

Non-Commercial Joint-Stock Company
«Kazakh National Agrarian Research University»

AGREED

Chairman of the Management Board
«Kazakh Scientific Research Institute
of Animal Husbandry and Feed
Production» LLP


A. Torekhanov
« 05 » 04 2023

APPROVED

Chairman of the Board – Rector

A. Kurishbaev

« 23 » 2023




EDUCATIONAL PROGRAM

«8D08201-Technology of production of livestock products»

Awarded degree: Doctor of Agriculture in the educational program
«8D08201 - Technology of production of livestock products»


Almaty, 2023

Approved at the meeting of the Department «Zooengineering»
Protocol № 08, «17» 03 2023

Head of the department  Sh. Adylkanova

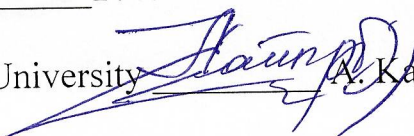
Considered at meetings Academic Committee of the Faculty of «Zooengineering and food production technology»

Protocol № 04 «24» 03 2023

Chairman of the AC of the faculty  Ye. Baimazhi

Reviewed by the Educational Methodological Council of the University and recommended to the Academic Council

Protocol № 03 «28» 03 2023

Chairman of the EMC of the University  A. Kaiyrbaeva

The educational program was approved at the meeting of the Academic Council of KazNARU

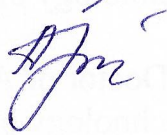
Protocol № 11, «05» 04 2023

Developers:

Dean of the Faculty

 B. Yerenova

Head of Department

 Sh. Adylkanova

Teacher:


Candidate of Agricultural Sciences., Assoc. professor

 Ye. Baimazhi

Doctoral student

 E. Ablaeva

Graduate of 2022

 B. Sansyzbaeva

Workaday:

Chairman of the Management Board
«Kazakh Scientific Research Institute
of Animal Husbandry and Feed Production» LLP

 A. Torekhanov

Agreed:

Head of the Educational Programs Design Office

 Zh. Kussainova

Field of application

Designed for training PhD doctoral students in the educational program 8D08201 - "Technology for the production of livestock products" in the NAO "Kazakh National Agrarian Research University"

Regulations

«On Education» The Law of the Republic of Kazakhstan dated 27 July, 2007 No. 319-III;

Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 №2;

Classifier of training programs for personnel with higher and post-graduate education. Order of the Minister of Education and Science of the Republic of Kazakhstan of October 13, 2018 No. 569;

Standard Rules for the activities of educational organizations implementing educational programs of higher and (or) postgraduate education. Order of the Minister of Education and Science of the Republic of Kazakhstan of October 30, 2018 No. 595;

Rules of the organization of the educational process on credit technology of training. Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 12, 2018 No. 563;

Algorithm of inclusion and exclusion of educational programs in the Register of educational programs of higher and postgraduate education. Order of the Minister of Education and Science of the Republic of Kazakhstan No. 665 dated December 4, 2018;

Order No. 106 of the Minister of Science and Higher Education of the Republic of Kazakhstan dated October 12, 2022. Rules for keeping the register of educational programs, implemented by the organizations of higher and (or) postgraduate education, as well as the grounds for inclusion in the register of educational programs and exclusion from it.

Professional standard. Appendix No. 72 to the order of the Deputy Chairman of the Board of the National chamber of entrepreneurs of the Republic of Kazakhstan "Atameken" dated 11.12.2018 No. 339

to consider the question of the possibility of the implementation of the project in the conditions of the existing state of affairs.

1. Introduction

The project is based on the Law of the Republic of Kazakhstan dated 17 July 2007 No. 117-VI.

It is necessary to take into account the fact that the project is aimed at the implementation of the project in the conditions of the existing state of affairs.

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1. Passport of the educational program

Code and classification of the field of education	8D08 Agriculture and bioresources
Code and classification of training areas	8D082 - Livestock
Code and name of educational program	8D08201- Technology for the production of livestock products
Type of educational program	acting
The purpose of the educational program	Training of competitive specialists with high professional qualifications, in demand in the agro-industrial complex and the domestic, global scientific and educational space.
Level according to (I S C E)	8
Level according to NQF	8
Level according to SQF	8
The number of applications for licenses for the training	KZ89LAA00031870 05.08.2021ж. (№009 27.03.2019) (Application number No. 003)
The period of validity of accreditation	Certificate №AB3904 IAAR 22.04.2022 -21.04.2027
Degree awarded	PhD in Education Program 8D08201- Livestock Production Technology(scientific and pedagogical direction)
Learning outcome	Table 2
List of qualifications and positions	A graduate can carry out professional activities in the following areas: -teaching activities; - specialist in laboratory selection; - researcher on animal husbandry in scientific institutes; - specialist in the Department of agriculture; - specialist in the Ministry of agriculture; - Teacher of animal husbandry, breeding of agricultural animals, feeding of agricultural animals in secondary special and higher educational institutions - Research associate in research organizations
Professional field of activity	Educational organizations, including universities, research organizations, all branches of animal husbandry, organizational and managerial activities, experimental research, research and educational activities on the technology of production of animal products. Doctor of philosophy (PhD) in the specialty 6D08201 - "technology of production of animal products" can carry out teaching and scientific activities in the system of higher and postgraduate education and scientific sphere. The objects of professional activity of graduates are: - state institutions of the Ministry of agriculture, livestock farms of various forms of ownership, poultry farms, racetracks, breeding farms and breeding plants, zoos, scientific laboratories, reserves, livestock companies, and vocational schools

Field and object of professional activity	<p>The objects of professional activity of doctors are:</p> <p>Doctors of philosophy (PhD) – state bodies in the field of agricultural organization, organizations of higher and special education, research institutes, research and production institutions.</p> <p>Doctors of philosophy (PhD) in the specialty 6D08201 - "technologies of production of animal products" can perform the following professional activities:</p> <ul style="list-style-type: none"> - production and management; - organizational and technological; - research; - pedagogical.
Functions of professional activity	<p>Educational program 8D08201-technology of production of animal products includes 4 (four) educational paths:</p> <p>Educational program # 1 "Technology of primary processing and quality control of sheep products". The purpose of the educational program is to develop methods for evaluating sheep production, methods for evaluating products in technological production, types of technical control, quality control technology, as well as experience in sheep breeding, to study new methods for sheep breeding</p> <p>Educational program # 2 "technology of milk and beef production". The purpose of the educational program is to present to doctoral students the technology of keeping cows on large farms and dairy, dairy and meat complexes, planning, construction and reconstruction of dairy and meat farms, a new system of feed and dairy yards, dairy and meat farms, as well as to demonstrate methods and methods of conducting experimental and research work, as well as for doctoral students.</p> <p>Educational program # 3 "technology of horse breeding and production of organic products in horse breeding". The purpose of the educational program is to provide doctoral students with the current state of production of kumys, breeding stock, breeds of dairy horses, milk production of mares and evaluation of offspring, evaluation of dairy mares and quality of kumys.</p> <p>Educational program no. 4 "Innovative methods of increasing the productivity of poultry". The purpose of the educational program is to develop methods for evaluating poultry products produced by doctoral students, methods for evaluating products in technological production, technical control, improving quality control technology, as well as experiments and new methods for poultry production.</p>
Types of professional activity	<p>Areas of training 8D08201-technology of production of livestock products can perform the following professional activities:</p> <p>1. Design and technological:</p> <ul style="list-style-type: none"> - organizational, technological services, management activities, management and marketing at production

	<p>facilities in various sectors of animal husbandry and biotechnology; conducting research on design, organizational activities in various areas of animal husbandry.</p> <p>2. Organizational and management: higher and postgraduate educational institutions, research institutes, various agricultural organizations (firms, enterprises, farms), social and entrepreneurial complexes (SEC), local and Republican agricultural management bodies, livestock and poultry farms; Agriculture; management institutes; animal feed processing enterprises; Zoo; racetrack; industry laboratories, departments, departments; departments in local government structures</p> <p>3. Research and development: - conducting research work to increase the productivity of animals; - study and elaboration of measures for the conservation of local animal breeds; - organization of work and seasonal events in livestock facilities</p> <p>4. Scientific and pedagogical: - study of modern methods of teaching disciplines technology of production of animal products; - development of science-based methods for improving the skills of employees at all levels; - use of innovative teaching technologies in the process of pedagogical activity.</p>
Be competent:	<ul style="list-style-type: none"> - on the scientific organization of labor, computer methods of collecting, storing and processing information used in the sphere of his professional activity; - in legal matters for resolving disputes arising in the collective and other economic entities. -in the preparation and implementation of state mandatory standards of education, standard and working curricula of bachelor's, master's and doctoral courses in the specialty " technology of production of animal products»; - conducting training sessions in the disciplines of the specialty.

2. Learning outcomes for EP

Codes	Learning outcomes
RE 1	To know the methods of scientific research conducted in the conditions of a scientific laboratory and farms of various forms of ownership; to demonstrate knowledge and understanding of academic writing and apply them in the field under study.
RE 2	Apply theoretical and practical knowledge to solve problems arising in the process of studying the behavior and its relationship with their productivity of farm animals; recommend the most effective resource-saving technologies in the production of livestock products
RE 3	To argue and recommend to farms at a professional level modern and innovative technologies for the production and primary processing of animal raw materials, to introduce new methods of breeding and to organize breeding work using elements of computer programs to improve the efficiency of production in sheep and goat breeding
RE 4	To solve problems at a professional level in the field of cattle reproduction; to control the purposeful rearing of young animals; to improve milk production technologies, taking into account the peculiarities of its design; to organize the process of cattle identification by modern methods and to monitor the safety of livestock during their transportation
RE 5	Apply knowledge and understanding in carrying out breeding work, use modern genotypic assessment; recommend innovative technologies for reproduction of meat and dairy horses in the field of productivity
RE 6	To use modern technologies for the production of poultry products, to argue for the most effective innovative methods for improving the incubation qualities of eggs; to conduct breeding work with agricultural poultry at a professional level

3. The content of the educational program

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Date		Time		Location		Remarks	
1941	10/10	10:00	10:15	10:30	10:45	11:00	11:15
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1941	10/12	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/13	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/14	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/15	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/16	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/17	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/18	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/19	10:00	10:15	10:30	10:45	11:00	11:15
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1941	10/21	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/22	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/23	10:00	10:15	10:30	10:45	11:00	11:15
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1941	10/26	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/27	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/28	10:00	10:15	10:30	10:45	11:00	11:15
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1941	10/30	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/31	10:00	10:15	10:30	10:45	11:00	11:15

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Date		Time		Location		Remarks	
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1950	10/13	10:00	10:30	10:00	10:30	10:00	10:30
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1950	10/15	10:00	10:30	10:00	10:30	10:00	10:30
1950	10/16	10:00	10:30	10:00	10:30	10:00	10:30
1950	10/17	10:00	10:30	10:00	10:30	10:00	10:30
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1950	10/23	10:00	10:30	10:00	10:30	10:00	10:30
1950	10/24	10:00	10:30	10:00	10:30	10:00	10:30
1950	10/25	10:00	10:30	10:00	10:30	10:00	10:30
1950	10/26	10:00	10:30	10:00	10:30	10:00	10:30
1950	10/27	10:00	10:30	10:00	10:30	10:00	10:30
1950	10/28	10:00	10:30	10:00	10:30	10:00	10:30
1950	10/29	10:00	10:30	10:00	10:30	10:00	10:30
1950	10/30	10:00	10:30	10:00	10:30	10:00	10:30
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¹Note:

Department number	Abbreviated	Name of the Department
1	AAF	Accounting, audit and Finance
2	MOA	Management and organization of agribusiness
3	Law	Law
4	WRR	Water resources and reclamation
5	МИ	"Машиноиспользование" имени И.В. Сахарова
6	VT	Vocational training
7	MCAM	Mechanics and construction of agricultural machinery
8	AMT	Agrarian machinery and technology
9	ITMPH	Information technology, mathematics and physics
10	ESA	Energy saving and automation
11	LRI	Land resources and inventory
12	FRH	Forest Resources and Hunting
13	PPQ	Plant protection and quarantine
14	FL	Foreign languages
15	KRL	Kazakh and Russian languages
16	SSA	Soil science and agrochemistry
17	Ecol	Ecology
18	FVGNF	Fruit and vegetable growing and nut farming
19	Agr	Agronomy
20	BS	Biological safety
21	CVM	Clinical Veterinary Medicine
22	OSRB	Obstetrics, Surgery and Reproduction Biotechnology
23	MV	Microbiology and virology
24	VSEH	Veterinary and sanitary expertise and hygiene
25	FTS	Food technology and safety
26	BPFF	Beekeeping, poultry farming and fisheries
27	LPT	Livestock production technology
28	PhMB	"Physiology, Morphology and Biochemistry by N.O. Bazanova
29	HKCPK	History of Kazakhstan and culture of the peoples of Kazakhstan
30	PhES	Physical education and sport
31	MD	Military Department

Department	Amount	Account
1	100.00	General Fund
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4. Map of competence modules

Code comp retention	Module	Basic competencies	Learning outcome
KK1	Module 1. Research methodology	After studying the discipline, the doctoral student must be competent in the formulation and conduct of research, documentation, scientific activities, public speaking, participation in scientific events and their organization, patent search, protection of intellectual rights, formulation of goals, objectives related to the implementation of professional functions, making specific management decisions to achieve the goals; teaching activities; use of foreign languages to the extent necessary for the implementation of professional, research, teaching activities; work with regulations in the field of scientific experiment	<ul style="list-style-type: none"> - questions of application of effective innovative educational technologies of training, professional ethics of the teacher; assessment of the reached results; - the organization and management of activity of trained - - to possess the skills of management activities on the problems of animal husbandry, prospects for the development of high-tech industries and the formation of their account, on a modern scientific and theoretical basis. - - use knowledge in the field of animal husbandry to improve the planning and control of farms, effective interaction with specialists, decision support
		Professional competence	Learning outcome
KK2	Module 2. Technological system of sheep and goat production evaluation	be competent: in matters of methods of selection, feeding and maintenance of different age and sex groups of animals during the year and technologies of reproduction of the herd, rearing and exploitation of sheep.	<ul style="list-style-type: none"> to possess modern methods of evaluation of breeding qualities of sheep based on achievements in the field of cytogenetics, biotechnology, biochemical and population genetics; - application of methods of quality control of production at technology of its production - Completely new methods and

1. Introduction

Topic	Abstract	Main body	Conclusion
Topic 1	Abstract 1	Main body 1	Conclusion 1
Topic 2	Abstract 2	Main body 2	Conclusion 2
Topic 3	Abstract 3	Main body 3	Conclusion 3
Topic 4	Abstract 4	Main body 4	Conclusion 4
Topic 5	Abstract 5	Main body 5	Conclusion 5
Topic 6	Abstract 6	Main body 6	Conclusion 6
Topic 7	Abstract 7	Main body 7	Conclusion 7
Topic 8	Abstract 8	Main body 8	Conclusion 8
Topic 9	Abstract 9	Main body 9	Conclusion 9
Topic 10	Abstract 10	Main body 10	Conclusion 10
Topic 11	Abstract 11	Main body 11	Conclusion 11
Topic 12	Abstract 12	Main body 12	Conclusion 12
Topic 13	Abstract 13	Main body 13	Conclusion 13
Topic 14	Abstract 14	Main body 14	Conclusion 14
Topic 15	Abstract 15	Main body 15	Conclusion 15
Topic 16	Abstract 16	Main body 16	Conclusion 16
Topic 17	Abstract 17	Main body 17	Conclusion 17
Topic 18	Abstract 18	Main body 18	Conclusion 18
Topic 19	Abstract 19	Main body 19	Conclusion 19
Topic 20	Abstract 20	Main body 20	Conclusion 20
Topic 21	Abstract 21	Main body 21	Conclusion 21
Topic 22	Abstract 22	Main body 22	Conclusion 22
Topic 23	Abstract 23	Main body 23	Conclusion 23
Topic 24	Abstract 24	Main body 24	Conclusion 24
Topic 25	Abstract 25	Main body 25	Conclusion 25
Topic 26	Abstract 26	Main body 26	Conclusion 26
Topic 27	Abstract 27	Main body 27	Conclusion 27
Topic 28	Abstract 28	Main body 28	Conclusion 28

			technologies for the production of TWA products
KK3	Module 3. Technology of production of beef and milk	After studying the discipline, the doctoral student must be competent in teaching; use of foreign languages to the extent necessary for the implementation of professional, research, teaching activities; work with regulations in the field of scientific experiment, field and laboratory work	<ul style="list-style-type: none"> - To know the fodder base for dairy, dairy-meat and beef cattle breeding, selection of crops for fodder crop rotations, increasing yields. Technology of feeding of dairy, dairy-meat and meat cows. - own methods for the cultivation and selection of highly productive cows. Evaluation of the udder of cows for suitability for machine milking. - ability to critically analyze and evaluate modern scientific achievements, generate new ideas in solving research and practical problems; - to carry out the analysis on selection achievements on cattle breeding
KK4	Module 4. Technology of reproduction and rearing of horses	To be competent to perform the genetic evaluation of horses on the phenotype of the offspring, in conducting research on the reproduction and improvement of breeding qualities of the factory and local breeds of horses.	<ul style="list-style-type: none"> - be able to conduct scientific research in meat horse breeding; - to possess information in carrying out breeding work and introduction of scientific achievements in the conditions of the farms and other farms which are engaged in cultivation of horses of the meat direction of productivity - provide in conducting research works on reproduction and improve tribal qualities factory and local horse's breeds.
KK5	Module 5. Innovative technologies of poultry	Must be competent: in carrying out reproductive work with birds of different species in the conditions of innovation technology; in the practice	- to have knowledge of theoretical foundations of breeding, genetics and reproduction of

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		<p>of managing the work of shops, teams, laboratories; zootechnical and breeding accounting</p>	<p>farm poultry; organization of breeding work with poultry on the stud farms and breeding farms-reproducers; industry standards and regulations according to the production technology, zoohygiene and processing of poultry products</p> <ul style="list-style-type: none"> - apply methods for evaluation of the birds in the exterior, interior, and productivity as well as poultry products quality; - to evaluate modern methods and techniques of keeping, feeding, breeding and effective use of animals by the ability to conduct zoo technical assessment of birds.
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1. The first part of the report is devoted to a general description of the project and its objectives.	
2. The second part contains a detailed description of the methodology used in the study.	
3. The third part presents the results of the study and discusses their significance.	
4. The fourth part concludes the report and provides recommendations for further research.	
5. The fifth part contains a list of references and a list of figures and tables.	
6. The sixth part contains a list of appendices and a list of abbreviations.	
7. The seventh part contains a list of footnotes and a list of references.	
8. The eighth part contains a list of figures and tables.	
9. The ninth part contains a list of appendices and a list of abbreviations.	
10. The tenth part contains a list of footnotes and a list of references.	

5. Summary table, reflecting the amount of credits disbursed in the context of the modules of the educational program:

Training course	Semester	The number of studied disciplines		The number of academic credits						hours	Exam	Dif. exam
		UC	EC		Pedagogical practice	Research practice	Scientific Research of a doctoral student					
I										0		
		-			0	0			30	1230		2
II		-	-						30	510		
		-	-				0		30	900		
III		-	-						30	570		
		-	-						30	1410		
Итого			3		10	10	23	23			5	6

Annex 1

Information about disciplines

№	Name of the discipline	Short description of the discipline	Number of credits	Formed competencies (codes)
Cycle of mandatory disciplines				
1	Research methods	The discipline forms students' skills about modern technologies of mechanization in animal husbandry and the ability to use modern technologies. It also gives an idea of the essence and significance of modern mechanization technologies.	5	PO1, PO3
2	Academic writing	This course forms the skills of doctoral students to create written and oral academic texts, correct compilation of bibliographic descriptions, and principles of communication in the scientific environment. The discipline deals with scientific discourse, citation rules and plagiarism, information databases and data sets, international databases of scientific citation (Web of science, SCOPUS), and the Russian scientific citation database (RSCI).	5	PO1, PO3
3	Behavior of farm animals.	While mastering the course, the doctoral student will study in depth the methods of ethology, locomotor, mental and vegetative processes of behavior and its relationship with the productivity of farm animals; the main modern directions of animal psychology in ontogenesis; group behavior and social relationships of animals; learn to independently apply methods of managing behavioral reactions.	5	PO2, PO3, PO6

4	Resource-saving technologies for production of livestock products	The doctoral student develops in-depth knowledge of studying the essence of resource-saving animal husbandry. The doctoral student will master ways to accelerate the transition from managing the processes of keeping livestock, caring for it and receiving products to managing the overall profitability of an agricultural enterprise by using modern electronics and sensor sensors that significantly increase the efficiency of production and reduce labor costs.	5	PO2, PO3, PO6
Cycle of choosing components				
5	Innovative methods of production technology and primary processing of sheep products	The course is aimed at developing doctoral students' knowledge and skills in the use of new decision-making tools and new technologies for the production and primary processing of sheep products, provides improved product quality and profit through the large-scale development of automation tools, including programmable complexes and intellectual support systems.	5	PO2, PO3, PO7
6	Breeding in sheep farming	When studying the program, the doctoral student develops in-depth knowledge and skills in improving existing and creating new breeds, types and lines of sheep of different productivity directions. The doctoral student acquires skills in working with the latest technologies, as well as the introduction of digital technologies, the development of new computer programs for working in breeding farms of various forms of ownership.	5	PO2, PO3, PO7
7	Modern technologies in sheep and goat breeding	The course program in-depth studies modern technologies in sheep breeding. Doctoral students develop the skills of assessing the productive and breeding qualities of sheep in various areas of productivity; maintaining documentation on zootechnical accounting; planning the production of wool and mutton; developing breeding programs; technological maps of sheep production; in-depth knowledge of foreign and domestic technologies in the production of sheep and goat products.	5	PO2, PO3, PO7
8	Improving the efficiency of sheep production	The course provides doctoral students with knowledge and skills in the organization and application of innovative technologies for the production of sheep products on farms. Doctoral students will master the most effective modern means of automation and mechanization that	5	PO2, PO3, PO7

1. The purpose of this study is to determine the effect of the use of the computer on the learning of the English language.

2. The purpose of this study is to determine the effect of the use of the computer on the learning of the English language.

3. The purpose of this study is to determine the effect of the use of the computer on the learning of the English language.

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10. The purpose of this study is to determine the effect of the use of the computer on the learning of the English language.

		contribute to improving the efficiency of sheep production.		
9	Design of milk and beef production technology	The program studies the development of intensification of dairy, dairy-meat (combined) and beef cattle breeding at the present stage. The doctoral student receives in-depth knowledge on modern technologies of planning, development and reconstruction of dairy and meat farms, based on the experience of the latest achievements of scientists and advanced industries.	5	PO2, PO3, PO4
10	Reproduction of cattle and directed rearing of young animals	The course program forms the knowledge of doctoral students in the organization of herd reproduction, cattle breeding techniques, regulations on the organization of artificial insemination of cows and heifers, embryo transplantation, modern technologies for obtaining sperm products and the quality of seed material. The program examines in detail the latest achievements of scientists in the field of rearing repair young animals in the dairy and post-dairy periods in conditions of intensive technologies.	5	PO2, PO3, PO4
11	Identification of cattle by modern methods and their safety during transportation	As a result of mastering this program, the doctoral student develops and deepens knowledge in the application of the modern animal accounting system, which includes assigning an individual number to an animal in various ways through the use of cattle tagging. A doctoral student can arrange transportation and monitor the safety of animals during their transportation	5	PO2, PO3, PO4
12	Technology of milk production and features of its design	The course studies the most modern milk production technologies. The doctoral student develops knowledge and skills in drawing up milk production projects for various farms and dairy complexes; develops skills in working with robotic equipment used in dairy complexes	5	PO2, PO3, PO4
13	Genotypic evaluation of horses of the native species	In the course of studying the discipline, the doctoral student deepens theoretical knowledge and practical skills in the comprehensive assessment of breeding horses, the peculiarities of breeding horse breeds in herd conditions. Acquires practical skills in applying the results of a comprehensive assessment for the selection of horses in a breeding group and competence in determining valuable economically useful breeding characteristics of horses.	5	PO2, PO3, PO5

14	Technology of reproduction of horses	As a result of mastering this program, the doctoral student develops and deepens the knowledge of the application of modern technologies in the field of reproduction of horses of various productivity directions used in practical breeding; skills in organizing and conducting artificial insemination of horses, the ability to determine the timing of mare breeding, keeping breeding records.	5	PO2, PO3, PO5
15	Feeding the content. Evaluation and selection in meat horse breeding	When studying the discipline, a doctoral student acquires in-depth knowledge and practical skills for evaluating and selecting horses in meat horse breeding according to the main breeding characteristics - type, exterior, measurements, live weight, adaptive qualities. Knowledge and skills of working with animals are formed taking into account the peculiarities of horses of the meat direction of productivity in the conditions of farms and peasant farms.	5	PO2, PO3, PO5
16	Evaluation and selection in dairy horse breeding.	The course studies the current state and reserves of increasing the production and processing of mare's milk. The doctoral student deepens the knowledge and skills of the selection of high-milk mares in the shape of the udder and nipples, in milk and the quality of offspring. The use of modern technologies for purposeful breeding of breeding young animals on a kumys farm.	5	PO2, PO3, PO5
17	Modern technology of production of agricultural products	The course provides doctoral students with theoretical and practical skills in the field of poultry production; be able to organize the production process to increase the productivity of poultry; apply innovative technologies for the production of poultry products. Doctoral students will master modern methods of keeping, feeding, breeding and efficient use of poultry, modern means of automation and mechanization in poultry farming.	5	PO2, PO3, PO6
18	Methods of increasing the incubation qualities of poultry eggs	The course is aimed at obtaining advanced knowledge in the field of modern technologies of incubation of poultry eggs, in particular, the study of the biological characteristics of eggs; collection, packaging and transportation of eggs; methods of evaluation, sorting and selection of eggs for incubation; their storage and disinfection. Skills of working with equipment and incubators of different brands, be able to adjust temperature, humidity and other indicators to the optimal mode.	5	PO2, PO3, PO6

19	Innovative technologies in poultry farming	The course is aimed at obtaining advanced knowledge in the field of modern technologies of incubation of poultry eggs, in particular, the study of the biological characteristics of eggs; collection, packaging and transportation of eggs; methods of evaluation, sorting and selection of eggs for incubation; their storage and disinfection. Skills of working with equipment and incubators of different brands, be able to adjust temperature, humidity and other indicators to the optimal mode.	5	PO2, PO3, PO6
20	Breeding of poultry	The course studies the issues of breeding and breeding of different types of poultry - from breeding of baselines to obtaining hybrid young. This discipline allows doctoral students to deepen the study of the main economically useful selected traits of poultry in the egg and meat areas of productivity	5	PO2, PO3, PO6

№	Name of companies, enterprises, organizations	Contacts, E-mail
1	Bayserke-Agro LLP	8777368936
2	Dinara-Ranch Agrofirma LLP	87773075520
3	Masakpay LLP	87784504088 trsultan230595@gmail.com
4	LLP "Elim-ai"	87772125024
5	KH "Bereke"	87774670870
6	SPK "Azamat 2"	87773243007 Akzhol_77@mail.ru
7	SPK "Almaty"	8701722 90 78
8	Halyk Trans-1 LLP	87012220982
9	CC "MM"	87010924948
10	KH "Intykpay"	87022514377
11	Birlik LLP	87077970007
12	JSC "Tribal Plant Zhenis"	Zhenis@ mail.ru 87076680063
13	Adil Ranch	87015336797
14	KH "Olzha"	87779469966
15	KH "Alisher"	87103351333
16	KH "Aidarbaev"	terlikbaeva_s@mail.ru 87051594050
17	Sarybulak Company LLP	
18	Madi Farm	87029448899 akterek@mail.ru
19	Farm "Kumtekey"	87025293470
20	Farm "Batay-Shu"	87017457575, 87017208240
21	Farm "Bakey"	87233941442, 87017789911 bakei_agro@mail.ru
22	Zhaksylyk Farm	87273036526
23	Republican Center for Livestock Breeding "Asyl-Tulik", JSC	871651738150 ao.asyl-tulik@mail.ru
24	Livestock complex "Karoy"	+77474267401
25	SEC "Plemzavod " Almaty"	+7 727 394-30-10, info@dinaragroup.kz

РЕЦЕНЗИЯ
на образовательную программу «8D08201- Технология производства
продуктов животноводства»
кафедры «Зооинженерия» НАО КазНАИУ

Целью образовательной программы «8D08201- Технология производства продуктов животноводства» является подготовка высококвалифицированных кадров, обладающих современными технологическими процессами производства продукции животноводства.

Миссия образовательной программы заключается в создании необходимых условий для формирования конкурентоспособного специалиста, востребованного в агропромышленном комплексе и мировом научно-образовательном пространстве.

В образовательной деятельности:

- создание, применение и распространение знаний и технологий мирового уровня для повышения конкурентоспособности национальной экономики;
- развитие и совершенствование модели системы аграрного образования, обеспечивающей высокое качество подготовки всесторонне развитых, высококвалифицированных кадров.

Результаты освоения основной профессиональной образовательной программы определяются приобретаемыми обучающимися общекультурными, общепрофессиональными и профессиональными компетенциями, т.е. их способностями применять знания, умения и личностные качества для решения задач профессиональной деятельности.

При изучении общеобразовательных, базовых, профилирующих дисциплин для обучающихся созданы все условия для развития творческого потенциала, инициативы и новаторства, продолжения студентами образования на последующей ступени высшего профессионального образования.

Считаем, что рецензируемая образовательная программа, разработанный кафедрой «Зооинженерия» НАО «Казахский национальный аграрный исследовательский университет» отвечает основным требованиям государственного общеобразовательного стандарта после высшего образования РК и способствует формированию общекультурных и профессиональных компетенций по образовательной программе «8D08201- Технология производства продуктов животноводства»

Председатель Правления ТОО «Казахский
научно-исследовательский институт
животноводства и кормопроизводства»



А.Тореханов

DECLARATION

I, the undersigned, do hereby certify that the foregoing is a true and correct copy of the original as the same appears in the records of the Department of the Interior.

Witness my hand and the seal of the Department at Washington, D.C., this 1st day of January, 1901.

Very truly yours,
J. M. McKim

Special Agent in Charge, Bureau of Land Management, Department of the Interior, Washington, D.C.

Subscribed and sworn to before me this 1st day of January, 1901.

Notary Public for the District of Columbia.

My commission expires on the 1st day of January, 1902.

Witness my hand and the seal of the Department at Washington, D.C., this 1st day of January, 1901.

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**«Зооинженерия және тағам өндірісінің технологиясы» факультеті
АКАДЕМИЯЛЫҚ КОМИТЕТІНІҢ МӘЖІЛІСІНІҢ**

№ 4 ХАТТАМАСЫНАН КӨШІРМЕ

Төраға – Баймәжі Е.
Хатшы – Г.А. Валиева

Алматы қ.

«24» наурыз 2023 ж.

ҚАТЫСҚАНДАР: 40

КҮН ТӘРТІБІ:

1. 2023-2027 оқу жылдарына арналған факультеттің білім беру бағдарламаларын бекіту туралы

ТЫҢДАЛДЫ: 1. АК Төрағасы Е. Баймәжі 2023-2027 оқу жылдарына арналған «Зооинженерия және тағам өндірісінің технологиясы» факультетінің «Зооинженерия» кафедрасы және «Тағам өнімдерінің технологиясы және қауіпсіздігі» кафедрасының білім беру бағдарламалары кафедраларда талқыланып бекітілді, бүгін Академиялық комитетте талқылап, шешім шығаруымыз керек. АК мүшелері және кафедраның профессор-оқытушылар құрамы жиналған екенбіз. Әр білім беру бағдарламалары бойынша кафедра меңгерушілеріне сөз берсек.

СӨЗ АЛҒАНДАР: АК мүшесі Адылканова Ш.Р., а.ш.ғ.д., профессор осы уақытқа дейін барлық білім беру бағдарламаларын бекітуге өте көп жұмыстар атқырылды, әр кафедра өз кафедрасының бағдарламаны жасаған комитет мүшелерімен және профессор оқытушы құрамымен талқылап, кафедра хаттасымен бекітілді.

ТЫҢДАЛДЫ: «Зооинженерия» кафедрасының меңгерушісі, а.ш.ғ.к., қауымдастырылған профессор Г.И. Шайкамал 2023-2027 оқу жылдарына арналған «Зооинженерия» кафедрасының комитет мүшелерімен мемлекеттік жалпыға міндетті білім беру стандарттары негізінде әзірленген білім беру бағдарламаларымен таныстырды. Білім беру бағдарламалары жұмыс берушілердің талаптарына сәйкес, ғылым мен техниканың қазіргі даму тенденциялары мен саладағы жаңа жетістіктерді ескере отырып әзірленгендігін айтты.

«8D08201- Малшаруашылығы өнімдерін өндіру технологиясы» білім беру бағдарламасы бойынша, докторанттарды даярлауды жүзеге асыруға арналған білім беру бағдарламасы бойынша а.ш.ғ.д., профессор Адылканова Ш.Р. сөз алып: білім беру бағдарламасының артықшылықтарының бірі – міндетті пәндерді қалыптастыру кезінде жұмыс берушілердің талаптары ескерілген. Бұл оның мазмұны бойынша түлектің құзыреттілігін қамтамасыз етуге мүмкіндік береді. Мазмұнды компоненттің сапасы күмән тудырмайды. Оқу жоспарының құрылымы тұтастай алғанда қисынды және дәйекті. Пәндердің мазмұны түлек моделінің құзыреттілігіне сәйкес келеді. Әзірленген білім беру бағдарламасы мәлімделген дайындық деңгейіне толық сәйкес келетіндігін жеткізді. Сонымен қатар «8D08201- Малшаруашылығы өнімдерін өндіру технологиясы» білім беру бағдарламасы бойынша, докторанттарды білім беру бағдарламасы кәсіби құзыреттіліктер мен практикалық дағдыларды игеру кәсіби және жалпы білім беру циклінің пәндерімен тығыз байланысты болатындай етіп жасалған. Кәсіптік модульдің өндірістік практика бағдарламасының құрылымы мен мазмұны докторанттардың жалпы және кәсіби құзыреттіліктерін толық игеруге арналғандығын айтты.

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СӨЗ АЛҒАНДАР: а.ш.ғ.к., қауым. профессор Бупебаева Л. 2023-2025 оқу жылдарына арналған 8D08201- Малшаруашылығы өнімдерін өндіру технологиясы білім беру бағдарламасы бойынша, докторанттарды білім беру бағдарламасы еңбек нарығының талаптары мен жұмыс берушілердің сұраныстарын ескере отырып, ұлттық біліктілік шеңбері негізінде әзірленген. Білім беру бағдарламасы болашақ мамандардың еңбек нарығына қажетті құзыреттіліктер мен дағдыларды игеруге мүмкіндік беретінін айтты.

ТАЛҚЫҒА ҚАТЫСҚАНДАР: АК мүшелері және факультет ПОК Мамаева Л.А., Шайкамал Г.И., Адылканова Ш.А., Тимурбекова А.К., Оспанов А.А., Исакова К.М., Серікбаева А.Д., Кожаметов М.К., Қожабергенев А.Т., Жамурова В.С., Исматуллаев С.Л., Қозыкан С., Муратбекова К.М., Молдалимова Г., Кадыкен Р., Бупебаева Л., Қойшыбаев А.М., Махатов Б.М., Габит Г. және жұмыс берушілер келісіп, барлық білім беру бағдарламаларын ҚазҰАЗУ Ғылыми Кеңесінде қарастырылуға ұсынуды дұрыс деп таныды.

ҚАУЛЫ ЕТТІ:

1. 2023-2025 оқу жылдарына арналған «8D08201- Малшаруашылығы өнімдерін өндіру технологиясы» білім беру бағдарламасы бойынша, докторанттарды даярлауды жүзеге асыруға арналған білім беру бағдарламасы ҚазҰАЗУ Ғылыми Кеңесінде қарастыруға ұсынылсын.

ДАУЫС БЕРІЛДІ: Бірауыздан мақұлданды.

Академиялық комитет төрағасы

 Е.Бәймәжі

Хаттама жүргізген



Г.А. Валиева

