents: General pathological anatomy, which outlines general pathological, adaptive and compensatory processes, are characteristic of all diseases;</p> <p>Private, or special, pathological anatomy, in which the etiology, pathogenesis, diagnosis of a separate independent disease and organopathology are studied.</p>													
40		BD	EC	Veterinary Hygiene and Sanitation	<p>Purpose: study the theoretical foundations of the impact of environmental factors on the body and health of animals, take care of livestock, increase its productivity, study veterinary and sanitary and hygienic rules for the protection of livestock buildings from infectious and parasitic diseases and environmental parameters.</p> <p>Contents: Air hygiene, atmospheric air indicators, air microorganisms, weather, climate, microclimate and their influence on the animal organism. Fundamentals of sanitary-hygienic assessment of air in livestock buildings. Sanitary water hygiene. Animal feed and feeding hygiene.</p>	5					v							
41		BD	EC	Hygiene of Animals	<p>Purpose: Understand the rules for using, keeping, feeding, watering, keeping and regional characteristics of farm animals, breeding them according to the type of animals, learning the basic provisions of</p>						v							

				<p>veterinary and sanitary hygiene rules depending on the age, sex and type of animals.</p> <p>Contents: Animal care hygiene in the pasture, zoohygienic requirements for stall equipment, pasture use systems, hygiene care for cattle, cattle, pigs. Regulatory framework for the design of livestock premises. General hygienic and veterinary and sanitary measures in animal husbandry.</p>													
42	BD	HSC	Veterinary Pharmacology and Toxicology I	<p>Purpose: a comprehensive study of the state of development of pharmacy and pharmaceutical business in the Republic of Kazakhstan and abroad, the pharmacological features of new drugs, their use for the prevention and treatment of diseases of animals and birds</p> <p>Contents: Types of action of medicinal substances, routes of administration and excretion of medicinal substances from the body, dosing principles. Substances that depress and excite the central nervous system, Substances that depress, irritate the afferent and efferent nerves. Substances that act primarily on individual organs and systems, Substances that primarily affect the processes of tissue metabolism. Antimicrobial and antiparasitic substances.</p>	5						v						
43	BD	UC	Veterinary	<p>Purpose: study of the mechanism of</p>	5						v						

				<p>Pharmacology and Toxicology II</p> <p>toxic substances of anthropogenic and natural origin on the body of farm animals, birds, wild and game animals, fish and bees, on their productivity and sanitary quality of livestock products, as well as the development of rational methods for diagnosing, preventing and treating poisoning</p> <p>Contents: Toxic substances and their classification by toxicity and danger. Chemical toxicoses. Poisoning with salts of heavy metals and medicinal substances. Pesticide poisoning. Phytotoxicosis. Feed toxicosis. Mycotoxicosis. Toxicosis caused by poisons of animal origin</p>													
44		BD	EC	<p>Laboratory Work in Veterinary</p> <p>Purpose: Contributes to the possession of skills: effective and efficient organization of laboratory research; study of the issuance of conclusions based on the results of laboratory analysis.</p> <p>Contents: Structure of veterinary laboratories. The value of laboratory research. Rules for handling bacteria. Acquaintance with the rules of technical safety when working with viruses and virus-containing pathological materials in a virological laboratory. Disinfection: types and methods. Fundamentals of the application of toxicological studies. Immune reactions and their use in the veterinary laboratory.</p>	5						v						

45		BD	EC	Veterinary laboratory equipment	<p>Purpose: Forms knowledge about devices devices, equipment and their installation; procedure for use and operation; preparation of instruments for research and analysis.</p> <p>Contents: Introduction to laboratory glassware. Laboratory equipment for special applications. Laboratory equipment equipment. Chemical reagents. Anhydrous solutions and paints. Features of the manufacture of laboratory glassware. Chemical cleaning methods. laboratory animals. Maintenance of laboratory animals use of animals</p>								v					
46	Organization of Veterinary Management and Safety	BD	EC	Management in Veterinary	<p>Purpose: Formation of students' correct understanding of the construction of the veterinary service and management of the basics of veterinary management in the Republic of Kazakhstan. Formation of students to carry out organizational work on the conduct of veterinary events.</p> <p>Contents: Fundamentals of veterinary management, history of veterinary service, law “on veterinary medicine” R K, Veterinary system of R K, organization of veterinary inspection, State veterinary organizations, State veterinary supervision, Organization of veterinary events, Planning of veterinary events, veterinary accounting and reporting, veterinary service in foreign</p>	4												v

				countries countries.															
47		BD	EC	Customs procedures in veterinary medicine	<p>Purpose: to master the principles of customs control and state veterinary and sanitary supervision by specialists of customs and border veterinary posts in accordance with the Customs Code of the Republic of Kazakhstan. Transportation of cargo under veterinary control and execution of accompanying documents. The procedure for conducting state veterinary and sanitary supervision of controlled goods when crossing the state border.</p> <p>Contents: The procedure for issuing a veterinary certificate, a veterinary certificate for transported goods under veterinary supervision. Identification of farm animals, assignment of registration numbers to production facilities. principles of public service. Rules for the quarantine of animals exported to a foreign country.</p>													v	
48		PD	EC	Organization of veterinary business	<p>Purpose: organization of veterinary services in livestock farms at enterprises for the procurement, storage, processing of meat and dairy, livestock raw materials, transport, and other sectors of the national economy, the study of the economic efficiency of veterinary measures and the main forms and methods of work of veterinary specialists</p> <p>Contents: Organizational structure of state veterinary organizations. Tasks and</p>	4					v		v	v				v	v

				functions of the republican anti-epizootic detachment. Subdivisions of state bodies carrying out activities in the field of veterinary medicine. The structure of the organization and planning of veterinary measures Fundamentals of veterinary and sanitary supervision. Funding for veterinary activities. Veterinary medicine abroad.															
49		PD	EC	Veterinary business	<p>Purpose: The study of new forms of organization of veterinary business: organization of veterinary work, price structures, forecasting, financing, taxation, marketing and management, training in ensuring state control and regulation of veterinary business.</p> <p>Contents: Organization of individual entrepreneurial activity in the field of veterinary medicine. Organization of veterinary clinical treatment of animals of various private spheres. Ways of legal regulation of veterinary activities. Veterinary ethics of veterinary industries and professional veterinary ethics.</p>													v	v
50		BD	EC	Veterinary Immunology	<p>Purpose: Considers the regularity of the immune system of the animal organism, considers the possibility of determining the antigen, antibodies, theoretical structure, the formation of immunity, organs involved in the synthesis of antibodies, the technique of organ placement and immunological reactions,</p>	5												v	

				types of immunity, the location of lymph nodes and cells, the possibility of determining the immune status. Contents: Regulatory and effector functions of immunocompetent cells and cytokines produced by them, the role of intercellular interactions in the development, course and outcome of immunological processes in animals in normal and pathological conditions.														
51		BD	EC	Practical Immunology	Purpose: know the methods of blood sampling for research from a donor and other animals, be able to prepare a hemophysiological solution for a serological reaction, be able to correctly determine the indicators of reactions, be able to conduct allergic, subcutaneous tests, vaccinations against infectious animal diseases. Contents: Diagnosis of immunopathological conditions in various diseases. Timely detection of animals with immunodeficiency, determination of their level of immunodeficiency. Methods for diagnosing and assessing the immune status. Methods for correcting various forms of immune disorders (immunotherapy).													v
52	Diseases of the Genitals of	BD	UC	Veterinary Obstetrics and	Purpose: Knowledge of the anatomical structure of the reproductive apparatus of animals, especially during puberty and	5						v		v				

	Animals, Reproduction Biotechnology and Radiation Safety			Gynecology I physiological maturation, insemination, mating and birth, physiological, pathological conditions that occur in the animal's body in the last stages from birth, the provision of veterinary obstetric care, the ability to provide assistance with various diseases of newborns, inflammation of the udder, treatment, education and prevention. Contents: Physiological bases of animal reproduction. The structure, functions of the reproductive apparatus of the breeding stock. The doctrine of the sexual act and the features of its passage in different types of animals. The development and location of the fetus in the uterus at different stages of pregnancy. pathology of pregnancy. Features of calving in each animal species. Features and essence of obstetric operations. Diseases of the newborn and breast.													
53		BD	HSC	Veterinary Obstetrics and Gynecology II Purpose: Teaching the understanding and classification of infertility and hereditary animal diseases. To be able to identify the causes, clinical signs, pathological changes in gynecological diseases of the reproductive system of animals; own modern methods of treatment and teach methods of diagnosis, prevention and treatment of diseases using new medicines.	5					v	v						

				<p>Contents: The concept of infertility and barrenness. Classification of infertility. Pathology of gynecological organs. Infectious and invasive diseases of the genital tract. Diseases of the uterus. Diseases of the ovaries and egg ducts. Andrological studies of manufacturers. Biotechnological research methods. Natural and artificial ways to stimulate the sexual activity of females. Selection and preparation for the use of a breeding sire.</p>														
54		BD	EC	Artificial Insemination of Agricultural Animals	<p>Purpose: The study of questions about the features of the manifestation of sexual cycles in different types of animals in the processes of fertilization, the structure and functions of the genital organs of females and males, the ability to diagnose estrus and artificial insemination of animals,</p> <p>Contents: Physiology of reproduction. The device of an artificial vagina, methods of preparation and collection. Sperm collection technique and sanitary biochemical assessment. Determination of the respiration coefficient of spermatozoa. Artificial insemination of cows, sheep and goats.</p>	4						v	v					
55		BD	EC	Embryotransplantation	<p>Purpose: mastering the knowledge of the selection of donors and recipients for embryo transplantation, synchronization and stimulation of the sexual cycles.</p> <p>Contents: Receiving embryos.</p>							v	v					

					Superovulation in donors. Evaluation of the quality and storage and transfer of embryos. Organization of work at points for transplantation of embryos in mares, cows, sheep, goats, pigs, dogs and cats													
56		BD	EC	Veterinary Radiobiology	<p>Purpose: Studying; biological effect of ionizing radiation, diagnostics, treatment of animals with radiation sickness.</p> <p>Contents: Dosimetry and radiometry of ionizing radiation. Determination of the dose from external exposure and internal contamination of animals with radioisotopes, determine the degree of radioactive contamination of food, feed, water;</p> <p>Methods of operation of the main types of radiometric, dosimetric instruments. Radiation injuries.</p> <p>Radiation burns. Fundamentals of radiation safety. Organization of work with radioactive substances.</p>	4								v				
57		BD	EC	Radiation Exposure of Animal	<p>Purpose: Studying the issues of protection of animals and their offspring from the harmful effects of ionizing radiation on their health, issues of productivity, quality, safety of products obtained from them.</p> <p>Contents: Carrying out veterinary anti-radiation measures. Radiation safety of products of animal origin Radiometric and radiochemical examination of objects of veterinary supervision. Organization and introduction of animal</p>									v				

					husbandry in the territory contaminated with radionuclides and technology for processing livestock products.														
58		PD	HSC	Industrial Practice II	Studied types of clinical examinations of animals, diagnosis, therapeutic procedures; treatment and prevention of diseases of animals, birds and fish; acquired competence in the field of diagnosis, treatment and prevention of infectious and non-infectious diseases of preventive measures.	3								v	v	v			
59	Clinic-Diagnosis Science	PD	UC	Veterinary Surgery I	Purpose: To study the topographic anatomy of organs and tissues of animals depending on the type and age, mastering the technique of surgical operations taking into account the topographic anatomy of organs depending on the type and age of animals; training and mastering the diagnosis of surgical pathology, carrying out therapeutic and preventive measures. Contents: General information on surgical operation. Sterilization of surgical equipment. Types of tumbling and fixation, injections and punctures of animals, theory of anesthesia, classification of anesthesia, modern equipment for separation and connection of tissues. desmurgy, immobilization bandages. Economic, cosmetic operations.	5								v	v				
60		PD	UC	Veterinary Surgery II	Purpose: To study the etiology, pathogenesis, clinical symptoms, rules	4								v	v				

				and methods of planning, organizing and conducting diagnostics and therapeutic measures for general surgical pathologies in animals, training and mastering high-quality surgical care for diseases with various complications. Contents: Treatment of injuries, surgical infections, various wounds. Carrying out measures for the surgical treatment of open and closed lesions of animal organs, tissue diseases, burns and frostbite, necrosis, gangrene and ulcers, furunculosis, carbuncle, eczema, dermatitis, bedsores, purulent fistula and skin diseases.														
61		PD	UC	Veterinary Surgery III	Purpose: To study surgical diseases of organs in various parts of the animal, eye diseases, anatomy and physiology of the eye, methods of eye research, hoof diseases, physiology of hoof anatomy etiology, pathogenesis, clinical signs, prognosis and treatment of hoof diseases, shoeing techniques. Contents: Surgical diseases of the head and neck. Diseases of the chest and withers. Diseases of the lumbar and abdominal region. Diseases of the pelvic region. Diseases of the genitourinary organs. Diseases of the limb area. Orthopedics. Ophthalmology. General information on the prevention and treatment of eye diseases.	4							v	v				
62		PD	UC	Internal	Purpose: Learns general methods of	4							v	v				

				<p>diseases of animals with clinical diagnostics I</p> <p>clinical research and methods of their application; be able to rationally and effectively apply physical and instrumental laboratory research methods; identify the symptoms of diseases and make a professional diagnosis; possession of medical thinking; clinical, laboratory and instrumental methods of animal research.</p> <p>Contents: Safety precautions when working with animals. General prevention and therapy for internal diseases of animals, methods and means of physiotherapy and physioprophylaxis, Therapeutic technique. Individual and group methods of giving drugs. Methods for prescribing drugs. Injections. Subcutaneous, intramuscular, intravascular administration of drugs. Probing, enemas.</p>														
63		PD	UC	<p>Internal diseases of animals with clinical diagnostics II</p> <p>Purpose: The algorithm and criteria for choosing drug and non-drug therapy for animals with non-communicable diseases are being studied. The ability to apply therapeutic manipulations for the treatment of animals with diseases of various etiologies is instilled; use specialized veterinary equipment and instruments for the examination and treatment of animals.</p> <p>Contents: Diseases of the cardiovascular, respiratory, digestive</p>	4							v	v					

				systems. Diseases of the heart and blood vessels. Pneumonia, bronchopneumonia, bronchitis, inflammation of the larynx, trachea. Diseases of the scar, abomasum, books and nets. Liver diseases, hepatitis, hepatosis, diseases of the urinary system, inflammation of the kidneys, bladder, diseases of the blood and nervous system. Animal poisoning. Diseases with symptoms of colic.													
64	PD	UC	Internal diseases of animals with clinical diagnostics III	<p>Purpose: The knowledge of conducting a diagnostic study, clinical examination, preventive, treatment and diagnostic measures is mastered; the causes of occurrence, the mechanism of development, clinical and morphological manifestations, the study of diseases of internal organs and the whole organism of animals are considered;</p> <p>Contents: Metabolic and endocrine diseases. Ketosis, osteodystrophy, hypo and beriberi. Pancreatitis, hypo and hyperthyroidism. Anemia, white muscle disease. Disorders of mineral metabolism in animals. Protein and carbohydrate metabolism disorders. Biogeocenotic diagnostics. Non-communicable diseases of young animals, birds, fur-bearing animals. Dyspepsia, rickets, bronchopneumonia</p>	4							v	v				
65	PD	HSC	Industrial Practice III	Studies the issues of organizations and Economics of veterinary medicine, the	3					v			v	v	v	v	v

					work of veterinary pharmacies; helps to master practical skills in the diagnosis, treatment and prevention of non-infectious, surgical, obstetric and gynecological diseases, invasive and infectious diseases; acquire knowledge of the technique of pathoanatomic autopsy and disposal of animal corpses, as well as the production and implementation of animal slaughter, methods veterinary and sanitary expertise.													
66	Pathogenesis, Diagnosis, Treatment and Prevention of the Disease of Animals	PD	EC	Bird diseases	<p>Purpose: considers questions on the study of infectious, parasitic and non-infectious diseases of birds</p> <p>Contents: causes of diseases, clinical signs, pathoanatomical changes in diseases; knowledge of the development of methods for diagnosing, preventing and treating diseases, using modern diagnostic equipment and new drugs.</p>	4					v	v	v	v				
67		PD	EC	Particularly dangerous and quarantine diseases of poultry	<p>Purpose: principles of treatment of anti-epizootic, preventive measures in order to eliminate especially dangerous diseases of birds.</p> <p>Contents: He studies the epizootic situation in the world on especially dangerous diseases and measures to prevent their introduction into the Republic of Kazakhstan. Causes of occurrence, mechanism of development, clinical and morphological</p>						v	v		v				

					manifestations of especially dangerous and quarantine diseases of poultry															
70		PD	EC	Forensic Veterinary Medicine	<p>Purpose: Formation of knowledge about forensic veterinary examination, the use of the whole complex of veterinary knowledge, special research methods as scientific and applied methods of evidence for solving specific problems of forensic veterinary examination.</p> <p>Contents: Veterinary procedural bases and expertise documentation, special part: - forensic thanatology, forensic traumatology, forensic toxicology, forensic obstetrics, forensic examination of case materials, forensic deontology.</p>	4					v						v	v		
71		PD	EC	Comparative pathomorphological diagnosis of animal diseases	<p>Purpose: The study of the features of the topographic anatomy of animals and the procedure for the methods of dissection of animal corpses</p> <p>Contents: Features of taking pathological material for research. Pathological diagnostics of viral, bacterial diseases and mycoses, protozooses and helminthiases of animals. Autopsy of corpses and execution of relevant documentation.</p>						v						v	v		
72		PD	EC	Diseases of Dog and Cat	<p>Purpose: Deep knowledge of infectious, parasitic and non-contagious diseases of dogs and cats</p> <p>Contents: Causes of diseases of dogs and cats, clinical signs, pathoanatomical changes, diagnostic methods, modern</p>	4						v	v	v	v					

					methods of treatment, organization of preventive measures.													
73		PD	EC	Cynology	<p>Purpose: Ability to use machinery and various methods of breeding dogs</p> <p>Contents: Dog care with the necessary tools and equipment. Feeding dogs depending on age, breed and rules of use. Participation in anti-epizootic activities under the guidance of veterinary specialists. Ways to prepare dogs with a course of general training.</p>						v							v
74	Clinical and Epizootological Sciences	PD	UC	Epizootology and infectious diseases of animals I	<p>Purpose: The goal is to study the causes of pathogens, the pathogenesis of epizootic diseases of farm animals, including especially dangerous diseases common to animals and humans, and to master the clinical signs of the disease, diagnosis, differential diagnosis, therapeutic and preventive measures.</p> <p>Contents: formation of an idea of the epizootic patterns of the emergence and spread of infectious animal diseases, the use of methods to combat the disease in the focus of an infectious disease, the implementation of preventive measures, the correct examination of the results of clinical and laboratory studies in determining the type of disease, individualization.</p>	5					v			v				v
75		PD	UC	Epizootology and infectious diseases of animals	<p>Purpose: identification of an epizootic situation associated with infectious diseases, control, evaluation of the results of anti-epizootic measures taken</p>	4					v			v				v

				II	and the use of epizootic forecasting methods. Contents: epizootic research and preparation of its act, development of a plan for nosological and epizootic diagnostics and recreational measures for an infectious disease, organization and implementation of quarantine and restrictive measures, vaccination of animals, obtaining pathological material for sending to the laboratory, detection of infectious diseases of ruminants, pigs, young animals, poultry, carnivores, bees and fish, experimental study of the patterns of the causes of their occurrence, bacteriological, virological, serological and allergic studies of infectious diseases, implementation of disinfection and deratization measures.													
76		PD	UC	Parasitology and Invasive Diseases I	Purpose: Own intermediate relations between the parasite and the host, the incidence of parasites and pathological changes caused in animals; classification and structure of pathogens, distribution, etiology, transmission routes, pathogenesis, clinical signs, measures for the treatment and prevention of invasive diseases Contents: Common to several foxes, definition, geographical distribution, history of study and evolution of parasitic diseases of ruminants, pigs,	5					v	v		v				

				<p>young animals, poultry, carnivores, bees and fish.</p> <p>Intermediate relationship between parasite and host. Pathological changes caused by parasites in animals. Classification and structure, development of pathogens. Methods for the detection and treatment of invasive diseases with modern methods, preventive measures</p>													
77	PD	UC	Parasitology and Invasive Diseases II	<p>Purpose: Own the pathogen, intermediate host, clinical signs of parasitic diseases in animals caused by ticks, diagnosis, the use of modern medicines, preventive and control measures</p> <p>Contents: Arthropods-arachnoentomology. Larval entomosis. zoophilic flies. Bloodsuckers. Arachnology. Ixodides, argazids, gamasoid mites. Veterinary protosology. Piroplasmosis and babesioidosis in animals. Animal coccidiosis. Mastigophoroses of animals. Prokaryotes and the diseases they cause.</p>	5					v	v		v				
78	PD	UC	Veterinary Sanitary Expertise I	<p>Purpose: Studying the methods of sanitary and hygienic research of food products and raw materials of animal origin, as well as determining the veterinary and sanitary safety of products.</p> <p>Contents: rules for veterinary care of slaughter animals during their</p>	4					v				v	v		

				preparation, transportation, acceptance, maintenance and pre-slaughter preparation at meat processing enterprises; the structure of meat processing enterprises, the basics of technology and hygiene in the processing of slaughter animals; organization and methodology of post-mortem veterinary sanitary examination of organs and carcasses of healthy animals, as well as patients with infectious, parasitic and non-contagious diseases, with subsequent veterinary and sanitary assessment													
79		PD	UC	Veterinary Sanitary Expertise II	<p>Purpose: Studying the methods of veterinary and sanitary examination of milk, dairy products, eggs, fish, honey and products of plant origin, as well as veterinary and sanitary control and examination during the export and import of animals, products and raw materials of animal origin</p> <p>Contents: fundamentals of technology and veterinary and sanitary examination of raw materials of animal origin, milk, dairy products, eggs, fish and honey; veterinary and sanitary examination of plant products; veterinary and sanitary control and examination when importing animals, products and raw materials of animal origin; veterinary and sanitary</p>	5					v					v	v

					control and examination during the export of animals, products and raw materials of animal origin; food protection from harmful environmental factors; veterinary and sanitary examination in forensic and investigative practice.													
80		PD	HSC	Industrial Practice IV	Helps to master the skills of drawing up a plan of medical and preventive measures; transportation, reception and delivery of slaughtered animals and birds, preparing them for slaughter; master the methods of research and conducting veterinary and sanitary examination of poultry, fish and animal products; acquire the ability to be competent in the field of veterinary pharmacy, technology, standardization and certification of veterinary drugs, examination of the quality of products of animal and vegetable origin.	4				v			v			v	v	v
81	Module of New Professional Competencies Acquisition	BD	EC	Veterinary Customs	Purpose: to master the rules of customs control and state veterinary and sanitary control by specialists of customs and border veterinary points in accordance with the Customs Code of the Republic of Kazakhstan, the procedure for conducting state veterinary and sanitary control of goods under veterinary control when crossing the state border. Contents: The procedure and conditions for the movement of goods under veterinary	4			v							v	v	v

				control across the customs border, stay and use in the customs territory or outside it, the procedure for performing customs operations related to the arrival of goods under veterinary control into the customs territory, departure. from the customs territory, their temporary storage, customs declaration and export abroad.															
82		BD	EC	<p>Veterinary and sanitary control at the border and transport</p> <p>Purpose: ensuring the implementation of veterinary and sanitary control of students over controlled goods passing by various modes of transport, and training in veterinary and sanitary supervision of animals, their products, raw materials at state borders by customs.</p> <p>Contents: The main issue in the transportation of animals, products and combustible raw materials by all modes of transport is the implementation of work to prevent the spread of diseases, veterinary and sanitary requirements for transportation. All of the above tasks are to protect against the penetration of pathogens of infectious diseases from abroad into the territory of the Republic of Kazakhstan. Transit of the veterinary service on the transport of the Republic of Kazakhstan and internal transport within the republic and veterinary and sanitary supervision.</p>	4												v	v	v

83		BD	EC	Biological safety of imported animals	<p>Purpose: The study by students of biological safety and diseases of animals sent for export, the causes of the disease, clinical signs, pathological changes in the disease, a holistic education about the knowledge of modern diagnostic equipment, new vaccines, medicines, methods of diagnosis, prevention and treatment of diseases.</p> <p>Contents: Biological safety of animals sent for export. Requirements, rules of the Law of the Republic of Kazakhstan "On Veterinary Medicine". State control, supervision of compliance with requirements in the field of biological safety. Protection of the territory of the Republic of Kazakhstan from the importation and spread of infectious and exotic animal diseases from other states. Implementation of measures to prevent and combat diseases, with who are quarantined</p>	4												v	v	v
84	Module of Final Certification	ChD	EC	Pre-degree or Industrial Practice	It deepens and strengthens the knowledge and skills formed in the course of theoretical training; allows you to: acquire and improve the necessary professional skills; perform research work for writing a thesis; acquire initial practical experience in the specialty being studied	10					v			v				v		v
85		ChD	HSC	Writing and	The analysis of the status of the issue,	8					v	v	v	v	v	v	v	v	v	v

				Defending at the urgency and novelty of the decision Diploma being taken; gives an analytical Thesis, overview on the topic of the thesis, the Diploma presentation of the methods and results Project or of their own research; a description of Preparing and measures of ecological safety of the Passing a object, safety of life, gain the ability to Comprehensive conclude and conclusion; and Exam suggestions of enterprises; to justify and prove the effectiveness of the adopted technical solution.														
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5. Summary table showing the volume of loans disbursed by modules of the educational program

Training course	Semester	Number of modules being	Number of subjects studied			Number of credits KZ					In hours	Total credits KZ	Number	
			OK	BK	KB	Theoretical training	Physical Training	Educational practice	Production practice	Final certification			exam	diff.credit
1	1	4	4	1	1	28	2				900	30	5	1
	2	3	2	1	3	27	2	1			900	30	6	2
2	3	5	1	3	4	28	2				900	30	5	1
	4	6	2	3	2	25	2		3		900	30	6	2
3	5	3		4	2	30					900	30	6	-
	6	3	-	3	2	27			3		900	30	3	1
4	7	4	-	4	2	27			3		900	30	6	1
	8	4	-	5	1	26			4		900	30	6	1
5	9	2	-	3	1	20					600	21	5	-
	10	3	-	-	4	20					600	21	5	-
	11	1	-	-	-	-			10	8	600	18	-	1
Total		32	9	28	21	266	8	1	21	12	9000	300	53	10

6. STRATEGIES AND METHODS OF TRAINING, MONITORING AND EVALUATION

<p>Learning Strategies</p>	<p>Student-centered learning: the learner is the center of teaching/learning and an active participant in the learning and decision-making process. Practice-oriented learning: focus on the development of practical skills.</p>
<p>Teaching methods</p>	<p>Conducting lectures, seminars, various types of practices:</p> <ul style="list-style-type: none"> • application of innovative technologies; • problem learning; • case study; • work in a group and creative groups; • discussions and dialogues, intellectual games, competitions, quizzes; • projects, benchmarking; • presentations; • rational and creative use of information sources: • multimedia educational programs; • electronic textbooks; • digital resources. <p>Organization of independent work of students, individual consultations.</p>
<p>Monitoring and assessing the achievability of learning outcomes</p>	<p>Current control on each topic of the discipline, control of knowledge in classroom and extracurricular activities (according to the syllabus). Assessment Forms:</p> <ul style="list-style-type: none"> • survey in the classroom; • testing on the topics of the academic discipline; • test papers; • of independent creative works; • discussions; • trainings; • colloquia; • essays, etc. <p>Midterm control at least two times during one academic period within the same academic discipline. Intermediate certification is carried out in accordance with the working curriculum, academic calendar. Conduct forms:</p> <ul style="list-style-type: none"> • exam in the form of testing; • oral exam; • a written exam; • combined exam; • protection of projects; • protection of practice reports. <p>Final state certification.</p>

EDUCATIONAL AND RESOURCE SUPPORT OF THE EP

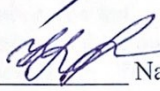
<p>Information Resource</p>	<p>Educational Information Center</p>
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<p>Center</p>	<p>The structure of the OIC includes 6 subscriptions, 16 reading rooms, 2 electronic resource centers (ERC). The network infrastructure of the JRC is based on 180 computers with Internet access, 110 workstations, 6 interactive whiteboards, 2 video doubles, 1 video conferencing system, 3 A-4 format scanners, 3. JRC software - AIBS "IRBIS-64" under MS Windows (basic set of 6 modules), stand-alone server for uninterrupted operation in the IRBIS system. The library fund is reflected in the electronic catalog available to users on the website http://lib.ukgu.kz online 24 hours 7 days a week. Thematic databases of our own generation have been created: "Almamater", "Proceedings of scientists of the South Kazakhstan State University", "Electronic Archive". Online access from any device 24/7 via an external link http://articles.ukgu.kz/ru/ppp. 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", "SKGU in Print", "Readers" "SKU". The JIC provides its users with 3 options for accessing its own electronic information resources: from the “Electronic Catalog” terminals in the catalog hall and divisions of the JIC; through the information network of the university for faculties and departments; remotely on the library website http://lib.ukgu.kz/. Open access to international and republican resources: "SpringerLink", "Polpred", "Web of Science", "EBSCO", "Epigraph", to electronic versions of scientific journals in the public domain, "Zan", "RMEB", "Adebiet" , Digital library "Aknurpress", "Smart-kitar", "Kitar.kz", etc. For people with special needs and disabilities, the library website has been adapted to the work of visually impaired users</p>
<p>Material and technical base</p>	<p>Providing OP , Lecture audiences -4: Auditoriums for laboratory classes - 7; Audiences for practical classes - 4; Computer class - 4: Interactive whiteboard - 4 Educational - auxiliary premises: Zhaskeshu agricultural complex in the village of Zhaskeshu, Tulkuba district, Turkestan region, Regional department RSE «Republican veterinary laboratory» of veterinary control and supervision committee AM RK , “Nur-Ai 5” LLP, Laboratory "Analytical Chemistry", Laboratory "Physical Chemistry"</p>

APPROVAL SHEET

on the Educational program "6B09111-Veterinary medicine"

Director of DAA  Naukenova A.S.

Director of DASc  Nazarbek U.B.

Director of DE&C  Bazhirov T.S.

REVIEW

on the educational program " 6B091-Veterinary»,
developed at SKU. named after M. Auezov, Shymkent

The peer-reviewed educational program 6B09111- Veterinary medicine based on the competence approach is aimed at the formation of qualified veterinarians who are able to quickly adapt to the changing situation in the labor market, on the one hand, and continue pre-professional and career growth, as well as improve their qualifications, on the other, which meets the modern requirements of training during all life. This competence-based approach enables each student to form their own professional growth and career.

As a result, the employer will be satisfied with the graduate's education, and the graduate will be able to improve his educational trajectory throughout his life, responding to changes in the labor market. One of the advantages of the educational program is taking into account the requirements of employers in the formation of disciplines, the trajectory of the profiling cycle

The educational program includes the following components.

- 1 name of the educational program
- 2 passport of the educational program
- 3 learning outcomes by discipline
- 4 the content of the educational program within the framework of the types of modules, indicating the breakdown of each module the competencies formed, the volume of academic credits, the period of study, the components of the module formed by the competencies, the volume in academic credits the period of study
- 5 map of competency, reflecting the competencies of disciplines in the context of modules
- 6 summary table reflecting the volume of disbursed loans in the context of modules of the educational program

The content of the educational program is flexible and allows for differentiated training of veterinary specialists at the request of employers.

Meanwhile, it would be necessary to adapt some EP disciplines in accordance with the requirements of the OIE, as well as expand the base of field classes using research and production centers, an enterprise and a base for passing industrial practices.

In general, the educational program developed by the Department of Veterinary Medicine of the Agrarian Faculty meets the basic requirements of the state general educational standard of higher education of the Republic of Kazakhstan will contribute to the formation of general cultural and professional competence in the educational program 6B09111- Veterinary medicine

The deputy director of regional department
RSE «Republican veterinary laboratory»
of veterinary control and supervision committee AM RK



Kaltaev A.Zh.

10.02.2013

A. Director of SME Shymkent city «Veterinary services»



Mergenboev Zh.B.

10.02.2013

Expert conclusion

on the educational program «6B09111-Veterinary medicine »,

Relevance of EP Graduates in the field of veterinary medicine in the professional activity of a specialist veterinarian in the educational program 6B09111-Veterinary medicine at the end of training can successfully work:in organizational and technological activities-general clinical and laboratory examination of sick animals and birds, including as a specialist in veterinary laboratories; lifetime and post-mortem diagnostics of infectious, non-infectious diseases and poisoning of animals, birds and fish, appointment and treatment of all types of animals and birds; veterinary and sanitary expertise of animal products;in production and management activities-control over compliance with veterinary legislation on the territory of the Republic of Kazakhstan.

Compliance of the EP with the formulated goals, consistent with the mission of the University, the requests of employers and students preventive measures aimed at preventing the spread of infectious and non-infectious diseases of animals, birds and fish,as well as anthroozoonosis; training and monitoring of compliance with veterinary staff and other employees of animal husbandry, poultry and fish farming, in control activities-conducting general clinical and laboratory research of sick animals; diagnostics of infectious, invasive and non-infectious diseases of animals, birds and fish, based on the study of their etiology, pathogenesis, clinic, in project activities - participation in the development of design and estimate documentation for the construction of food, meat and dairy industry, retail chain, veterinary hospitals, stations, laboratories,pharmacies, livestock facilities;in research activities-conducting research and development, experiments in research institutions of veterinary and biological areas;in educational (pedagogical) activities - teaching work in higher and secondary special educational institutions in the specialty profile.

Compliance with the National qualifications framework of the Republic of Kazakhstan the main tasks of professional activity of graduates are: the prevention and elimination of contagious and non-contagious diseases of animals, birds and fish;veterinary activities for the development of livestock and improve animal productivity;ensuring the production of benign in veterinary and sanitary products and raw materials of animal origin;the protection of the population from disease, common to humans and animals; protection of the country's territory from the introduction of infectious diseases; compliance with veterinary and sanitary rules in the production and sale of biologics, medicines.

Reflection in the EP of training results and competencies based on the Dublin descriptors laid down in professional standards/ industry frameworks, objects of professional activity educational program 6B09111-Veterinary medicine all types of economic entities of agricultural production; transport, circuses, racetracks, public service, tribe association; hospitals, veterinary pharmacies; laboratories, zoos, reserves, meat processing plants; bio-processing plants and other enterprises for the production and quality control of biological products; institutions for wholesale and retail sale of animal products, poultry, fish farming, beekeeping; institutions of the state veterinary service;research institutes and organizations of veterinary, biological profile;military veterinary service; educational veterinary institutions.

Taking into view the above, we offer to increase the output of students in the educational program 6B09111-Veterinary medicine and provide them with training according to the EP, to this we give our conclusion.

Head of the expert commission,
dean of the faculty of Agriculture, c.b.s

Elibaeva G.I.

Members of the expert commission:
Head of the department " Veterinary medicine "
c.v.s, docent

Zhanbyrbayev M.

Head of the department
"Crop and livestock" c.a.s, senior lecturer

Fayzullaeva L.A.

Professional standard	
Name of the Professional Standard:	Bird breeding
Section, section, group, class and subclass names according to	<p>A Agriculture, forestry and fisheries</p> <p>01 Crop and animal husbandry, hunting and provision of services in these areas</p> <p>01.4 animal husbandry</p> <p>01.47 Farm poultry breeding</p> <p>01.47.1 Poultry farming for meat, breeding poultry and young animals</p> <p>01.47.2 egg production</p> <p>01.47.3 Mixed production, meat and egg</p> <p>01.47.4 Activities of hatchery and poultry stations</p> <p>T Activities of households employing domestic workers; activities of households producing goods and services for their own consumption</p> <p>75.0 Veterinary activities</p> <p>75.00 Veterinary activities</p> <p>75.00.0 Veterinary activities</p>