NJSC SHAKARIM UNIVERSITY OF SEMEY

EDUCATIONAL PROGRAM

6B08 - Agriculture and Bioresources
(Code and classification of the field of education)

6B081 - Agronomy
(Code and classification of the direction of training)

0812
(Code in the International Standard Classification of Education)

B077 - Crop production
(Code and classification of the educational program group)

6B08102 - Green fields technologies
(Code and name of the educational program)

Bachelor
(Level of preparation)

Semey

Educational program

6B08 -- Agriculture and Bioresources
(Code and classification of the field of education)

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Semey 2024

PREFACE

Developed

The educational program 6B08102 - Green fields technologies in the direction of preparation 6B081 - Agronomy on the basis of the State Compulsory Standards of Higher and Postgraduate Education approved by the Order of the Ministry of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No 2 (as amended by the order) was developed by the Academic Committee dated 20.02.2023 No 66).

Members of the Academic Committee	Full name	Academic degree, academic title, position
Head of the Academic Committee	Yessengulova Nurlugyl	Dean of the Faculty of Veterinary and Agricultural Management
Educational program manager	Zakiyeva Araily	senior lecturer of the Department of Agriculture and Bioresources
Member of the AC	Akhmetova Balnur	Head of the Department of Agriculture and Bioresources
Member of the AC	Kamzina Gulim	lecturer of the Department of Agriculture and Bioresources
Member of the AC	Cabden Gabit	head of the branch of the East Kazakhstan State Plow and Vegetable State Institution
Member of the AC	Sakenov Madiyar	Chief Specialist of the Department of Crop Production, Technical Inspection and Mechanization of the Department of Agriculture and Land Relations of the Abai region
Member of the AC	Muratova Aida	student of the AG-101 group
Member of the AC	Zhunisbekova Perizat	student of the AG-301 group

Reviewing

Full name of the reviewer	Position, place of work
Seylgazina Saule	"VKSHOS" LLP Deputy Chairman of the Board for Science
Kanafina Anar	RGU "RMTSFD and P" KGI in the agro-industrial complex of the Ministry of Agriculture of the Republic of Kazakhstan

Reviewed

at the meeting of the Commission on Academic Quality of the Faculty of Veterinary Medicine and Agricultural Management by protocol No. 3 of January 09, 2024.

at a meeting of the Academic Quality Commission
Research School of Veterinary Medicine and Agriculture.
Recommended for approval by the University Academic Council
Protocol No. 6 dated June 06, 2024

Approved

at a meeting of the University Academic Council by protocol No. 6/1 of January 19, 2024.

at a meeting of the University Academic Council by protocol No. 11 of June 28, 2024.

Content

1.Introduction

1.1.General data

Educational program implemented NAO "University nashakarim Semey" educational program 6B08102 «Green fields technologies", Department of "Agriculture and bio- resources", faculty of agriculture tailored to the needs of the regional labour market, the requirements of the normative documents of the Ministry of education and science of the Republic of Kazakhstan and is a system of documents for organization of educational process.

Educational program reglamentary objectives, expected results, contents, conditions and technologies of realization of educational process, evaluation of quality of training of the graduate in this field of study and contains a description of the program and direction of professional activity of graduates, learning outcomes and acquired competences, the policy of assessing learning outcomes, organization the educational process, providing quality training of students, a description of the modules that make up the educational program, instructional materials,, ensuring the implementation of appropriate educational technologies.

The contents of the educational program is implemented through curriculum developed in a modular format, where for the first level of education includes three subjects: the cycle of General educational disciplines, cycle of basic disciplines and the cycle of majors, and final examination.

When implementing the educational program, it is planned to use artificial intelligence tools in the educational process, thereby developing digital competencies among students in a rapidly changing technological environment.

The educational program provides for the education of a student with special educational needs in the conditions of a higher educational institution, as well as his socialization and integration into society.

1.2.Completion criteria

The main criterion for the completion of the educational process for the preparation of bachelors is the development of students at least 205 credits of theoretical training, as well as at least 27 credits of practice, 8 credits of final certification.

Total 240 credits.

1.3.Typical study duration: 4 years.

2.PASSPORT OF THE EDUCATIONAL PROGRAM

2.1.EP purpose	Formation of a qualified agricultural specialist who owns innovative technologies in the field of crop production and agriculture in modern labor market conditions
2.2.Map of the training profile within the educational program	
Code and classification of the field of education	6B08 - Agriculture and Bioresources
Code and classification of the direction of training	6B081 - Agronomy
Code in the International Standard Classification of Education	0812
Code and classification of the educational program group	B077 - Crop production
Code and name of the educational program	6B08102 - Green fields technologies
2.3.Distinctive features of the OP (double degree/joint, OVPO-partner, Double major, innovative)	Innovative
2.4.Qualification characteristics of the graduate	
Degree awarded / qualification	Bachelor of Agriculture in the educational program 6B08102
Name of professional standard	Production of grain crops
Atlas of new professions	Specialist in new technologies in agriculture
Regional standard	-
Name of the profession / list of positions of a specialist	The graduate of this educational program is awarded the academic degree "Bachelor of Agriculture". Graduates may hold positions: - agronomy-field-crop growers; - agronomists for plant protection; - meliorators-soil scientists; - farmers-managers; - the leaders of collective farms and firms in the agricultural sector; - inspector of seed control, variety testing, plant protection; inspector for the quarantine inspection at customs; - in all types of laboratories processing plant products; - inspector of territorial inspections; - Engineer for the introduction of new equipment and technology
OQF qualification level (industry qualification framework)	6
Area of professional activity	- management (laboratories, farms, agricultural department); - science (research organizations by profile: - agricultural crops, their varieties and hybrids, genetic collections of plants, seeds and planting material, commercial products; - agronomic landscapes, natural forage lands; - soil and its fertility; - fertilizers, pesticides, herbicides; - agricultural machinery and equipment; - technologies of production of crop production and its primary processing; - technologies of storage, transportation and pre-sale

	preparation of crop production; - processes of organization and management of a structural division of agricultural production, a small enterprise; - primary labor collectives.
Object of professional activity	The objects of professional activity of graduates are: research organizations, the field of management.
Types of professional activity	Graduates of the educational program "Green fields technologies" can perform the following types of professional activities: - production and technological, - organizational and managerial support, - project information, - scientific research. Research activities: - willingness to study modern information, domestic and foreign experience on the subject of research; ability to apply modern methods of scientific research in agronomy according to approved plans and methods; ability to perform laboratory analysis of soil, plant and crop production samples; Production and management activities: the ability to justify the selection of crop varieties for specific conditions of the region and the level of agricultural intensification, to prepare seeds for sowing; readiness to complete tillage, sowing and harvesting units and determine the schemes of their movement in the fields, to carry out technological adjustments of agricultural machines; ability to calculate doses of organic and mineral fertilizers for the planned crop, determine the method and technology of their application for agricultural crops; readiness to justify the system of crop rotations and land management of an agricultural enterprise; readiness to adapt tillage systems for crop rotation crops, taking into account fertility, steepness and exposure of slopes, ground water level, applied fertilizers and a complex of tillage machines; willingness to justify the technology of sowing crops and caring for them; ability to use agrometeorological information in the production of crop products; ability to justify the method of harvesting agricultural crops, primary processing of crop production and its storage; willingness to justify technologies for improving and rational use of natural forage lands, preparation of coarse and juicy feed; ability to ensure labor safety in the production of crop products; Organizational and technological activities: - ability to analyze the technological process as an object of management; - the ability to determine the value of the main production resources of an agricultural enterprise; - the ability to organize the work of performers, find

	and make management decisions in the field of organization and rationing of labor in different economic and economic conditions; - ability to conduct marketing research in agricultural markets; - willingness to systematize and summarize information on the use and formation of enterprise resources; - willingness to cooperate with colleagues, work in a team; knowledge of the principles and methods of organizing and managing small teams; ability to find organizational and managerial solutions in non-standard production situations and willingness to take responsibility for them; - work in a team and communicate effectively with colleagues, management, and consumers; - set goals, motivate the activities of subordinates, organize and control their work with taking responsibility for the result of completed tasks; - be ready to change technologies in your professional activity. Project activities: - Preparation of business plans for agricultural enterprises of all forms of ownership for the production of agricultural crops most adapted to these soil climatic conditions.
2.5.Graduate Model	A person who, as a highly qualified specialist in accordance with the requirements of the modern labor market, has mastered the professional competencies necessary for the professional development of agriculture and was able to develop these competencies. He is also an agricultural specialist with comprehensive knowledge in the field of crop production and agriculture, able to solve complex problems in organizing and producing high-quality crop products in modern agriculture.

3.Modules and content of the educational program

Module 1. Fundamentals of social and humanitarian knowledge

Brief description of the module content

Module disciplines

Foreign language

History of Kazakhstan

Kazakh(Russian) language (1)

Bases of economics, law and ecological knowledge

Physical Culture

Foreign language

Kazakh(Russian) language (2)

The module of socio-political knowledge (sociology, political science, cultural studies, psychology)

Physical Culture

Information and communication technology

Physical Culture

World of Abai

Physical Culture

Philosophy

Module 2. Natural Science

Brief description of the module content

Module disciplines

Introduction to the specialty

Decorative crop production

Educational practice

Agrometerology

Fundamentals of scientific research in crop production

Production practice 1

Digitalization in crop production

Plant biology

Legislation in the field of crop production

Module 3. Production of crop products

Brief description of the module content

Module disciplines

The fodder base of beekeeping

Adaptive plant-grower

Forage production

Vegetable growing

Greenhouses

Aquaponics

Aeroponics

Hydroponics

Crop production

Fruit growing

Meadows and pasture farming

Estimation and setting of norms of quality of plant-grower products

Standardization and certification of crop production

Technology and storage of crop products

Module 4. Plant protection and breeding

Brief description of the module content

Module disciplines

Agricultural Microbiology

Genetic

Agricultural entomology

Agricultural Phytopathology

Biotechnology crops

Protection of crops from pests and diseases

Plant quarantine

The forecast of the development of pests and diseases

Biological protection of plants

Integrated plant protection

Production practice 2

Breeding and seed production of agricultural crops

Chemical protection of plants

Module 5. Sustainable agriculture

Brief description of the module content

Module disciplines

Bonitization and classification of soils

The Parking management in agriculture

Precision farming basics

Soil science

Agrochemistry

Agricultural reclamation

Agriculture

The agrarian economy

Agribusiness

Innovative agricultural technologies in agriculture

Management in agriculture

Methods of agricultural crops variety testing

Pre-diploma practice

Production practice 3

Final Certification

Brief description of the module content

Writing and defending a thesis or preparing and passing a comprehensive exam.

Module disciplines

Diploma work

Final examination

4.Summary table on the scope of the educational program

«6B08102 - Green fields technologies»

Name of discipline	Cycle/ Component	Term	Number of credits	Total hours	Lec	SPL	LC	IWST	IWS	Knowledge control form
Module 1. Fundamentals of social and humanitarian knowledge										
Foreign language	GER/CC	1	5	150		45		35	70	Examination
History of Kazakhstan	GER/CC	1	5	150	15	30		35	70	Qualification examination
Kazakh(Russian) language (1)	GER/CC	1	5	150		45		35	70	Examination
Bases of economics, law and ecological knowledge	GER/US	1	5	150	15	30		35	70	Examination
Physical Culture	GER/CC	1	2	60		60				Differentiated attestation
Foreign language	GER/CC	2	5	150		45		35	70	Examination
Kazakh(Russian) language (2)	GER/CC	2	5	150		45		35	70	Examination
The module of socio-political knowledge (sociology, political science, cultural studies, psychology)	GER/CC	2	8	240	30	45		55	110	Examination
Physical Culture	GER/CC	2	2	60		60				Differentiated attestation
Information and communication technology	GER/CC	3	5	150	15	15	15	35	70	Examination
Physical Culture	GER/CC	3	2	60		60				Differentiated attestation
World of Abai	BS/US	3	3	90	15	15		20	40	Examination
Physical Culture	GER/CC	4	2	60		60				Differentiated attestation
Philosophy	GER/CC	5	5	150	15	30		35	70	Examination
Module 2. Natural Science										
Introduction to the specialty	BS/US	1	3	90	15	15		20	40	Examination
Decorative crop production	BS/US	2	5	150	15	30		35	70	Project
Educational practice	BS/US	2	2	60						Total mark on practice
Agrometerology	BS/CCh	3	8	240	15	30	30	55	110	Examination
Fundamentals of scientific research in crop production	BS/US	4	5	150	15	30		35	70	Examination
Production practice 1	BS/US	4	5	150						Total mark on practice
Digitalization in crop production	BS/US	4	3	90	15	15		20	40	Examination
Plant biology	BS/CCh	5	5	150	15	30		35	70	Examination
Legislation in the field of crop production	AS/CCh	7	5	150	15	30		35	70	Examination
Module 3. Production of crop products										
The fodder base of beekeeping	BS/US	2	3	90	15	15		20	40	Essay

Adaptive plant-grower	BS/CCh	3	8	240	15	30	30	55	110	Examination
Forage production	BS/US	3	5	143	15	15	8	35	70	Examination
Vegetable growing	BS/CCh	5	5	150	15	30		35	70	Project
Greenhouses	BS/CCh	5	5	150	15	30		35	70	Examination and term work/Project
Aquaponics	BS/CCh	6	3	90	15	15		20	40	Examination
Aeroponics	BS/CCh	6	3	90	15	15		20	40	Examination
Hydroponics	BS/CCh	6	3	90	15	15		20	40	Examination
Crop production	AS/US	6	5	150	15	15	15	35	70	Examination
Fruit growing	BS/US	7	5	150	15	15	15	35	70	Examination and term work/Project
Meadows and pasture farming	AS/US	7	5	150	15	30		35	70	Essay
Estimation and setting of norms of quality of plant-grower products	AS/CCh	7	5	150	15	30		35	70	Essay
Standardization and certification of crop production	AS/CCh	7	5	150	15	30		35	70	Essay
Technology and storage of crop products	AS/US	7	5	150	15	30		35	70	Essay
Module 4. Plant protection and breeding										
Agricultural Microbiology	BS/US	1	3	90	15		15	20	40	Examination
Genetic	BS/US	3	5	143	15	15	8	35	70	Examination
Agricultural entomology	BS/CCh	3	8	240	15	30	30	55	110	Examination
Agricultural Phytopathology	BS/CCh	4	8	240	15	30	30	55	110	Examination
Biotechnology crops	BS/US	5	5	150	15	15	15	35	70	Essay
Protection of crops from pests and diseases	BS/US	5	5	150	15	30		35	70	Essay
Plant quarantine	AS/CCh	5	5	150	15	15	15	35	70	Examination
The forecast of the development of pests and diseases	AS/CCh	5	5	150	15	15	15	35	70	Examination
Biological protection of plants	BS/CCh	6	5	150	15	30		35	70	Examination
Integrated plant protection	BS/CCh	6	5	150	15	30		35	70	Examination
Production practice 2	BS/US	6	5	150						Total mark on practice
Breeding and seed production of agricultural crops	BS/US	6	5	150	15	15	15	35	70	Examination
Chemical protection of plants	BS/CCh	6	5	150	15	30		35	70	Examination
Module 5. Sustainable agriculture										
Bonitization and classification of soils	BS/CCh	4	8	240	15	30	30	55	110	Examination
The Parking management in agriculture	BS/US	4	5	150	15	30		35	70	Project
Precision farming basics	BS/CCh	4	8	240	15	30	30	55	110	Examination
Soil science	BS/US	4	5	150	15	15	15	35	70	Examination

Agrochemistry	BS/US	5	5	150	15	15	15	35	70	Examination
Agricultural reclamation	AS/CCh	5	5	150	15	15	15	35	70	Examination
Agriculture	AS/US	6	7	210	15	30	30	45	90	Examination and term work/Project
The agrarian economy	AS/CCh	7	5	150	15	30		35	70	Essay
Agribusiness	AS/CCh	7	5	150	15	30		35	70	Essay
Innovative agricultural technologies in agriculture	AS/US	7	5	150	15	30		35	70	Essay
Management in agriculture	AS/CCh	7	5	150	15	30		35	70	Essay
Methods of agricultural crops variety testing	AS/US	7	7	210	15	30	30	45	90	Examination
Pre-diploma practice	AS/CCh	8	15	450						Total mark on practice
Production practice 3	AS/CCh	8	15	450						Total mark on practice
Final Certification										
Diploma work		8	8	240						
Final examination		8	8	240						

NJSC"UNIVERSITYNAMED AFTER SHAKARIM OF SEMEY CITY "

DEVELOPMENTPLAN OF EDUCATIONALPROGRAM
«6B08102 - Green fields technologies»
for2024-2028years

Semey 2024

Content

1. Passport of thedevelopment planof the educational program «6B08102 - Green fields technologies»

1	Basis for development	Development program of the Non -Profit Limited Company «Shakarim University of Semey» for 2023-2029. Faculty work plan
2	Timingimplementation	2024-2028gg.
3	Expected resultsimplementation	- provision of educational services at the level of world educational standards that ensure the competitiveness of graduates in the labor market; - training of intellectually developed, creative specialists by integrating the educational process, scientific research, and innovation; - training of qualified and competitive personnel for agriculture in accordance with the requirements of national and international standards

2. Analyticaljustification EP

2.1 Informationaboutthe educationalprogram

The educational program is developed in accordance with the National Qualifications Framework and professional standards, in accordance with the Dublin Descriptors and the European Qualifications Framework.

The typical term for mastering the educational program of a bachelor's degree is 4 years.

EP "6B08102 - Green fields technologies " was developed by the Academic Committee.

The main criterion for the completion of the educational process is the development of at least 240 credits, with the award of the degree "Bachelor of Agriculture in the educational program" 6B08102 - Green fields technologies ".

2.2 Informationaboutstudents

Academic year / Foundation of	2024-2025 academic year	2025-2026 academic year	2026-2027 academic year	2027-2028 academic year
Grant	15	17	19	20
Contract	3	5	5	5
Total	**18**	**22**	**24**	**25**

2.3 Internalandexternalconditionsfordevelopment EP

The teaching staff of the department is regularly engaged in the release of educational and methodological literature in the state language on the EP " Green fields technologies ". The educational portal of the university also presents educational materials of disciplines in electronic format in the Kazakh language.

Professional practices of students are carried out in accordance with the approved end-to-end program of practices and generally meet the qualification requirements for training specialists in this field.

Issues of vocational training, professional practice and employment of graduates are resolved at the department with the obligatory participation of employers. Every year, round tables are held at the department, in which heads and representatives of city and district akimats, agricultural enterprises take part. The department organizes meetings with graduates-employers, seminars with practitioners.

The educational department "Agriculture and bioresources" cooperates with the Agrarian University of Plovdiv, (Bulgaria), Russian State University named after Timiryazev, Voronezh State Agrarian University, Bashkir State Agrarian University, Novosibirsk State Agrarian University, Omsk State Agrarian University.

According to the agreement between universities, EP students undergo academic mobility training. Over the past five years, students have studied academic mobility at the North Kazakhstan State University named after M. Kozybayev, NJSC "Toraigyrov University", "South Kazakhstan University named after M. Auezov". In the future, academic mobility of students in foreign universities is planned.

Sociological surveys are conducted annually, for example, graduates of the Shakarim University of Semey, "On working conditions and the quality of management of the educational process in the NAO Shakarim University of Semey", "Population,

employers of Semey on the quality of education and the demand for specialists, including .h. NAO Shakarim University of Semey city", "Teaching staff on readiness and problems in updating the EP". During the monitoring, the results were obtained in the form of the opinion of the inhabitants of the region about the competencies of graduates of the NJSC Shakarim University of Semey, including the educational programs of the educational department "Agriculture and Bioresources". The results of the study will be aimed at further improving the system of competencies of the above educational programs.

The Department of Agriculture and Bioresources cooperates with the Agricultural University of Plovdiv, (Bulgaria), the Russian State University named afterTimiryazev, Voronezh State Agrarian University, Bashkir State Agrarian University, Novosibirsk State Agrarian University, Omsk State Agrarian University, Altai State University Barnaul.

In March 2019, a memorandum of cooperation was signed with the Kazakh National Agrarian University, and in 2022, East Kazakhstan Agricultural Experiment Station LLP.

In the 2022-2023 academic year, the Department of Agriculture and Bioresources introduced elements of dual education for 2.3 year students. The agreement was concluded with the East Kazakhstan Fruit and Vegetable GSU branch of the State Agricultural University "State Commission for Variety Testing of agricultural crops" of the Ministry of Agriculture of the Republic of Kazakhstan and the State University "Republican Methodological Center for Phytosanitary Diagnostics and Forecasting" KGI in the Agroindustrial Complex of the Ministry of Agriculture of the Republic of Kazakhstan in the Abai region. The department has developed a Regulation on the establishment of a branch of the department.

Practice bases for OP 6B08101 – Agronomy:

1. East Kazakhstan zonal quarantine laboratory branch of the State Institution "Republican Plant Quarantine Center" KGI in the agro-industrial complex of the Ministry of Agriculture of the Republic of Kazakhstan;
2. Republican Methodological Center for phytosanitary diagnostics and forecasts of CGI in the agroindustrial complex of the Ministry of Agriculture of the Republic of Kazakhstan;
3. K/x "Balka" village Birlik, Beskaragaysky district, region.Abai;
4. K/h "Bektemirov" Semey, Abai region;
5. K/h "Lana", Beskaragai district, Abai region;
6. Semey Tazalyk LLP, Semey, Abai region;
7. LLP "QAZAQ ASTYQ GROUP" Semey, Abai region;
8. East Kazakhstan fruit and Vegetable GSU branch of RSU "State Commission for variety testing of agricultural crops" Ministry of Agriculture of the Republic of Kazakhstan;

9. East Kazakhstan Agricultural Experimental Station LLP, Opotnoye Pole settlement, Glubokovsky district, East Kazakhstan region;
10. "Smart Agro Farm" KH, Semey.

2.4 Information about the teaching staff implementing the educational program

№	Indicators	Unit.	2024-2025 academicyear	2025-2026 academicyear	2026-2027 academicyear	2027-2028 academicyear
1	The proportion of teaching staff with a degree in EP.	%	**56**	**60**	**65**	**75**
2	Including the share of teaching staff with a degree in the OOD cycle	%	**10**	**11**	**12**	**13**

2.5 Characteristics of the achievements of the EP

OP "6B08102 - Green fields technologies" in the rating of educational programs of universities in 2023 took the 9th place and entered the TOP 10 of the OP.

3. Three Main objectives of the EP development plan

The following tasks are defined for the effective implementation of the OP:

№	Name of the task	Terms of development	Stages of development
1	Improving and improving the conditions for obtaining a full-fledged, high-quality professional education.	The entire period of study.	Development of measures to improve educational services for the development of professional skills.
2	Updating the content of educational programs that form the main professional competencies of future agricultural specialists.	The entire period of study.	When updating the content of educational programs, include disciplines recommended by employers
3	Creation of prerequisites for independent search and research activities of the student within the framework of the experiment at all stages of training.	The entire period of study.	The inclusion of research and experimental work in the study of educational programs
4	Development of measures for mastering the work with scientific and technical information using domestic and foreign experience in professional activities.	The entire period of study.	Carrying out activities for the analysis and processing of the results obtained

5	Consultations of employers and scientists of the Research Institute in the selection of relevant and practically significant research topics.	Completion of undergraduate studies.	Proposals from employers, stakeholders and management advice

4 Risk analysis of the OP

№	Name of risks	Elimination measures
1	Decrease in the number of students enrolled in the OP	Regular high-quality career guidance
2	Insufficient knowledge of the language for the introduction of multilingualism.	Increasing the participation of students and teachers in language courses
3	Decrease in the level of employment	Communication with institutions and organizations that have a high opportunity for practical training and further employment
4	Insufficient development of external and internal academic mobility of students and teaching staff	Increasing the involvement of teaching staff and students in external and internal academic mobility
5	The risk of reducing the stability of the PPP in the PLO	An increase in the number of teaching staff enrolled in the targeted doctoral program, the activation of the work of teachers who do not have an academic title
6	Low number of publications in cited journals	Increasing the number of articles in scientific journals
7	Lack of funded research topics.	Increasing the number of projects on research topics

5. Action plan for the development of the EP

№	Criteria	Expectedresults	Unitrev.	2024 -2025	2025 -2026	2026 -2027	2027 -2028
Direction 1. Educational and methodological support							
1.1	Educational update programs based on professional standards, taking into account the recommendations of employers	Conducting an examination of the educational program "6B08102 - Green fields technologies" in order to increase practice orientation and development professional competencies of graduates	Fact...	+	+	+	+

1.2	Monitoring and updating catalogs of elective disciplines in accordance with the development of key and professional competencies, labor market demands	Improving the quality of the content of educational programs by including elective courses aimed at developing key and professional competencies In graduates in accordance with the demands of the labor market.	Fact...	+	+	+	+
1.3	Introduction to the educational process of modern learning technologies that contribute to the development of cognitive activity, and the communicative ability of students.	Improving the quality of teaching academic disciplines, taking into account the novelty and diversity of forms of work that contribute to the development of cognitive activity.	Fact...	+	+	+	+
1.3.1	Implementation of Massive Open Online Courses (MOOCs) in the educational process of the educational program "6B08102 - Green fields technologies "	Introduction to the educational process of disciplines. Improving the quality of teaching academic disciplines, taking into account the novelty and diversity of forms of work that contribute to the development of cognitive activity.	person	-	-	1	1
1.4	Involvement of social partners and employers in the development, examination of the implementation of educational programs образовательныхпрограмм	Improving the quality of ongoing educational programs, taking into account market demands and employers' recommendations	units.	1	1	2	2
1.5	Development and implementation of elective courses in English	Introduction to the educational process of disciplines in English	units.	-	-	1	1
1.6	Conducting seminars and round tables on the use of innovative technologies in the educational process.	Implementation of innovative technologies in the educational process	person	1	2	2	2
1.7	Publication of educational, educational-methodical and scientific literature on implemented EPs.	Improvement of educational and methodological support in the disciplines of ongoing educational programs	units.	**1**	**1**	**2**	**2**
1.8	Conclusion of agreements with foreign and domestic universities - partners in order to develop the academic exchange of students of all levels and teaching staff	Creation of a database of foreign and domestic universities - partners for the development of academic exchange of students of all levels and faculty	units.	**1**	**1**	**1**	**2**
1.9	Invitation of students from partner universities to study for a semester, short-term internships, practice, etc.	Development of international recognition of educational programs, implementation of academic mobility programs for students	person	-	-	**1**	**1**
1.10	Participation of teaching staff and students in international academic exchange programs	Development of international cooperation with foreign universities implementing educational programs in the direction Green fields technologies	person	-	**1**	**1**	**1**

1.11	Development of outgoing academic mobility of teaching staff and students in the direction Green fields technologies	Improving the educational program based on the use of experience in the implementation of similar programs in the leading universities of the Republic of Kazakhstan	person	-	**1**	**1**	**2**
Direction 2. Teaching staff.							
2.1	Professional development and training of scientific and pedagogical personnel for the implementation of educational programs once every 5 years	The share of teaching staff who have undergone advanced training at the republican level is at least 20%	person	-	**1**	**1**	**1**
2.2	Passage of advanced training, retraining, internships of teaching staff at the international level	Passage of at least 2 teachers of the advanced training program, retraining, internship of teaching staff at the international level	person	-	-	**1**	**1**
2.3	Promotion of publications of the teaching staff's works in international publications indexed by the Web of Science and Scopus databases	Increase in the share of teaching staff who published the results of scientific research in publications indexed by the Web of Science and Scopus databases - at least 30% of the total number of teaching staff	person	-	**1**	**1**	**1**
2.4	Involvement of specialists in the practical field of activity in teaching and scientific activities	Participation in the implementation of educational programs of practitioners (at least 20% of specialists)	person	-	**1**	**1**	**2**
Direction 3. Internationalization of educational programs							
3.1	Conclusion of agreements on international cooperation with foreign universities	Implementation of joint projects, preparation of scientific publications with foreign partners, creation of bases for scientific internships for students	units.	-	-	**1**	**1**
3.2	Attracting foreign students to study under the educational program "6B08102 - Green fields technologies"	Increasing the number of foreign students	person	-	-	**1**	**1**
3.3	Organization of joint scientific and practical events with international partners	Increasing the efficiency of scientific and scientific-methodical activities of teaching staff, exchange of experience with foreign partners	units.	-	-	**1**	**1**
3.4	Invitation of foreign experts for lectures and consultations on master's projects and dissertations	Improving the content component of educational programs based on the introduction of the experience of foreign specialists in the implementation of educational programs	units.	-	-	**1**	**1**

3.5	Expansion of cooperation with leading foreign scientific and educational organizations in order to attract the most qualified foreign specialists to the implementation of educational programs	Formation of key and professional competencies in accordance with the practice of leading universities	person	-	-	1	1
Direction 4. Logistics and digitalization							
4.1	Stage-by-stage equipping of classrooms with technical teaching aids (projectors, panels, interactive and multimedia boards, multifunctional devices, webcam, projector screen, etc.)	Equipping classrooms assigned to the department with technical teaching aids (projectors, panels, interactive and multimedia boards, multifunctional devices, webcam, projector screen, etc.)	units.	1	1	1	1
4.2	Carrying out automation of the educational process (testing, session management, movement of the contingent of students, dean's office, department, teaching staff load, schedule, library, syllabuses)	Information management based on the automation of the educational process (testing, session management, student movement, dean's office, department, teaching staff load, schedule, library, syllabuses)	%...	100 %	100 %	100 %	100 %
4.3	Replenishment of the full-text database of scientific research results	An increase in the number of results of scientific works of scientists, research of teaching staff and students, teaching staff (articles, monographs, etc.)	units.	1	1	2	2
4.4	Teaching staff and students, teaching staff (articles, monographs, etc.) Expansion of the fund of scientific and educational literature, including on electronic media on ongoing educational programs	Ensuring the implementation of educational programs based on modern educational and information resources, including on electronic media	%	100 %	100 %	100 %	100 %
4.5	Monitoring the filling and improvement of the faculty website	Formation of the website of the faculty on various aspects of the implementation of educational programs.	%	100 %	100 %	100 %	100 %

Head of the Department _____ **B.Ahmetova**

CONSIDERED

At the meeting of the Commission on Academic Quality
of the Research School of Veterinary Medicine and Agriculture
Chairman of the Commission _____ G. Jamanova
No. 6 "06" 06 2024

AGREED BY

Dean of the RSchVMA _____ N. Yesengulova
"06" 06 2024