Model of a graduate in the educational program 6B09101- "Veterinary Medicine"

The graduate model is a system of qualities of the personality of a specialistgraduate of KazNARU. We consider the competence of the future specialist to be the main system-forming element of the graduate model of a modern university.

In 2024, compared to 2023, there is an increase in the number of students - 1477 and 1449, respectively. The department trains 7 master's students and 7 PhD students.

The employment rate of specialist degree graduates in 2023 is 61%, master's degree graduates 87%, and doctoral degree graduates 91%. In 2024, the share of employed specialist degree graduates was 55%, master's degree graduates - 50%, and doctoral degree graduates - 75%.

For the full implementation of educational activities, the department is provided with highly qualified specialists. Here, 3 doctors of veterinary sciences, 4 candidates of veterinary sciences, 3 PhDs, 3 assistants carry out their activities. The degree rate is 76.9%.

The department regularly participates in auditing and updating educational programs and curricula in order to optimize the educational process taking into account the needs of employers.

- The main objectives of the graduate model are:

- ensuring high-quality training of qualified competitive specialists based on a combination of advanced innovative technologies with scientific and practical activities;

- meeting the needs of employers for highly qualified specialists;

- organizing and conducting fundamental and applied scientific research;

- training personnel with higher professional education;

- preserving and enhancing the moral, cultural and scientific values of society, patriotic education of youth.

Much attention is paid to obtaining professional competencies and practical knowledge by students. Each student has the opportunity to perform laboratory work and practical classes, which are provided with the necessary materials, tools and equipment. At the same time, the scientific base of the university's innovation center (Kazakh-Japanese Innovation Center) is actively used in the educational process. Educational and methodological complexes have been developed for all disciplines and entered into the Platonus system, which ensures the availability of developments for students, teaching staff, and employers.

Representatives of employers participate in the implementation of the educational program, in particular, in compiling a catalog of elective disciplines and conducting industrial internships for students: State Institution "Almaty Regional Territorial Inspectorate" Agro-Industrial Complex of the Ministry of Agriculture of the Republic of Kazakhstan, "Agrofirm Dinana Ranch" LLP, State Institution "T.Ryskulovskaya District Territorial Inspectorate" of Zhambyl Region KVKiN MAS RK, Kordai district veterinary laboratory of the Zhambyl regional branch of the RSE on the right of economic management "RVL" of the Ministry of

Agriculture of the Republic of Kazakhstan, "Zhanakorgan district department of veterinary science and veterinary control", "The apparatus of the Head of the Ornek aul district of the Zhambyl district of the Zhambyl region", JSC "Kazakh Research Veterinary Institute", NPP "Antigen" LLP, TOO "Kazakh Canine Feline Center "U Lukomorye", Zhezkazgan interdistrict veterinary laboratory of the Karaganda regional branch of the RSE on the right of economic management "RVL" of the Ministry of Agriculture of the Republic of Kazakhstan, Almaty branch of the Republican State Enterprise on the Right of Economic Management "National Reference Center for Veterinary Medicine" of the Ministry of Agriculture of the Republic of the RSE on the right of economic management "RVL" of the Republic of Kazakhstan, Almaty regional branch of the RSE on the right of economic Management "National Reference Center for Veterinary Medicine" of the Ministry of Agriculture of the Republic of Kazakhstan, Almaty regional branch of the RSE on the right of economic management "RVL" of the Ministry of Agriculture of the Republic of Kazakhstan, Almaty regional branch of the RSE on the right of economic management "RVL" of the Ministry of Agriculture of the RSE on the right of economic management "RVL" of the Ministry of Agriculture of the RSE on the right of economic management "RVL" of the Ministry of Agriculture of the RSE on the right of economic management "RVL" of the Ministry of Agriculture of the RSE on the right of economic management "RVL" of the Ministry of Agriculture of the RSE on the right of economic management "RVL" of the Ministry of Agriculture of the Republic of Kazakhstan, LLP Veterinary Sanitary Laboratory "Nur Ai-5", Agricultural Production Cooperative "Almaty Breeding Farm".

In order to implement and improve the quality of the educational program, to ensure close links with production, and also for the purpose of integrating science, education and production, the practice of hiring scientists from research institutes and enterprises as part-time workers is being implemented: Scientific and Production Center "Microbiology and Virology", Research Institute of Biological Safety Problems. For the successful implementation of educational programs of doctoral studies, highly professional domestic and foreign (Turkey, Russia, Latvia) scientists are involved, who train scientific personnel for the veterinary industry.

	6B09104-Veterinary
Be able to:	conduct diagnostics, differential diagnostics, treatment and prevention of animal diseases; veterinary and sanitary examination of products of animal and plant origin; postmortem examination and draw up a conclusion on the cause of death of an animal, bird and fish, draw up a protocol of pathological examination; correctly use medical-technical and veterinary equipment, tools and equipment, conduct educational and upbringing work:
Know and understand:	classification of diseases, specifics of their etiology and symptoms, modern methods of intravital and postmortem diagnostics and differential diagnostics, new effective methods of prevention and treatment, fundamentals of technology and hygiene in the production of livestock, poultry and fish products; fundamentals of biosafety; fundamentals of food safety classification of diseases, the specifics of their etiology and symptoms, modern methods of intravital and postmortem diagnostics and differential diagnostics, new effective methods of prevention and treatment, fundamentals of technology and hygiene in the production of livestock, poultry and fish products; fundamentals of biosafety; fundamentals of food safety;

Model of a graduate

specific morphological, determining physiological In and cytochemical features of the structure of an animal organism in species, breed and age aspects; in studying the features of biological properties of pathogens, the infectious process, identifying the isolated culture and making a diagnosis; organizing preventive, quarantine and restrictive veterinary sanitary measures; conducting and epizootological examinations, diagnosing infectious diseases and conducting bacteriological, virological and serological studies for infectious and parasitic diseases, disinfection and deratization; veterinary and sanitary supervision during procurement, production, sale, storage and export, import and transit of animals, products and raw materials of animal origin; conducting laboratory, pathological, pathohistological studies, analysis and interpretation of research results, pathological autopsy of animal corpses, drawing up an autopsy report; in mastering modern methods of clinical, laboratory and special studies of non-communicable diseases; in matters of the mechanisms of action of various groups of drugs; in matters of application of innovative methods of diagnostics, treatment and prevention of obstetric-gynecological and surgical diseases of animals, in matters of effective application of modern methods, devices and equipment in solving problematic issues in the field of veterinary medicine.

Be competent in the following matters: