Ministry of Agriculture of the Republic of Kazakhstan S.Seifullin Kazakh Agro Technical University

Reviewed at the meeting of the University Academic Council Protocol No 15 dated 30 05 2019



EDUCATIONAL PROGRAM "Diagnosis, treatment and prevention of animal diseases" (name of the program)

Code and classification of education: 7M091-Veterinary Code and classification of training areas: 7M091-Veterinary

Code in the International Standard Classification of Education: 7M0841

Qualification: Master of Veterinary Science of the educational program "Diagnosis, treatment

and prevention of animal diseases"

Duration of study: 2 years Full-time form of education The author's team:

- 1. Abdrakhmanov Sarsenbai Kadyrovich Doctor of Veterinary Sciences, Professor, Dean of the Faculty of Veterinary Medicine and Animal Husbandry Technology, Saken Seifullin Kazakh Agro Technical Research University
- 2. Abdrakhmanov Talgat Zhunusovich Doctor of Veterinary Sciences, Professor, Head of the Department of Veterinary Medicine, Faculty of Veterinary Medicine and Animal Husbandry Technology, Saken Seifullin Kazakh Agro Technical Research University
- 3. Maykanov Baltabay Sadepovich Doctor of Biological Sciences, Professor of the Department of Veterinary Sanitation, Faculty of Veterinary Medicine and Animal Husbandry Technology, Saken Seifullin Kazakh Agro Technical Research University
- 4. Dzhakupov Isatay Tusupovich Doctor of Veterinary Sciences, Professor of the Department of Veterinary Medicine, Faculty of Veterinary Medicine and Animal Husbandry Technology, Saken Seifullin Kazakh Agro Technical Research University
- 5. Terlikbayev Askar Aidarkhanovich Candidate of Veterinary Sciences, Associate Professor of the Department of Veterinary Medicine, Faculty of Veterinary Medicine and Animal Husbandry Technology, Saken Seifullin Kazakh Agro Technical Research University
- 6. Inirbaev Asylkhan Kabievich Candidate of Veterinary Sciences, Senior Lecturer, Acting Head of the Department of Veterinary Sanitation, Faculty of Veterinary Medicine and Animal Husbandry Technology, Saken Seifullin Kazakh Agro Technical Research University

The team of authors was approved by the order of JSC "Saken Seifullin Kazakh Agro Technical Research University"

№ 932-H from 12.12.2018; № 962-H from 28.12.2018; № 964-H from 28.12.2018

Educational program "Veterinary safety "
considered at the meeting of the department "Veterinary Medicine"
protocol № 8/16 from «21» 04 2023,
approved by the Faculty Council
protocol № 9 from «04» 05 2023

Dean of the Faculty of Veterinary Medicine and Animal Husbandry

Technology

Doctor of Veterinary Sciences, Professor,

Abdrakhmanov S.K.

Head of the Department "Veterinary Medicine" Candidate of Veterinary Sciences, Associate Professor

Mykhanbetkaliyev Y.Y.

Ministry of Agriculture of the Republic of Kazakhstan NCJSC «S.Seifullin Kazakh AgroTechnical Research University»

Considered at the meeting of the Academic Council of the University Protocol No. 2023y.

EDUCATIONAL PROGRAM

«7M09101- Diagnosis, treatment and prevention of animal diseases»

Code and classification of the field of education: 7M09 - Veterinary

Code and classification of training areas: 7M091 - Veterinary

Code in the International Standard Classification of Education: 7M0841

Qualification: Master of Veterinary Sciences in the educational program «Diagnosis, treatment

and prevention of animal diseases»

Duration of training: 2 years

The author's team:

Faculty Agro Technical Research University
2. Abdrakhmanov Talgat Zhunusovich Abdrakhmanov of Veterinary Medicine Sarsenbai Kadyrovich yrovich - Doctor of Veterinary Sciences, Professor, Deanne Animal Husbandry Technology, Saken Seifullin Dean of the Kazakh

Department of Veterinary Medicine, Faculty of Veterinary Medicine a Technology, Saken Seifullin Kazakh Agro Technical Research University Doctor of Veterinary Sciences, and Animal Professor, Head Husbandry of the

 Maykanov Balgabay Sadepovich
 Department of Veterinary Sanitation, Technology, Saken Seifullin Kazakh Agro Technical Research University h - Doctor of Biolog Biological Medicine Sciences, and Animal Professor Husbandry the

Saken Seifullin Kazakh Agro Dzhakupov Dzhakupov Isatai Tusupovich - Doctor of Veterinary Sciences, Professor of the Veterinary Medicine, Faculty of Veterinary Medicine and Animal Husbandry Technology, Department

Technology, Terlikbaev Askar Aydarkhanovich Inirbaev Department of Veterinary Asylkhan Kabievich lin Kazakh Agro Technical Research University

V Askar Aydarkhanovich – Candidate of Veterinary Sciences, Associate I
ent of Veterinary Medicine, Faculty of Veterinary Medicine and Animal
Saken Seifullin Kazakh Agro Technical Research University
Asylkhan Kabievich – Candidate of Veterinary Sciences, Senior Lectu Husbandry rofessor of

the

Husbandry Technology, Head of the Department Saken of ich – Candidate of Veterinary Sciences, Senior Lectu eterinary Sanitation, Faculty of Veterinary Medicine Seifullin Kazakh Agro Technical Research University Lecturer, Animal Acting

Research University" № 932-H from 12.12.2018; № The team of authors was approved by the order of JSC "Saken Seifullin Kazakh Agro echnical

962-H from 28.12.2018; № 964-H from 28.12.2018

protocol № approved by protocol № 1 considered at the meeting of th Educational program "Diagnosis, treatment and prevention of animal diseases considered at the meeting of the department "Veterinary Medicine" the Faculty Council from « from 202 202

Technology Dean of the Faculty of Veterinary Medicine and Animal Husbandry , Professor,

Head of the Department "Veterinary Medicine" Candidate of Veterinary Scienc es, **Associate Professor**

Akibekov O.S.

Mykhanbetkaliy

Content

8. The relationship between the achievability outcomes according to the educational	7. Appendix 2. Working curriculum	6. Appendix 1. Academic calendar	5. Structure of the educational program	4. Base of professional internships	3. Competency model (portrait) of a graduate	2. General characteristics of the educational	Passport of the educational program	Name of the comp
	ng curriculum	nic calendar	cational program	internships	(portrait) of a graduate	ics of the educational program	ational program	Name of the component
21	13	=	9	7	5	5	4	Page

1 Passport of the educational program

1.1 Purpose of the educational program

Training highly qualified veterinary specialists who are competitive in the labor market and have a high level of scientific knowledge and are capable of realizing acquired knowledge in the production, research and pedagogical fields.

1.2 Learning outcomes

- LO 1. Demonstrate knowledge in the field of veterinary medicine, formulate concepts of legal and anti-corruption culture, determine the importance of principles and culture of academic integrity for the formation of a competent person with high thinking potential, distinguish between the methods of writing academic texts, summarizing, compiling and formalizing research results.
- LO 2. Understand the main philosophical problems of the development of modern science and assess its relationship with the history of the development of science, integrate the knowledge of higher education pedagogy, management psychology into research activities using foreign languages (professional).

 LO 3. Have knowledge in the field of intellectual property and convright protection
- LO 3. Have knowledge in the field of intellectual property and copyright protection, conduct patent information research and prepare national and international applications for inventions.
- LO 4. To formulate the basic principles of the organization of veterinary and sanitary measures, to know the methods of diagnosing diseases of infectious and invasive etiology, as well as to present the methodology of therapeutic and preventive measures for these pathologies.
- well as to present the methodology of therapeutic and preventive measures for these pathologies.

 LO 5. Integrate knowledge on the laws of the structure of the system of organs of the musculoskeletal system, apply modern methods of diagnosis and treatment for various animal injuries.
- **LO 6.** To use the issues of legislative regulation and nomenclature of document management in veterinary medicine in professional activities, to analyze the economic justification of veterinary measures.
- LO 7. To formulate the theoretical and practical foundations of etiopathogenesis and therapeutic and preventive measures for pathologies of non-infectious etiology of animals and young animals, including metabolic disorders of productive livestock, to have the skills of laboratory diagnostics and interpret the results obtained.
- LO 8. Integrate theory and experimental methods with the results of research work and interpret them taking into account the field of study.
- LO 9. To understand modern problems in veterinary medicine and formulate the main ways to solve them, taking into account the social and ethical standards of responsibility associated with the use of acquired knowledge and judgments.
- LO 10. Have the necessary knowledge to select diagnostic measures for obstetric pathologies using modern biophysical research methods, taking into account the physiological state of the animal's body and interpret the results of the study.

 LO 11. Integrate knowledge on the anatomical and physiological state of animal organs
- LO 11. Integrate knowledge on the anatomical and physiological state of animal organs and tissues, apply diagnostic methods for various pathologies and metabolic disorders, master medical thinking when conducting scientific research.
- LO 12. To formulate the basic principles of the organization of practical therapy of animals, to know modern methods of therapeutic techniques and instrumental diagnostics of diseases of non-infectious etiology of productive and unproductive animals, to master the methodology of veterinary manipulations using modern equipment and interpret the results obtained.

competitive advantages, uniqueness, stakeholders, etc.) General characteristics of the educational program (relevance,

Qualifications disciplines is 29% of the system credits are The for Educational studying allocated Framework disciplines to program the volume and nd Professional Standards, designed on the basis of a mones and contains 13 modules. The volume of the cycle of the educational program or 35 credits. Of these, 57% university component. The volume of the cycle of special softhe volume of the educational program. (EP) has been developed the National specialized modular or basic

The relevance of the EP lies in the fact that it meets the demand of the labor market scientific and practical veterinary personnel who have special competencies in the field activities, for production, educational and scientific organizations. monitoring and management of animal diseases of various etiologies, scientific and pedagogical field for of

epidemiology, therapy, surgery, obstetrics of animal diseases, as well as veterinary aspects of food safety, taking into account the regional characteristics of Kazakhstan.

Competitive advantages are determined by the fact that the basic and elective disciplines special feature of the EP is that it teaches modern research methodologies in the field of of

sciences. of the EP are consistent with global research trends in specific areas of the branches of veterinary

scientific scientific institutions and agro-industrial enterprises of Kaz corresponding to international standards when conducting research. allows The undergraduates institutions uniqueness of the program lies to use the material in the fact that the process of its implementation and technical bases of the university, innovative enterprises of Kazakhstan to achieve results

country. significance, NCE "Atameken" Kazakhstan, leading educational, The stakeholders Atameken" of the P are veterinary services of district, regional, agricultural business entities of Central scientific and research institutes of the veterina veterinary profil and and republican Northern of the

3. Competence model (portrait) graduate

3.1 Areas of professional activity:

- scientific research organizations of veterinary, biological and agriculty pedagogical activity in the field of professional veterinary education; management structures of the state veterinary supervision; scientific research organizations of veterinary, biological and agricultural fields;
- commercial veterinary enterprises.

3.2 Types of professional activity Graduates of the master's degree in

of professional activities: master's degree in 7M091 "Veterinary" can perform the

- production and management;
- research; organizational and technol logical;
- design
- and innovation;
- pedagogical;
- entrepreneurial.

3.3 General education competencies - awareness of the social significa

- professional activities; significance ofthe profession, motivation to out
- social sciences in solving social and professional problems; ability to use systematized theoretical and practical knowledge the humanities and

- mastering the methodology of scientific experiment and analysis of actual material in the field of veterinary medicine for practical application in professional activities;
- skills of working on modern means of information and communication technology.

3.4 Basic competencies

- science in scientific research; ability to use basic knowledge ≅. the field of theory and methodology veterinary
- -ability to understand, criti cally analyze and use basic veterinary information;
- problems;
- problem under study. use of the main methods used in veterinary activities in solving professional ability to compile reviews, annotations, abstracts and bibliographies on the subject of the

3.5 Professional competencies

- explaining unity, diversity and approaches to veterinary - the ability to navigate modern scientific concepts such as common health, activities; animal welfare,
- specific veterinary facts and problems; readiness to apply methods of comprehensive analysis the obtained data to explain
- skills of applying general scientific and special principles and methods of cognition in
- analysis; competence be able to synthesize theoretical, practical and ethical elements of professional
- of veterinary ability to develop and implement specialized training programs in educational y and biological profile ability to use special institutions
- trajectory of undergraduates. the knowledge gained within the framework of the educational

4. Bases of passing professional practices

theoretical training: The educational program includes two types of practice that are conducted in parallel with

- 1) pedagogical in specialized higher educational institutions;
- 2) research in specialized research and educational institutions.

methods. At the same time, undergraduates are involved in the discretion of a specialized higher educational institution. Pedagogical practice is carried out in order to form practical skills in conducting undergraduate classes at of teaching and learning

domestic and foreign science. with modern The research practice of methods SCI ientific master's research, student is carried out in order to familiarize himself theoretical and technological achievements

regional, educational institutions and research organizations of the veterinary and biological profile of the country. Research regional practice and is carried out republican significance, ij. various state agricultural and private veterinary economic entities, structures leading of

production and laboratory dissertation of a master's student. process and interpret the results The research work carried out during the period of professional practice serves periments, of research, design in the accumulate theoretical and actual material form of scientific publications and a to establish in order to

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5. The structure of the educational program of the master's degree in the scientific and pedagogical direction

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Approve
Chairman of the Academic Council
NJSC "Seifullin KATIUS" K.M. 2023 y.

DEMIC CALENDAR

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2023-2024 academic year

y levels of training (MASTER)

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ractice*	Capital Day	lolidays	Summer semester	inal examination	semester	Registration for the summer	assing FX	xam session	ictory Day	efender of the Fatherland Day	Kazakhstan benpie of	Namyz	'nternational Women's Day	lsemester	lolidays	lew Year's Holiday	Passing FX	xam session	tence Day	Day	nowledge Day	onstitution day	semester	registration for disciplines	Presentation week,
	July 6	from May 27 to August 31	from June 3 to July 12	until June 30		May 27 - 31	May 13 - 31	from May 13 to May 24	May 9	May 7		March 21,22,23	March 8	January 29 to May 10		January 1, 2	December 18 -29	December 18 - 29	0	October 25	September 1	August 30	September 1 - December 15		

protocol № 16, 29.05. 2023 ouncil of NJSC «S. Seifullin K

working day. Note: If it coincides with a weekend or a holiday, the lesson begins on the next

Educational Programs. and terms of professional practice are determined by the working C

Appendix I to the Acoborde Calendar Appended by the Scientific Council of the NAO "KATER second after Scientific", Present No. (6 of 28 left, 292)

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Conventions

PW - presentation much

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TP - parting practice

U - undergradure research week

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IR-Sai commiss

Holidays

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6 Judy - Automa Day

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The Ministry of Agriculture of the Republic of Kazakhstan NC JSC "S.Seifullin Kazakh Agrotechnical Research University"

Con	sidered at	the meeting	g of Academic Council of	the
Uni	versity Pro	tocol № _		
" <u> </u>	_ "	20	_у.	

APPROVED	
Member of the	Board
Vice-Rector for	Academic
NC JSC "KAT	IU"
Abisheva R.D.	
66 77	20 y.

WORKING CURRICULUM

for 2023-2025 academic year

For the modular education program "Diagnostics, treatment and prophylaxis of Animals' diseases"

by the speciality/group of educational programmes M138 –

Veterinary science

Degree: Master's program by specialization (Scientific & pedagogical direction)

Form of education: Full-time (MS 2 years) semester

Entry year: 01-09-2023

Distribution of credits per Volume of hours Control in the academic period academic period 2 course 1 course Self-Selfincluding study study work work of Ms of Ms Number of weeks in the student student Module name academic period with teacher Module 15 15 15 15 **Fotal** (office) General modules 5.0 85 30 20 45.0 15 Psychology of management PU 5203 BS Psychology of management 3.0 48 30.0 15 15 90.0 Pedagogics of higher school **PVSH 5205** Pedagogics of hipher school 5.0 85 30 150.0 45.0 History and philosophy of science IFN 5201 History and philosophy of Sciences 5.0 20 85 45 45.0 150.0 Foreign language (professional). IYaP 5202 UC professional foreign language Modules of specialty/education programm 8.0 0 240.0 240 Research practice IP 6310 AS Research practice

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5		AS	UC		Research practice	12		_		300			45.0	15	30	0	20	85	5.0			
	Cicilitie	AS	UC		Transboundary and vector-borne infectious animal diseases	5	1						45.0	15	30	0	20	85			5.0	
- F	edagogical	AS	UC	SLBMA	Modern Laboratory and Biophysical Methods in	5	3					250000000		15	30	0	20	85		5.0		
_	-	BS	ES	6305 PBBZh 5208	Obstetrics Disease prevention and animal welfare	5	2				'		45.0	15		0		85		+		
0	-	BS	ES	OMZS 5208	Fundamentals of Herd Health Management		2						45.0	15	30	0	20	59	4.0			
1	-	AS	ES	VT 5309	Veterinary Traumatology	4	1					120.0	45.0	15	30		16					
		4.5	ES	RVH 5309	Reconstructive and Recreating Surgery	1	1						45.0	15	30	0	16	59				
2		AS	Control		Emergent and Neglected Parasitic Zoonoses	5	3					150.0	45.0	15	30	0	20	85			5.0	
3		AS	ES			-	3		-		$\overline{}$	t	45.0	15	30	0	20	85				
14		AS	ES	Marie Carlo Service (Marie Control Con	Protozooses of animals, birds and fish	4	2				_	120.0	45.0	15	30	0	16	59		4.0		
15		AS	ES		Metabolic diseases in intensive animal husbandry		2					}	45.0	15	30	0	16	59				
16		AS	ES	5308	Epizootological monitoring and prediction of infectious animal diseases		-					150.0	45.0	15	30	0	20	85	5.0			
17		BS	ES	IPDLBM 5206	Innovative approaches to the diagnosis and treatment of diseases of young animals	,	<u> </u>						45.0	15	30	0	20	85	1			
18		BS	ES	PT 5206	Practical Therapy		\ <u> </u>					150.0	45.0	15	30	0	20	85	5.0			
	scientific	AS	UC	SPVM 5304	The modern problems of Veterinary Medicine	5	1					150.0	45.0	15	30	0	20	85	5.0			
20	approaches to conducting the	AS	UC	TME 5301	Theory and Methods experiment	5	1					150.0	45.0	15	30	0	20	85	5.0			
21	experiment	BS	ES	PZIS 5207	Patenting and intellectual property protection	5	1					150.0	45.0	15	30	0	20	85	-	-		
22		BS	ES	ZISNI 5207	Protection of intellectual property in research		1			- (0		60.0	45.0	0	0	0	0	0	+	2.0		
23	Teaching practice	BS	UC	PP 5209	Pedagogical training	2				60		00.0				Ľ						
Scient	ifically research													Τ.	La	Ta	Ι.	10	1.0			_
	The research work	RW	CS	NIRMVVMD	Master student's research work, including implementation of master's thesis	1				30		30.0		0	0	0	0	- 0		1.0	_	-
	of a master student including the	RW	CS	NIRMVVMD		1				30		30.0		0	0	0	0	0		1	12.0	-
26	implementation of the master's thesis	RW	CS	NIRMVVMD	The state of the s	12				360		360.0		0	0	0	0	0		-	,2.0	10.0
27		RW	CS		Master student's research work, including	10				300		300.0		0	0	0	0	0		120.0	20.0	
	of theoretical course			6504	implementation of master's thesis	112	2 14	0	0	1380	0	3360	615	193	420	0	264	1101	30.0	30.0	30.0	22.0
						_	-	+-					0									
AC	Additional courses																			+	-	\vdash
FA	Final attestation					8						240.0										

Master dissertation defence	8		4	240								
Total	120		1384	3600	615	195	420	0	264	1101		

Examinations (semester)* - The final form of control on Physical Culture and types of professional practice is a differentiated credit.

The modular curriculum is made in accordance with the standard curriculum of the speciality (approved by the Order of the MES RK from 16.08.2013 № 343).

State obligatory standards of education (approved by the Order of the Ministry of Education and Science of the Republic of Kazakhstan from 23.08.2012 № 1080), modular educational programme of the specialty.

The modular curriculum was considered and approved at the meeting of the methodical commission of the faculty, Protocol № 20__

Director of Department of Academic Affairs Deputy Director of the Department of Academic Affairs Dean of the faculty

Head of the Department

Жургенов Жакенбай Сарсенбаевич

Акибеков Оркен Султанхамитович

Муханбеткалиев Ерсын Ергазыевич

The Ministry of Agriculture of the Republic of Kazakhstan NC JSC "S.Seifullin Kazakh Agrotechnical Research University"

Cor	nsidered at	t the meeting	g of Aca	ademic	Council	of the
		otocol №				
**	,,	20	_ y.			

APPROVED
Member of the Board
Vice-Rector for Academic
NC JSC "KATIU"
Abisheva R.D.
" 20___ y.

WORKING CURRICULUM

for 2023-2025 academic year

For the modular education program "Diagnostics, treatment and prophylaxis of Animals' diseases"

by the speciality/group of educational programmes M138 –

Veterinary science

Degree: Master's program by specialization (Scientific & pedagogical direction)

Form of education: Full-time (MS 2 years) semester

Entry year: 04-01-2023

- I							Cont	rol in t	he acad	emic pe	eriod	Volum	e of ho	urs					Distri per a	ibutior cadem	of cre ic peri	dits:
									1	_				inclu	ding		Self-	Self-	1 cou	rse	2 cou	irse
			ınt				,				ect						study work	study work	1	2	3	4
	•	cle	mpone	ject	2	credits		ted .e)	ted paper)	RW	er/proj		arning			icals	of Ms studen	of Ms studen	Numi			in the
dule code	dule nam	scipline cy	scipline co	ode of subj	ubject nan	cademic	Cxams)ifferentia	Differentia est(course	Practice/S	Ferm pape	Fotal	In-class le	Lectures	Practice	Lab pract	t with teache r (office)		15	15	15	15
Mo	ž	Ä	Ā	ŭ	S -	₹.	<u> </u>															
Gene	al modules					-	T 1		Ι		1	150	45.	15	30	0	20	85	5.0			
1	Psychology of	BS	UC	PU 5206	Psychology of management)	1					0	0						<u> </u>	-		+
2-	management			DVGII 5000	Pedagogics of higher school	3	1					90.0	30.	15	15	0	12	48	3.0			
2	Pedagogics of hipher school	BS	UC	PVSH 5208	Pedagogics of higher school								0									
						5	1	-	_		+	150.	45.	15	30	0	20	85	5.0			
3	History and philosophy of	BS	UC	IFN 5204	History and philosophy of science	3	1					0	0									
	Sciences					-	1		 	-	+	150.	45.	0	45	0	20	85	5.0			
4	professional foreign	BS	UC	IYaP 5205	Foreign language (professional).	3	1					0	0						<u> </u>			
Mod	language ules of specialty/education	n progra	amm																			
MOO	uies of specialty/education	prop.	POR 1 18 8 8																			

5	Theory and Methods experiment	AS	UC	TME 5304	Theory and Methods experiment	5	1		150. 0	45. 0	15	30	0	20	85	5.0		
6	Foreign and Infectious Animal Diseases	AS	UC	EIBZh 5303	Exotic and Infectious Diseases of Animals	5	1		150. 0	45. 0	15	30	0	20	85	5.0		
7	Research practice	AS	CS	IP 5309	Research practice	4		120	120.		0	0	0	0	0	4.0		
8		AS	CS	IP 6306	Research practice	10		300	300. 0		0	0	0	0	0		0	
9		AS	CS	IP 6307	Research practice	6		180	180. 0		0	0	0	0	0			6.0
10	scientifically research	AS	UC	MIVA 6305	Research Methods in veterinary obstetrics	5	3		150. 0	45. 0	15	30	0	20	85		5.0	
11		AS	ES	PMBZB 5301	Prevention and Control of Zoonotic Diseases	4	1		120. 0	45. 0	15	30	0	16	59	4.0		
12		AS	ES	EMPIBZh 5301	Epizootological monitoring and prediction of infectious animal diseases		1			45. 0	15	30	0	16	59			
13		AS	ES	IBZhZh 6302	The invasive disease of ruminants animals	5	3		150. 0	45. 0	15	30	0	20	85		5.0	
14		AS	ES	PZhPR 6302	Protozooses of animals, birds and fish		3			45. 0	15	30	0	20	85			
15		BS	ES	DNBM 5201	Diagnosis of non-infectious diseases of young animals	5	1		150. 0	45. 0	15	30	0	20	85	5.0		
16		BS	ES	PT 5201	Practical Therapy		1			45. 0	15	30	0	20	85			
17		BS	ES	PZIS 5202	Patenting and intellectual property protection	5	1		150.	45. 0	15	30	0	20	85	5.0		
18		BS	ES	ZISNI 5202	Protection of intellectual property in research		1			45. 0	15	30	0	20	85	5.0		
19		BS	ES	PBBZh 5203	Disease prevention and animal welfare	5	1		150. 0	45. 0	15	30	0	20	85	5.0		
20		BS	ES	OMZS 5203	Fundamentals of Herd Health Management		1			45. 0	15	30	0	20	85			
21	The modern problems of veterinary medicine	AS	UC	SPVM 5308	The modern problems of Veterinary Medicine	5	1		150. 0	45. 0	15	30	0	20	85	5.0		
22	Teaching practice	BS	CS	PP 5207	Pedagogical training	2			0.0		0	0	0	0	0	2.0		
Scien	tifically research															1.0		
23	The research work of a master student including the	RW	CS	NIRMVVM D 5501	Master student's research work, including implementation of master's thesis	1		30	30.0		0	0	0	0	0	1.0		
24	implementation of the master's thesis	RW	CS	NIRMVVM D 5512	Master student's research work, including implementation of master's thesis	1		30	30.0		0	0	0	0	0	1.0		
25		RW	CS	NIRMVVM D 6509	Master student's research work, including implementation of master's thesis	10		300	300. 0		0	0	0	0	0		0	

26		RW	CS	NIRMVVM D 6511	Master student's research work, including implementation of master's thesis	12				360		360. 0		0	0	0	0	0				12. 0
Tota	al of theoretical course					10 8	13	0	0	132 0	0	3180	570	18 0	39 0	0	248	1042	60. 0	0. 0	30. 0	18. 0
AC	Additional courses												0									
FA	Final attestation					12						360.0										
	Master dissertation defen	ce				12				4		360										
	Total					12 0				132 4		3540	570	18 0	39 0	0	248	1042				

Examinations (semester)* - The final form of control on Physical Culture and types of professional practice is a differentiated credit.

The modular curriculum is made in accordance with the standard curriculum of the speciality (approved by the Order of the MES RK from 16.08.2013 № 343).

State obligatory standards of education (approved by the Order of the Ministry of Education and Science of the Republic of Kazakhstan from 23.08.2012 № 1080), modular educational programme of the specialty.

The modular curriculum was considered and approved at the meeting of the methodical commission of the faculty, Protocol № 20__

Director of Department of Academic Affairs Deputy Director of the Department of Academic Affairs Dean of the faculty Head of the Department Жургенов Жакенбай Сарсенбаевич

Акибеков Оркен Султанхамитович Муханбеткалиев Ерсын Ергазыевич The Ministry of Agriculture of the Republic of Kazakhstan NC JSC "S.Seifullin Kazakh Agrotechnical Research University"

Cor	nsidered a	t the meeting	g of Academic Council of the
Un	iversity Pr	otocol №	
···	••• ••• ••• ••• ••• ••• ••• ••• ••• ••	20	y.

APPROVED		
Member of the	e Board	
Vice-Rector f	or Academi	C
NC JSC "KA"	TIU"	
Abisheva R.D).	
66 27	20	y.

WORKING CURRICULUM

for 2022-2024 academic year

For the modular education program "Diagnostics, treatment and prophylaxis of Animals' diseases"

by the speciality/group of educational programmes M138 –

Veterinary science

Degree: Master's program by specialization (Scientific & pedagogical direction)

Form of education: Full-time (MS 2 years) semester

Entry year: 01-09-2022

							Cont	rol in t	he acad	emic pe	riod	Volum	e of ho	urs						bution cademic		
			Ħ								20000			inclu	ding		Self- study	Self- study	1 cou	rse	2 cou	rse
			onen			S.		11	£		ject		50				work	work	1	2	3	4
ode	ашс	cycle	e comp	ubject	amc	c credit		tiated	iated se pape	SRW	per/pro		carning			ticals	of Ms studen t with	of Ms studen t		per of w		the
Module c	Module n	Discipline	Discipline	Code of s	Subject n	Academi	Exams	Different	Different test(cour	Practice/	Term pa	Total	In-class l	Lectures	Practice	Lab prac	teache r (office)		15	15	15	15
Gene	ral modules																					
1	Psychology of management	BS	U C	PU 5215	Psychology of management	5	2					150. 0	45. 0	15	30	0	20	85		5.0		
2	Pedagogics of hipher school	BS	U C	PVSH 5217	Pedagogics of higher school	3	2					90.0	30. 0	15	15	0	12	48		3.0		
3	History and philosophy of Sciences	BS	U C	IFN 5212	History and philosophy of science	5	1					150. 0	45. 0	15	30	0	20	85	5.0			
4	professional foreign language	BS	U C	IYaP 5213	Foreign language (professional).	5	2					150. 0	45. 0	0	45	0	20	85		5.0		
Mod	ules of specialty/education	n progra	ımm																			

; T	Theory and Methods	AS	U	TME 5311	Theory and Methods experiment	5	2					150.	45.	15	30	0	20	85		5.0		
	experiment		č			4	_	-+	-		- 1	0.0	_	0	0	0	0	0				
	Research practice	AS	CS		Research practice	7				300		300.		0	0	0	0	0			10.	
		AS	CS	IP 6313	Research practice	10					0	0		_	0	0	0	0			0	6.0
\dashv		AS	CS	IP 6313	Research practice	6				180		180. 0		0	0	U	U		1.0			-
	Foreign and	AS	U	EIBZh 5310	Exotic and Infectious Diseases of	5	1						45. 0	15	30	0	20	85	5.0			
	Infectious Animal	710	č		Animals							0	•				20	0.5	-		5.0	-
^	Diseases scientifically research	AS	II	MIVA 6312	Research Methods in veterinary	5	3					150.	45.	15	30	0	20	85				
0	Scientifically research	715	č	1310.00007.000.000.31.0000.3100.000.7100.00	obstetrics							150.	45.	15	30	0	20	85	5.0			
1		BS	ES	PBBZh 5209	Disease prevention and animal welfare	5	1					0	0	5200				0.5	5.0	-	-	\vdash
2		BS	ES	PZIS 5208	Patenting and intellectual property	5	1					150.	45. 0	15	30	0	20	85	3.0			
2					protection	5	1				-	150.	45.	15	30	0	20	85	5.0			
13		BS	ES	DNBM 5207	Diagnosis of non-infectious diseases of young animals	,	1				_	0	0	15	30	0	20	85	+-	-	5.0	+
4		AS	ES	IBZhZh 6309	The invasive disease of ruminants animals	5	3					150. 0	45. 0	15		0		59	4.0	-	-	-
5		AS	ES	PMBZB 5308	Prevention and Control of Zoonotic Diseases	4	1					120. 0	45. 0	15	30	0	16	85	5.0			-
16	The modern problems of	BS	U C	SPVM 5211	The modern problems of Veterinary Medicine	5	1					150. 0	45. 0	15	30	U	20	83	3.0			
	veterinary medicine	DC	CS	PP 5216	Pedagogical training	2						0.0	K-	0	0	0	0	0		2.0		
17	Teaching practice	BS	CS	FF 3210	1 cdagog.ca. a.a									L								
Scie	tifically research					1.	1			ı		0.0	<u> </u>	0	0	0	0	0	\top			
18	The research work of a master student	GE R	CS	NIRMVVM D 5106	Master student's research work, including implementation of master's thesis	1						0.0							1.0			
19	including the implementation of	GE R	CS	NIRMVVM D 5101	Master student's research work, including implementation of	1						0.0		0	0	0	0	0	1.0			
	the master's thesis	, K			master's thesis	10	-			300		300.		0	10	0	0	0			10.	
20		GE R	CS	NIRMVVM D 6107	Master student's research work, including implementation of master's thesis	10				300		0									0	1
•		GE	CS	NIRMVVM	Master student's research work,	12				360		360.		0	0	0	0	0				0
21		R	03	D 6108	including implementation of master's thesis							0								120	120	١,
	al of theoretical course				Illaster 5 triesis	10	13	0	0	114 0	0	3000	570	18	39	0	248	1042	35. 0	20. 0	30. 0	0
Tot						11655	+-						0									
Tot	T									_			all I								11 () () () () () () () () () (10000
Tot A C	Additional courses											360.0								+-	+-	+

. .

Master dissertation defence	12		4	360								
Total	12 0		114	3360	570	18 0	39 0	0	248	1042		

Examinations (semester)* - The final form of control on Physical Culture and types of professional practice is a differentiated credit.

The modular curriculum is made in accordance with the standard curriculum of the speciality (approved by the Order of the MES RK from 16.08.2013 № 343). State obligatory standards of education (approved by the Order of the Ministry of Education and Science of the Republic of Kazakhstan from 23.08.2012 № 1080), modular educational programme of the specialty. The modular curriculum was considered and approved at the meeting of the methodical commission of the faculty, Protocol № 20_

Director of Department of Academic Affairs Deputy Director of the Department of Academic Affairs Dean of the faculty

Head of the Department

Жургенов Жакенбай Сарсенбаевич

Акибеков Оркен Султанхамитович Муханбеткалиев Ерсын Ергазыевич The Ministry of Agriculture of the Republic of Kazakhstan NC JSC "S.Seifullin Kazakh Agrotechnical Research University"

Cor	nsidered at	the meeting	g of Acader	nic Council	of the Univers	ity Protocol
№						
		20	_ y.			

WORKING CURRICULUM

for 2022-2024 academic year

For the modular education program "Diagnostics, treatment and prophylaxis of Animals' diseases"

by the speciality/group of educational programmes M138 – Veterinary science
Degree: Master's program by specialization (Scientific & pedagogical direction)
Form of education: Full-time (MS 2 years) semester
Entry year: 05-01-2022

Т							Contro	l in the a	cademic p	eriod		Volume o	f hours						Distrib	ution of cr nic period	eans per	
									ž					includi	ng		Self- study	Self- study	1 cours	e	2 cour	ye.
			ŧ						(conr		15		ŀ				work of Ms	work of Ms	1	2	3	4
	ě	cycle	compone	bject		credits		iated tice)	iated test	SRW	per/proje		earning			cticals	student with teacher	student		r of week		
	odule na	iscipline	iscipline	ode of su	ubject ng	Academic	Ехашѕ	Different test(prac	Different paper)	Practice/	Term pa	Total	In-class	Lectures	Practice	Lab pra	(office)		15	15	15	15
enera	I modules	Α		0	1 0																	
		T no	Luc	DVCH 6206	Pedagogics of higher school	3	1					90.0	30.0	15	15	0	12	48	3.0			
	Social Sciences	BS	UC	PVSH 5206	redagogies of higher sender							150.0	45.0	15	30	0	20	85	5.0	-	-	+
		BS	UC	IFN 5203	History and philosophy of science	5	1					150.0	45 0	13	30		20					
		BS	UC	PU 5205	Psychology of management	5	1					150.0	45.0	15	30	0	20	85	5.0			
	Professional foreign	BS	UC	IYaP 5204	Foreign language (professional).	5	1					150,0	45.0	0	45	0	20	85	5.0			
Aodu	language les of specialty/education p										J											
															T	T .	T 20	1 06	_	_	5.0	$\overline{}$
i i	Scientifically	BS	UC	SPVM 5202	The modern problems of Veterinary Medicine	5	3					150.0	45.0	15	30	0_	20	85			J.0	\perp
,	research	AS	UC	EIBZh 5304	Exotic and Infectious Diseases of Animals	5	2					150.0	45.0	15	30	0	20	85		5.0		
		70.2		m (F) (20)	Theory and Methods experiment	5	2				+ -	150.0	45.0	15	30	0	20	85		5.0		
7		AS	UC	TME 5305	Theory and Michigas experiment									-		1	20	95	+	+	5.0	+
•		AS	UC	MIVA 6306	Research Methods in veterinary obstetrics	5	3					150.0	45.0	15	30	0	20	85	1		J., 0	

		BS	ES	PBBZh 5209	Disease prevention and animal welfare	5	2					150.0	45 0	15	30	0	20	85		5.0		
			1			ļ. —	1					150.0	45.0	15	30	0	20	85	+		5.0	
5		BS	ES	PZIS 5207	Patenting and intellectual property protection	3	3		4		_	HUCHALDON.	10 pm and	717/2	10		20	85			5.0	
	-	BS	ES	DNBM 5208	Diagnosis of non-infectious diseases of young animals	5	3					150.0	45.0	15	30	0	20	9.5			5.0	
		AS	ES	IBZhZh 6308	The invasive disease of ruminants animals	5	3					150.0	45 0	15	30	0	20	85				
				PMBZB 5307	Prevention and Control of Zoonotic Diseases	4	3			1		120.0	45.0	15	30	0	16	59			4.0	
•		AS	ES	PMBZB 3307	rievention and control of zoonous z issues	_						0.0		0	0	0	0	0		4.0		
Rese	arch practice	AS	CS	IP 5301	Research practice	4									0	10	0	0	+	_	6.0	
\dashv		AS	cs	IP 6302	Research practice	6						0.0		Ů		Ļ.			+		10.0	-
		AS	CS	IP 6303	Research practice	10						0.0		0	0	0	0	J U				\vdash
7 Teac	ching practice	BS	CS	PP 5201	Pedagogical training	2						0.0		0	0	0	0	0				
						<u> </u>										1			_		,	_
cientifically	research								T	T -		0.0	T	0	0	0	0	0	1.0			
	research work of a ter student,	RW	cs	NIRMVVMD 5501	Master student's research work, including implementation of master's thesis) (<u>1</u> ±)		_	10	0	0	0		1.0		+
o inclu	uding the lementation of	RW	cs	NIRMVVMD 5502	Master student's research work, including implementation of master's thesis	1						0.0		ľ	ľ	Ů					4.0	-
	ter's thesis	RW	CS	NIRMVVMD	Master student's research work, including	4						0.0		0	0	0	0	0				_
,		RW	CS	6503 NIRMVVMD	implementation of master's thesis Master student's research work, including	10	+-					0.0		0	0	0	0	0			10.0	
1		CHANGO	CS	6504	implementation of master's thesis	8		-		240		240.0	+	0	0	0	0	0			8.0	
2		RW	cs	NIRMVVMD 6505	Master student's research work, including implementation of master's thesis	108	13	-	0	240	0	2100	570	180	390	0	248	1042	19 0	20.0	48.0	0.0
otal of the	oretical course					108	13	Ť		1	,	CHECK TO SHOW A LINE	0							+	-	+-
	ditional courses					- 10			-			360.0									-	+
	al attestation					12		+		3		360								+		
	sign and defense of m	- Care Court Court Court Court	and the state of t			I LZ				-		2460	570	180	390	0	248	1042	1	1		

Examinations (semester)* - The final form of control on Physical Culture and types of professional practice is a differentiated credit.

The modular curriculum is made in accordance with the standard curriculum of the speciality (approved by the Order of the MES RK

from 16.08.2013 No 343).

State obligatory standards of education (approved by the Order of the Ministry of Education and Science of the Republic of Kazakhstan from 23.08.2012 № 1080), modular educational programme of the specialty.

The modular curriculum was considered and approved at the meeting of the methodical commission of the faculty, Protocol № 20__

Director of Department of Academic Affairs

Deputy Director of the Department of Academic Affairs

Dean of the faculty

Head of the Department

Жургенов Жакенбай Сарсенбаевич

Акибеков Оркен Султанхамитович

Муханбеткалиев Ерсын Ергазыевич

Matrix of achievability of the generated learning outcomes in the educational program using academic disciplines

		ty of the generated learning outcome						Ochiciato	3 1002	utcomes (cod	nog	PO9	PO 10	PO11
	Name of the discipline	Brief description of the discipline (30-50 words)	Num ber of credi	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO8	10)		
			ts	Carneral	education	disciplines								
١			he cycle	of general	- compone	disciplines					T			
			T	ne universit	y compone	I						1		
	(professional).	It forms foreign language communicative competence as an important component of professional competence and the culture of scientific writing among students, which allows them to integrate into international scientific activities, allows them to freely operate the scientific and conceptual apparatus in their specialty, expand the scientific and information base, acquire broad scientific knowledge,												
	History and philosophy of science	Forms the skills of a methodological and dialectical approach to research, generalizes philosophical knowledge, studies the issues of historical development, its structure, analyzes the patterns and trends of scientific knowledge, systematizes the												
	Higher school pedagogy	It allows undergraduates studying in the scientific and pedagogical field to understand common problems methodological and theoretical foundations of higher school pedagogy, skills in the analysis of teaching and upbringing, elements of modern planning are organization technologies. Forms the skills of managing organized activities people through the study of psychological laws are patterns of management and quality of work, form the ability to make scientifically sound decision structure the actions of other people, manage organization.	of nd ns ns,											
	Management Psychology			The cycle	of basic di	sciplines								
-	DECORPORATION OF THE PARTY OF T	Component of choice												

		Considers issues of copyright protection, patent law,	5	V		V								
		the right to the secret of development in scientific		2507										
		research on the basis of current legislation. Develops								1				
	research	skills in conducting patent research, intellectual												
		property protection on the Internet.												١
		property protection on the internet.												l
				į.										
		Forms the theoretical and practical foundations of												
		etiopathogenesis and therapeutic and preventive												
	Innovative approaches to the	measures for pathologies of non-infectious etiology												ı
	diagnosis and treatment of	of young animals. Determines the correlation												ı
	diseases of young animals	between the manifestation of diseases of young												Ī
		animals with their anatomical and physiological					1							١
		characteristics of growth and development, examines												١
		the issues of diagnosis and research methods in the												1
		context of innovative achievements of science in the												
•		field of veterinary medicine.					1							1
		To the Gold of health						1						1
		Forms knowledge in the field of herd health management, ensuring the preservation of biosafety												1
		and hygiene of productive animals.												1
		and hygiene of productive animals.												
	Fundamentals of Herd health	Defines the skills and abilities of the organization of												1
	Management	feeding, maintenance and carrying out veterinary and												
	Management	sanitary measures in livestock farms.											1	1
			II.											ı
	Patenting and intellectual	Summarizes knowledge in the field of intellectual												١
	property protection	property and copyright protection, conducting patent												1
		information research and drafting national and				1							1	1
		international applications for inventions. Forms the								1				١
		skills of interpretation of the objects of invention,										1		
	Practical therapy	creative thinking.			1							1		1
									1				1	1
1 1		Defines the practical skills of conducting diagnostic,							1					١
1 1		therapeutic and preventive measures for animal						1						1
		diseases of non-infectious etiology. Forms knowledge												١
		and skills of using innovative technologies for the	1											1
		diagnosis and therapy of animal diseases and			ľ									١
		predicting a possible outcome.							3					١
1 1		Studies the issues of animal health preservation, the												
		influence of various factors on their well-being.	1											
	Disease prevention and	Demonstrates the main aspects of preventive work in												4
	animal welfare	livestock farms and in settlements.	T	he cycle of	core discir	lines								-
				The univer								1 1		 \dashv
-		Examines modern research methods in obstetrics,	5	V							V	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	Modern laboratory and	studies equipment and methods of clinical,												
	biophysical methods in	Linebusical methods of diagnosing		<i>y</i>	1									
	obstetrics	obstetric physiology, pathology. Defines the skills of												_

		studying the reproductive functions of males and	Т					T					
	14.5	females, sperm research.	- 1										
	todern problems of eterinary medicine	Studies the state, structure and role of veterinary medicine in the food security of the republic, modern methods of diagnosis, prevention and treatment of infectious and non-communicable animal diseases. It forms the ability to make decisions on current topical problems of veterinary medicine, with a scientifically based approach to their elimination.	5			V				V	V		
	Theory and methods of experiment	Develops the skills of organizing and conducting a scientific experiment, studies the problems of monitoring and methodological approach to substantiating the choice of research methods. Integrates theoretical and practical knowledge in the formulation of scientific experience, with the justification of the obtained results of research work and interpret them.	5				V	V	V				
b	Transboundary and vector-	Studies current transboundary and vector-borne animal diseases, develops theoretical and practical skills in organizing measures for diagnosis, monitoring, prevention and elimination of diseases of a transboundary and vector-borne nature.	5							V		V	V
			Th	e cycle of c	1.77		•						
1.			_	Componer	t of choice) 	W		V		v		
	Veterinary traumatology	Provides theoretical and practical knowledge in the field of veterinary traumatology, develops medical thinking skills using modern, scientifically based methods of diagnosis and treatment of injured animals.											
1 1	Metabolic diseases in intensive animal husbandry	Studies strategies for feeding and keeping highly productive livestock to integrate different types of metabolism during periods of highest physiological tension. Develops practical skills in the development of preventive measures in intensive animal husbandry for ketosis, acidosis, osteodystrophy, limb diseases and reproductive diseases.					V		V		V		
	Protozoa of animals, birds and fish	The subject studies modern parasitological, serological and molecular biological methods of diagnosing protozoa of animals, birds and fish. It builds understanding and the ability to solve problems in veterinary protozoology in broader contexts related to their field of study.											
	Reconstructive and	Forms scientific knowledge about the general patterns of the system of organs of the musculoskeletal system											

reconstructive surgery	in ontogenesis and phylogenesis in normal and in various pathological conditions of the body Provides theoretical and practical knowledge in the diagnosis and in the conduct of traumatic orthopedic care for animals.						
Emergent and neglected parasitic zoonoses	Provides basic training in theoretical and practical aspects of emergent and neglected parasitic zoonoses, covering protozoa and multicellular parasites of animals and humans, as well as vectors of pathogens of invasions. Develops special skills in the field of applied parasitology.						
Epizootological monitoring and forecasting of infectious animal diseases	Studies methods of epizootological monitoring and forecasting of the occurrence of infectious animal diseases. Develops skills in analyzing and assessing the risk of the occurrence and spread of infectious animal diseases using information and communication technology						

Head of the Department of «Veterinary Medicine»

Mukhanbetkaliyev Y.Y.

Employer

Tyulegenov S.B.

Chairman of the Faculty Council for Academic Quality

Shaikenova K.H.

Dean of the Faculty of Veterinary Medicine and Animal Husbandry Technology

Akibekov O.S.