#### Ministry of Agriculture of the Republic of Kazakhstan S.Seifullin Kazakh Agrotechnical University

Reviewed by at the meeting of the University Academic Council
Minutes No 15

«30» 05 2019.

Chairman of the Board of S Seifullin Kazakh AgroTechnical University

A.K.Kurishbayev 2019.

# **EDUCATIONAL PROGRAM** «Rational use of natural bioresources»

Code and classification of education field: <u>7M08 Agriculture and bioresources</u>

Code and classification of training direction: 7M083 Forestry

Code in the International Standard Classification of Education: <u>0821</u> Qualification: Master of Agriculture in the educational program "<u>Intensification of hunting farms</u>»

Studying period: 2 year.

Update EPVO – 27.07.2023

Academic Committee:

Chairman – Sarsekova Dani Nurgisaevna Doctor of Agricultural Sciences, Associate Professor

Members of the Committee:

- 1. Toktasynov Zhailau Nurmukhanbetovich Candidate of Agricultural Sciences, Associate Professor
- 2. Mazarzhanova Kuralai Mukazhanovna Candidate of Agricultural Sciences, Acting Associate Professor
- 3. Abzhanov Talgat Sagidollaevich PhD, senior lecturer
- 4. Kopabayeva Arailym Aitbayevna PhD, senior lecturer
- 5. Akimzhanov Darkhan Shoganbekovich PhD, senior lecturer
- 6. Burshakbayeva Laura Muratovna PhD, senior lecturerь
- 7. Tokmurzin Erik Taizhanovich Candidate of Agricultural Sciences, Deputy Director of "Astana Santehservice S" LLP

The Academic Committee was approved by Order No. 516-N of 04.10.2022 for the S.Seifullin Kazakh Agro Technical Research University.

The educational program "Aquaculture and aquatic bioresources" was reviewed a the meeting of the Department of Hunting and Fisheries Protocol № of "
approved by the Council of the Faculty of Forestry, Wildlife and Environmen Protocol № "" 2023.

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#### 1 Passport of the educational program

**1.1 Purpose of the educational program** – Training of highly qualified personnel in research, production and technological, organizational and managerial, project and pedagogical activities, as well as in-demand specialists in the field of rational use of natural bioresources.

Tasks:

- have an idea of the modern management of hunting farms in the Republic of Kazakhstan and their development;
- know the normative legal acts in the field of hunting and environmental legislation; the economics of profitable hunting management;
- be able to apply in practice scientifically-based management methods for the introduction of hunting production;
  - to solve the management tasks of the hunting economy;
- have the skills of the role of a top manager of hunting production, marketing of hunting products, the use of scientific, laboratory and field equipment and technical means in the study of hunting animals;
- to be competent in the organization and management of hunting production, preparation of hunting management projects, state control in the field of protection, reproduction and use of wildlife.

#### 1.2 Learning outcomes

- ON 1 Demonstrate knowledge about current trends in the development of scientific knowledge, about current methodological and philosophical problems of science. To analyze the psychological conditions and features of management activities in order to improve the efficiency and quality of work in the management system. Apply the content of modern concepts of science. Analyze the status and main problems of the history and philosophy of science.
- $ON\ 2$  Apply methods of searching for scientific and professional information in a foreign language using network technologies. To improve both written and oral communication on professional and scientific topics, to produce independent foreign-language texts on professional academic topics. To use at a professional level knowledge about the origin of ornamental animal breeds, feeding methods, breeding work.
- ON 3 To apply in practice methods of accounting for hunting species, methods of animal extraction, rational use of hunting resources, ways to increase the number of animals, as well as methods of their reproduction, maintenance and breeding of wild animals and birds with artificial content.
- ON 4 To form scientific theoretical and practical skills necessary for work in hunting farms and other branches of nature management. To substantiate the scientific potential of nature reserves, national natural parks, reserves and other specially protected natural areas, ecological foundations of nature management, natural resources. Conduct monitoring and accounting of hunting resources and lands.
- ON 5 To develop knowledge about biology and conservation measures for birds and animals, basic methods of conducting experiments in the field of hunting

and animal husbandry. Apply training skills in the basics of legislation in hunting farms, the main representatives of commercial, modern accounting methods, carrying out measures to manage and restore the population of hunting animals.

ON 6 – To implement the technology of collecting, primary processing of hunting products, methods of storage and transportation of hunting raw materials, methods of analyzing the quality of raw materials and finished hunting products; the main methods of extraction of animals and birds used in the Republic of Kazakhstan. Demonstrate knowledge about the main representatives of commercial and non-commercial, biology, accounting for the number of animals and birds.

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

The educational program "Intensification of hunting farms" was created in accordance with the Law of the Republic of Kazakhstan dated July 9, 2004 "On the protection, reproduction and use of wildlife", taking into account the request of employers. This educational program solves the main problems of biodiversity conservation and rational use of the hunting fund, will allow the future specialist to form core competencies.

The relevance of the educational program lies in the fact that it reflects the issues of environmental protection in the field of wildlife protection and hunting management taking into account modern realities, the use of a scientific approach in regulating the number of animals, issues of acclimatization.

The peculiarity of this educational program is that it takes into account the world experience of hunting and organization of hunting economy (Western Hungarian University, Warsaw University of Natural Sciences, Vyatka Agricultural Academy, Irkutsk Agricultural Academy named after A.A. Yezhevsky), as well as taking into account the work and proposals of UNDP, ASBC, etc.

The competitive advantage of the educational program lies in the fact that, based on the experience of various countries, this OP is aimed at solving issues of protection, rational use of the animal world of the Republic of Kazakhstan, taking into account the peculiarities and uniqueness of the hunting fauna.

The uniqueness of the educational program lies in the fact that it reflects significant tasks in the field of development of hunting farms and wildlife protection in the Republic of Kazakhstan, and in particular the issues of wild breeding, intensification of hunting farms and development of national types of hunting, as well as the OP is synchronized with the OP of leading foreign universities in Hungary, the Czech Republic, Poland, Russia. For the implementation of the educational program, there is an appropriate material and technical base (educational and production hunting and fishing farm "Dudarai", UAZ cars, motorized vehicles, monitoring devices for living objects, watercraft, fishing gear, etc.), as well as practice bases provided by employers such as the Forestry and Wildlife Committee of the Ministry of Agriculture of the Republic of Kazakhstan, regional territorial inspections of the Ministry of Agriculture of the Republic of Kazakhstan, the public association of hunters and hunting subjects "Kansonar", "Okhotzooprom", the State

National Nature Park (SNNP)"Burabai", The State Nature Reserve (SNR) "Korgalzhyn" and other subjects in the field of hunting and animal husbandry.

#### 3 Competence model (portrait) of the graduate

- **3.1 Spheres of professional activity** The scope of professional activity of the Master of Hunting is hunting farms of various forms of ownership; state nature reserves, zoological reserves, national nature parks and other specially protected natural territories; state institutions for the protection of forests and wildlife; republican and regional state bodies of wildlife and hunting management; tourist organizations and public associations of hunters and fishermen.
- 3.2 Types of professional activity: breeding, maintenance and use of various types of commercial hunting animals and birds in hunting farms; harvesting, primary processing, processing and marketing of wild breeding and hunting products; organization and implementation of hunting equipment and creation of conditions for amateur sports, commercial hunting, development of measures for semi-voluntary maintenance and cultivation of hunting game; carrying out biotechnical measures to increase the number of animals and birds; breeding works, veterinary and sanitary measures, feeding and keeping of animals and birds; to carry out measures for the protection and control of the rational use of natural biological resources; to conduct research and development, to carry out design and survey work, scientific and organizational activities in various areas of the hunting economy; to carry out organizational and technological activities at all production enterprises of the hunting economy, to carry out management activities, performing management and marketing tasks.

### 3.3 General education competences

- collection, analysis and interpretation of information (instrumental competence);
  - development of ideas and critical argumentation (interpersonal competence);
  - self-motivation and self-management (system competence);
  - regulatory legal acts in the field of hunting and environmental legislation;
  - to lead the economy of profitable hunting management;
- the ability to improve and develop their intellectual and general cultural level;
- possession of a culture of thinking, the ability to generalize, analyze, perceive information, set goals and choose ways to achieve it;
- ability to control and, where possible, prevent tension and stress associated with performance activities (interpersonal competencies);
- the ability to logically correctly, argumentatively and clearly build oral and written speech.

#### 3.4 Basic competences:

- organize and conduct production, research and teaching activities;
- be able to: apply in practice scientifically based methods of management of hunting production; solve management tasks of hunting;

- be able to correctly evaluate the results of scientific and practical activities; conduct practical and laboratory classes with students;
- preparation of feasibility studies and development of plans and programs of innovative projects;
- perform design and survey work using modern equipment and information technologies;
  - use a foreign language fluently as a means of business communication;

#### 3.5 Professional competence

- the ability to use regulatory legal documents regulating the organization and methodology of scientific research in the hunting industry.
- issues of organization and management of hunting production, preparation of hunting management projects, state control in the field of protection, reproduction and use of wildlife.
- scientific bases of hunting production; programs of basic disciplines of hunting profile; basic methods of scientific research on biology and ecology of hunting animals;
- have the skills of the role of a top manager of hunting production, marketing of hunting products, the use of scientific, laboratory and field equipment and technical means in the study of hunting animals;
- have skills: teaching hunting disciplines, be competent in scientific problems of hunting, training young specialists.

#### 4 Base the apprenticeship (specify all kinds of practices)

Undergraduates according to the curriculum undergo pedagogical, research practice.

Pedagogical practice takes place on the basis of the Department of Hunting and Fisheries together with the Department of Vocational Training.

The bases of research practice are hunting farms RSE "Committee of forestry and wildlife Ministry of agriculture of the Republic of Kazakhstan", LLP "Garkul-2002", KKH "IKE" OH "Zaisan", RSE "Almaty regional territorial Inspectorate of forestry and fauna" RSU "Irgiz-Turgai state nature reserve" RSU "Sairam-Ugam state national natural Park" RSU "Karkaraly state national natural Park" RSU "Ustyurt state natural reserve», RSU "Zhongar-Alatau national natural Park", RSU "Katon-Karagay sspp", KGO "Management of natural resources and environmental management of Zhambyl region", RSU "Kyzylorda regional territorial inspection of forestry of fauna", ROO "Tazy Tobet Boribasar", NGO "Society of hunters and fishermen of the city Nur-Sultan and Akmola region", state enterprise "Production and economic enterprise "Zhas-Nur" of akimat of Nur-Sultan", CRF RSE "ON Okhotzooprom", Representation of the Republican Association of public associations of hunters and subjects of hunting economy "Kansonar" in the Karaganda region, East Kazakhstan regional public Association of hunters and fishermen.

# 5 The structure of the Master's degree program in the scientific and pedagogical direction

		Total co	mplexity
№	Name of cycles and disciplines	in academic	in academic
		hours	credits
1	2	3	4
1.	Theoretical training	2640	88
1.1	Cycle of basic disciplines (BD)	1050	35
	University Component (UC):	600	20
	including:		
	History and philosophy of science	150	5
1)	Foreign language (professional)	150	5
	Higher school pedagogy	90	3
	Management Psychology	150	5
	Pedagogical practice	60	2
	Component of choice	450	15
	English for academic purposes / Breeding of	150	5
	ornamental animals		
	Assessment of hunting resources / Methods of reproduction of commercial and rare	150	5
	endangered species of animals	100	
	Ecological tourism in hunting grounds /Ecology	150	5
	and rational nature management		_
1.2	Cycle of profile disciplines (PD)	1590	53
	University component (VC)		
	The fund of hunting grounds and their accounting	150	5
	Problems of rational use of animals	180	6
	Theory and experimental methods in the field of hunting and animal husbandry	150	5
1)	Management and restoration of the hunting animal population	180	6
	Commodity science and technology of primary processing of hunting products	150	5
	Monitoring and extraction of commercial animals and birds in the Republic of Kazakhstan	180	6
	Research practice	600	20
_			

2)	Elective Component (EC)		
2	Research work	720	24
1)	Research work of a master's student, including internship and completion of a master's thesis (RWMS)	720	24
3	Additional types of training (ATT)		
4	Final certification (FC)	240	8
1)	Registration and defense of a master's thesis (RaDMT)	240	8
	Total	3600	120

#### Appendix 1. Academic Calendar

#### Appendix 1 to the Academic Calendar

Approved by the Academic Council of the NJSC "S.Seifullin KATIUS", Protocol №16, of 26.05.2023 y.

# Schedule of the educational process for the 2023-2024 academic year for the educational program of the Faculty of "Forestry, Wildlife and the Environment" MASTER

-	September	October	November	December	January	February	Mart	April	May	June	July August			
Se	28 4 11 18 25	2 9 16 23 30	0 6 13 20 27	7 4 11 18 25	1 8 15 22 29	5 12 19 26	4 11 18 25	1 8 15 22	29 6 13 20 27	3 10 17 24	1 8 15 22 29 5 12 19 26			
Com	1 8 15 22 29	6 13 20 27 3			5 12 19 26 2	9 16 23 1	8 15 22 29	5 12 19 26	3 10 17 24 31	7 14 21 28				
0	1 2 3 4			3 14 15 16 17		23 24 25 26	27 28 29 30	31 32 33 34	35 36 37 38 39	<del></del>	44 45 46 47 48 49 50 51 52			
	M133 "Forestry. Educational program 7M08301 - "Forest park, direction"													
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					M133 "Forestry	. Educational program	7M08304 - "Rational us	e of natural biological reso	urces"					
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<u> </u>					M134 Fish Industry	Educational program	M08401 - "Intensive fis	h farming" (Winter recept	ion - 2024)					

#### Conventions

PW presentation week E Examination sessions S summer semester RP Research practice

• The oretical training P passing FX FE final examination U undergraduate research work

TD errollment in disciplines H holidays TP Teaching practice

## Appendix 2. Working curriculum

#### WORKING CURRICULUM

WORKING CORRECTION
for 2023-2025 scademic year
For the modular education program "Rational use of Natural Bioresources"
by the speciality/group of educational programmes M133 - Forestry
Degree: Master's program by specialization (Scientific & pedagogical direction)
Form of education: Full-time (MS 2 years) semester

					Entry year: 01-09-2023																	
								Control	in the academ	nic period				•	Volume of hou	rs			Dist	ibution o academic		per
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đe.	ame	cycle	Discipline component	of subject		credits		ded testipractice)	ded test(cov	RW	len psperprojet		aming			icals	work of Ms student with	study work of Ms student		15	15	15
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,		BS	UC	PVSH 5205	Pedagogics of higher school	General n	nodules	_	1	1	_	90.0	30.0	15	15	0	15	45	3.0			
2	Socially -	BS	υc	PU 5207	Psychology of management	5	1	_				150.0	45.0	15	30	١,	30	75	5.0			
3	pedagogical	BS	υc	IFN 5204	History and philosophy of science	5	2	+		+		150.0	45.0	15	30	t ö	30	75	3.0	5.0		
4	Promote land	BS	υc	PP 5206	Pedagogical training	1 2		<del>                                     </del>		60		60.0	75.0	0	0	ř	0	0		2.0		
5		BS	υc	IYaP 5203	Foreign language (professional).	5	1			- 00		150.0	45.0	Ö	45	řő	30	75	5.0	2.0		
6	Foreign	BS	ES	AYaDAC 5202	English for Academic Purposes		1 2						45.0	15	30	ř	30	75	2.0			
7	languages	BS	ES	RDZh 5202	Breeding of ornamental animals	H 5	<u> </u>	7				150.0	45.0	15	30	Ť	30	75		5.0		
				100 22( 0200	Modules of	f specialty/	education	DIOSTRIM			_		12.0			_ ·	1 20					
8	Evaluation of	AS	υc	FOUIU 6302	Fund of hunting areas and their account.	5	3		$\neg$	7		150.0	45.0	15	30	0	30	75			5.0	
9	biological	BS	ES	00R 5201	Assessment of Hunting Resources	<u> </u>	1		_				45.0	15	30	0	30	75				
10	resources	BS	ES	MVPRIVZh 5201	Methods vosproyzvodstva commercial and rare endangered species	_ 5	ī					150.0	45.0	15	30	Ò	30	75	5.0			
11	Production	AS	UC	MIDPZhPR 5306	Monitoring and production of game animals and birds in the Republic of Kazakhstan	6	ī					180.0	60.0	30	30	i	30	90	6.0			
12	of animals and birds	AS	υc	TTPOOP 6307	Merchandising and technology of primary processing of hunting products	5	3					150.0	45.0	15	30	0	30	75			5.0	
13		AS	υc	TME00Z 5301	Theory and methods of the experiment in the field of game management and farming	5	1					150.0	45.0	15	30	0	30	75	5.0			
14	1 1	AS	υc	PRIZh 5309	Problems of rational use of animals	6	2					180.0	60.0	30	30	0	30	90		6.0		
15	Management	AS	υc	IP 5304	Research practice	5				150		150.0		0	0	0	0	0		5.0		
16	and recovery	AS	υc	UVP 0.Zh 6303	Management and restoration of populations of game animals	6	3					180.0	60.0	30	30	0	30	90			6.0	
17	of the animal	AS	υc	IP 6308	Research practice	10				300		300.0	l ľ	0	0	0	0	0				10.0
18	population	BS	ES	ETOU 5208	Ecological tourism in hunting grounds	<u> </u>	2						45.0	15	30	0	30	75				
19	1	BS	ES	ERP 5208	Ecology and rational prirodopolzwanie	- 5	2					150.0	45.0	15	30	ō	30	75		5.0		
20	1 1	AS	υc	IP 6305	Research practice	5				150		150.0		0	0	0	0	0			5.0	
						Scientifical	y research	<u>.                                    </u>														
21		RW		NIRMVVMD 5501	Master student's research work, including implementation of master's thesis	1				30		30.0		0	0	0	0	0	1.0			
22	The research	RW	CS	NIRMVVMD 5502	Master student's research work, including implementation of master's thesis	2				60		60.0		0	Ö	Ö	0	Ö		2.0		
23	work of a master	RW	CS	NIRMVVMD 6503	Master student's research work, including implementation of master's thesis	9				270		270.0		0	0	0	0	0			9.0	
24	student.	RW	cs	NIRMVVMID 6504	Master student's research work, including implementation of master's thesis	12				360		360.0		0	0	0	0	0				12.0
Total of	theoretical co	urse				112	13	0	0	1380	0	3360	615	225	390	0	375	990	30.0	30.0	30.0	22.0
AC	Additional co															0						
FA						8							1		240.0							
rn	Final attestati	ion				_	+	-		<del>  .  </del>		_			240						-	
						8	_			4											-	
	Total					120				1384		3600	615	225	390	0	375	990				

Appendix 3. Matrix of achievability of the formed learning outcomes according to the educational program with the help of

academic disciplines

№	Name of discipline	Brief description of the discipline (30-50 words)	Number	Gen	erated l	earning	goutco	mes (co	odes)
			of credits	ON1	ONIO	ONI2	ONIA	ONE	ONG
				ONI	ON2	ON3	ON4	ON5	ON6
	<u> </u>	Cycle of basic disciplines			<u> </u>				<u> </u>
		University component							
1	Pedagogics of higher school	It allows undergraduates studying in the scientific and	3	V					
		pedagogical direction to understand common problems,							
		methodological and theoretical foundations of Higher School							
		pedagogy, skills of analysis of teaching and upbringing,							
2	Psychology of management	elements of modern planning and organization technologies.  Forming the skills of managing organized activities of people	5	V					
2	Psychology of management	through the study of psychological laws and patterns of	_	·					
		management and quality of work, developing the ability to							
		make decisions scientifically, planning the activities of other							
		people, and managing into an organization							
3	History and philosophy of	Forms the skills of the methodological and dialectical	5	V					
	science	approach to the research, summarizes philosophical							
		knowledge, studies the issues of historical development, its							
		structure, analyzes the patterns and trends of scientific							
		knowledge, systematizes the effectiveness of research work.	_						
4	Foreign language	Forms foreign language communicative competence as a	5		V				
	(professional).	significant 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, identify promising areas							
		of professional and scientific activities.							
	<u>'</u>	Cycle of basic disciplines		1		ı	ı		•
		Component of choice							

5	English for Academic Purposes / Breeding of ornamental animals	Comprehensive theoretical and linguistic, practical and informational-analytical training in order to perform functions related to the use of a foreign language in professional and scientific activities: possession of public speaking skills, conducting discussions, the ability to work with information from various sources, edit texts of professionally significant content in a foreign language.  The discipline studies the breeding and maintenance of decorative animals and birds using various methods (enclosure, cage and others), their rational and balanced feeding, modern selection and breeding work, and the prevention of diseases of decorative animals.	5	V			
6	Assessment of Hunting Resources/ Methods vosproyzvodstva commercial and rare endangered species	The discipline studies the principles of classification of hunting grounds, the main taxonomic units of the classification of hunting grounds, the rules for their allocation, the characteristics of hunting grounds as a habitat for game animals and as a place of human hunting activities, classification of forages by origin and methods for accounting for their stocks and protection of the hunting fund.  The discipline studies the rational use of hunting grounds for the reproduction of commercial animals, rare endangered animals and birds, the development of modern methods of implementation and implementation of biotechnical measures to increase and preserve and reproduce wild animals.	5		V		
7	Ecological tourism in hunting grounds / Ecology and rational prirodopolzvanie	The discipline is aimed at studying the potential of nature reserves, national nature parks, reserves and other specially protected natural areas in order to develop ecological - "green" tourism, which means protecting, preserving and restoring biodiversity and ecosystems when visiting natural areas. The discipline studies the theoretical foundations of ecology and rational nature management, ways to solve environmental problems and ways to prevent them, the legal foundations of rational nature management and nature protection, the	5			V	

		presence of organisms in ecosystems.				
		Cycle of profile disciplines				
		University component		 		
8	Fund of hunting areas and their	The discipline studies the assessment of hunting resources and	5	V		
	account	hunting grounds, the organization of biotechnical and hunting				
		operations, techniques for obtaining hunting resources.				
9	Problems of rational use of animals	Regulation and management of hunting animal populations.	6		V	
	animais	Organization and conduct of accounting work in the hunting				
		economy, forecasting the reproduction of hunting animals.				
		Acclimatization and survival of hunting animals. The influence of anthropogenic factors. Selective shooting of wild				
		animals. Improvement of protective and testing conditions of				
		hunting grounds.				
10	Theory and methods of the	The discipline studies the development of agricultural business.	5		V	
	experiment in the field of game	Observation and systematization as a method of scientific research.			•	
	management and farming	Production experience. Experiment as a research method.				
		Zootechnical experiment. Research of biological processes. The				
		study of the interaction of factors. Studies of biochemical related				
11	Management and restoration of	factors.  The discipline studies modern problems of reproduction and use of	6		V	
11	populations of game animals	resources of hunting animals, prospects for the development of	O		·	
	populations of Same annuals	relations to hunting animals, global and regional aspects of the				
		problems analyzed, information for specialists in the field of				
		environmental protection and the use of wildlife resources.				
12	Merchandising and technology	The discipline studies the main products of hunting farms. Chemical	5			V
	of primary processing of hunting products	composition and nutritional properties of meat of wild animals and birds. Primary processing technology, quality determination				
	nunting products	methods, canning methods and sorting principles. Medicinal raw				
		materials of animal and vegetable origin. Harvesting, primary				
		processing and storage.	_			
13	Monitoring and production of	The discipline studies methods of hunting animals. It is possible to	6			V
	game animals and birds in the	make long-term forecasts about the impact of hunting on the fauna				
	Republic of Kazakhstan	of the region and, by regulating the timing and methods of hunting,				
		to some extent manage changes in the qualitative composition of the livestock of wild animals.				
		HVESTOCK OF WHA AIIIIIAIS.			1	