



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR
ACCREDITATION AND RATING

REPORT

on the results of the work of the external expert commission
for evaluation of compliance with the standards of specialized
accreditation of the educational program

6B05201-Ecology (reaccreditation)

7M05204-Ecology (reaccreditation)

8D05204 -Ecology (reaccreditation)

6B08104 - Plant Protection and Quarantine (reaccreditation)

7M08104- Plant Protection and Quarantine (reaccreditation)

8D08104- Plant Protection and Quarantine (reaccreditation)

KAZAKH NATIONAL AGRARIAN RESEARCH UNIVERSITY
in the period from December 2 to December 4 , 2020

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
External expert commission

Addressed to
IAAR
Accreditation Council



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Almaty city, 2020

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(I) LIST OF SYMBOLS AND ABBREVIATIONS

MES RK	Ministry of Education and Science of the Republic of Kazakhstan
MA RK	Ministry of Agriculture of the Republic of Kazakhstan
NAS RK	National Academy of Sciences of the Republic of Kazakhstan
NJSC	Non-profit Joint Stock Company
KazNARU	Kazakh National Agrarian Research University
AU	Kazakh National Agrarian University
Committee CPC	Committee Curriculum and Program Committee
KazRIAPB	Kazakh Research Institute of Agriculture and Plant Breeding
IACEPM	Information and analytical complex for educational process management
RLD	regulatory and legal documents
EP	educational program
GED	general education disciplines
IWSUGT	independent work of a student under the guidance of a teacher
BD	basic disciplines OP
PD	profile disciplines
RO	Registrar's office
SC	standard curriculum OP
WC	working curriculum
RDW	Research and development work
QMS	quality management system
TS	Teaching staff
EMCD	educational and methodical complex of the discipline
EMCS	educational and methodical complex of the specialty
IWSWT	independent work of a student with a teacher
UNT	unified national testing
CT	comprehensive testing
IWS	independent work of the student
RDWS	Research and development work of a student
SAC	State Attestation Commission
RL	Research Laboratory
SRI	Scientific Research Institute
CED	catalog of elective disciplines
IMWP	individual master's work plan
IWPDS	individual work plan of a doctoral student

(II) INTRODUCTION

In accordance with Order № 121-20-OD dated 10.11.2020 of the Independent Agency for Accreditation and Rating, from December 02-04, 2020, an external expert commission assessed the compliance of educational programs 6B05201/7M05204/8D05204 - Ecology, 6B08104/7M08104/8D08104 - Plant protection and quarantine in the NAO "Kazakh National Agrarian Research University" (KazNARU) (Almaty) The standards of specialized accreditation of the IAAR (№. 10-17-OD dated February 24, 2017, fifth edition).

The report of the external Expert Commission (EC) contains an assessment of the submitted educational programs by the criteria of the IAAR standards, recommendations of the ECC on further improvement of educational programs and parameters of the profile of educational programs.

The composition of the VEC:

1. **Chairman of the IAAR Commission** - Svetlana Nikolaevna Shlapakova, Vice-Rector for Education and Youth Policy, PhD, Associate Professor, Bryansk State University of Engineering and Technology (Bryansk, Russian Federation);

2. **Foreign expert of IAAR** – Oleg Viktorovich Sozinov, Doctor of Biological Sciences, Docent, Yanka Kupala Grodno State University (Republic of Belarus, Grodno);

3. **Foreign expert of IAAR** - Leonid Volosciuc, doctor as sciences (habilitat) in biology, professor, Institute of Genetics, Physiology and Plant Protection of the Academy of Sciences of the Republic of Moldova (Laboratory manager of the Institute of Genetics, Physiology and Plant Protection of the Academy of Sciences of Moldova) (Republic of Moldova, Chisinau);

4. **Foreign expert of IAAR** - Tatyana Leonidovna Ishchenko, Candidate of Technical Sciences, Dean of the Forestry Faculty of the Voronezh State Forestry University named after G.F. Morozov (Voronezh, Russian Federation);

5. **IAAR expert** - Stybaev Gani Zhasymbekovich, Candidate of Agricultural Sciences, Professor, Kazakh Agrotechnical University named after S.Seifullin (Nur-Sultan);

6. **IAAR expert** - Baytelenova Aliya Askerovna, Candidate of Agricultural Sciences, Kazakh Agrotechnical University named after S. Seifullin (Nur-Sultan);

7. **IAAR expert** - Aldungarova Aliya Kairatovna, PhD, Associate Professor, Toraigyrov University (Pavlodar);

8. **IAAR expert** - Nurgaliyev Akylbek Muratovich, Candidate of Agricultural Sciences, Associate Professor, West Kazakhstan Agrarian and Technical University named after Zhangir Khan;

9. **The employer of IAAR** is Ualkhanov Baizhan Nurbayevich, General Director of Pavlodarskaya Agricultural Experimental Station LLP (Pavlodar);

10. **IAAR student** - Alibekova Kamilla Kanatovna, 2nd year doctoral student (PhD) EP 6702V004 - International Development Studies (direction: Land use, degradation of saline lands), Palacki University (Olomouc, Czech Republic);

11. **IAAR student** - Kakimova Madina Aitbayevna, 4th year student of the EP "Ecology", L.Gumilyov Eurasian National University, Representative of the Alliance of Students of Kazakhstan (Nur-Sultan);

12. **IAAR student** - Izbasar Altynai Khasenkyzy, 4th year student of the EP "Forest Resources and Forestry", Kokshetau University named after Sh. Ualikhanov, Representative of the Alliance of Students of Kazakhstan (Kokshetau);

13. **The observer from the IAAR Agency** is Timur Yerbolatovich Kanapyanov, PhD, Head of International Projects and Public Relations at the NAAR (Nur-Sultan).

(III) DESCRIPTION OF THE EDUCATIONAL ORGANIZATION

Kazakh National Agrarian Research University (KazNAIU, university, University) it was founded in 1996 on the basis of two institutes: the Almaty Veterinary Institute (founded in 1929) and the Kazakh Agricultural Institute (founded in 1930). The rector of the Kazakh State Agrarian University was appointed a major figure of the higher school and science of the republic, academician of the National Academy of Sciences of Kazakhstan Sagadiev K.A.

In 2001, by Decree of the President of the Republic of Kazakhstan N.A. Nazarbayev, the organization of education was awarded the status of a National University.

Since 2001, the university has started the process of integrating education, science and production. For this purpose, the Agricultural Research and Production Consortium "AgroDamu" was created. The Higher School of Farmers provides consulting services to rural entrepreneurs in 9 regions and 88 districts of the republic. The International Association "Agroeducation" and the Moscow Academy have been established, which carry out a continuous system of agricultural education: school (lyceum) - college - university.

Since 2010, the university has begun the process of transformation into a national research university based on international standards of project management with the support of experts from the best foreign research centers and universities. In 2010, the university was awarded the status of an innovation-oriented university.

A new round of development of the university was the fact that in 2015, in accordance with the decree of the Government of the Republic of Kazakhstan dated April 14, 2015 № 226, the Republican State Enterprise on the right of economic management "Kazakh National Agrarian University" was transferred from the jurisdiction of the Ministry of Education and Science to the Ministry of Agriculture of the Republic of Kazakhstan.

In accordance with the Decree of the Government of the Republic of Kazakhstan dated August 22, 2015 № 659, RSE "KazNAU" became part of the NAO "National Agrarian Scientific and Educational Center" under the Ministry of Agriculture of the Republic of Kazakhstan and reorganized into an NAO with 100% state participation in the authorized capital. This made it possible for the university to gain academic freedom, switch to autonomy, and implement the principles of self-financing using the mechanisms of public-private partnership.

On the recommendation of the Department of the Ministry of Agriculture (USDA, USA) and based on the experience of the leading research centers INRA (France), INTA (Argentina), EMBRAPA (Brazil), an International Agrotechnological Hub was created at the University, whose mission is to search, attract and transfer the best innovative technologies and new knowledge in the agro-industrial complex. The Agrohab includes: 7 research institutes, 49 research laboratories, 18 international research centers opened within the framework of real scientific projects with countries such as the USA, the Netherlands, Italy, France, Spain, South Korea, Malaysia, China, Russia, Belarus, etc. The laboratories are accredited by international agencies and are open for collective use by scientists of universities, research institutes and agricultural formations.

KazNAIU passed the procedure of institutional accreditation in the OUL of the Kazakh-stan Association of Engineering Education KAZSEE. Certificate of Accreditation No. 1920 KE 0025 (12.06.2019-12.06.2024).

Currently, the university cooperates with 137 leading universities and scientific centers of the world. He is a member of 15 international associations and organizations for higher education and science:

- GCHERA-Global Consortium of Agricultural Universities and Science;
- Association of European Life Sciences Universities (ICA);
- Magna Charta Universitatum (Magna Charta Universitatum);
- Visegrad University Association;
- IREG International Observatory Forum;
- Association of European Universities (EUA);
- Council of Rectors of the leading agricultural universities of the CIS member states;

- Association of Universities of the Asia-Pacific Region (AUAP);
- CASCADE - Consortium of Agricultural Universities of Central Asia and the South Caucasus (CASCADE);
- Association of Universities "Eurasia-Pacific Uninet" (Ministry of Science and Education of Austria);
- Vetstambul Group Vetstanbul Group;
- United Nations Initiative "Interaction with Academia (UNAI)";
- International rating organization Green Metric World University Ranking;
- The Silk Road Universities Network (The Silk-road Universities Network - SUN);
- World Wind Energy Association /WWEA, Sweden).

The university implements 11 double degree programs with leading partner universities. 4 leading scientists were awarded the Al-Farabi State Prize in Science and Technology, 3 State scientific scholarships, and 1 young scientist of the university was awarded a grant from the N.Nazarbayev Foundation. At the XIV republican meeting of youth labor groups "Zhasyl El", the university was recognized as the "Best educational institution" of the country. The university joined the League of Academic Integrity in order to improve the quality of education through the introduction of the principles of academic integrity and intolerance to its violations.

As a result of systematic work, the university occupies a place in 9 international and national rankings. Over the past year, the university has made a big leap, climbed 60 positions and took 591st place. The goal is to become a world-class university with a QS-400 rating by 2024.

In accordance with the State License № KZ42LA00006720 dated 25.03.2016, KazNARU conducts educational activities in 45 bachelor's degree programs, 129 master's degree programs and 35 PhD doctoral programs.

According to the information on the university's website, today there are 5 faculties in the structure of the university: "Agrobiology", "Technology and Bioresources", "Veterinary Medicine", "Water, land and forest resources", "IT technologies, automation and mechanization of the agro-industrial complex", Higher School of Business and Law, Institute of SRS, there is a Military department, more than 8 thousand people study at 5 faculties, 1 higher school and 1 institute of 31 departments, including 1.2 thousand undergraduates and PhD doctoral students.

Personnel training is carried out by 848 teachers, including 8 academicians of the National Academy of Sciences of the Republic of Kazakhstan, 91 Doctors of Sciences, 260 Candidates of Sciences, 79 PhD and 260 masters. The share of teachers with academic degrees and titles from the number of full-time teachers is 55%.

Library resources. The structure of the KazNARU scientific library includes 5 departments, readers are served in 2 subscriptions and 12 reading rooms. There are 6 reading rooms in the academic buildings of the university and 6 reading rooms are located in the houses of students. The library's book fund as of 01.01.2020 is 1084154 copies. books / 133024 titles, including on kaz.yaz - 715817 copies, in Russian. language – 234452 copies, on in. language – 133885 copies.

The electronic catalog and electronic resources of the library for 2020 number more than 700,000 copies.

The contingent of students (Table 7) accredited as of December 01, 2020 is:

- EP 6B05201 - "Ecology" - 125 students, including 101 in the state language, of which: 82 people on the basis of a state educational grant, 43 on a commercial basis, full-time education - 112 students, distance learning - 13 students;

- EP 7M05204 - "Ecology" - 12 undergraduates, including 12 in the state language, of which: on the basis of a state educational grant – 11 people, on a contractual basis - 1 undergraduate;

- EP 8D05204 - "Ecology" - 4 doctoral students, including 4 in the state language, of which: on the basis of a state educational grant – 4 people;

- EP 6B08104 - "Protection and quarantine of plants" - 253 students, including 246 in the state language, of which: 226 people on the basis of a state educational grant, 27 on a commercial basis, full-time education - 242 students, distance learning - 11 students;

- EP 7M08104 - "Protection and quarantine of plants" - 24 undergraduates, including in Russian - 24, of which: on the basis of a state educational grant – 24 people;
- EP 8D08104 - "Protection and quarantine of plants" - 25 doctoral students, including in Russian - 25 of them: on the basis of a state educational grant - 25 people.

Currently, the training of bachelors, masters and doctoral students accredited by EP 3 cluster is carried out on the basis of license № KZ42LA00006720 dated 25.03.2016, issued by the Committee for Control in the Field of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan dated July 03, 2011 and appendices no. 009, 010, 011 dated 27.03.2019 for educational activities, Astana.

Information about the Department of Ecology

The training of specialists accredited by EP 6B05201/7M05204/8D05204 - "Ecology" is carried out at the Department of Ecology, which was established in 1990, for the first time among the Republics of Central Asia and Kazakhstan, with the title "Agricultural Ecology and environmental Economics". Since 2001, a postgraduate course has been opened at the department and a dissertation council has been established in the specialty 06.00.16 - Ecology. In 2002, a master's degree in the specialty "Agroecology and sustainable management of natural Resources" was opened on the basis of the Department of Ecology. Since 2004, for the first time at the university, an experimental PhD training program has been opened at the department. In September 2004, the name of the department was renamed to "Ecology", in connection with this, since 2005, the magistracy has been functioning within the framework of the state budget in the specialty 6N0608 – Ecology. From the moment of organization to August 2008, the department was part of the Forestry Faculty, and since 2008 she was transferred to the Faculty of Agronomy, Agrochemistry and Plant Protection. In 2011, a pilot department called "Soil Science, Agrochemistry and Ecology" was organized at KazNARU, combining the departments of "Ecology" and "Agrochemistry and Soil Science", in September 2014 the department was reorganized from the Department of "Soil Science, Agrochemistry and Ecology" into the Department of "Ecology". In September 2016, the Department of Ecology and the Department of Fruits and Vegetables were merged and renamed the Department of Fruits, Vegetables and Ecology. In September 2017, the department was redistributed from the departments of "Fruits, Vegetables and Ecology" to the Department of "Ecology".

- Code and classification of the field of education, areas of training EP 6B05201 - "Ecology": 6B05 – Natural sciences, mathematics and statistics, 6B052 - Environment. Trajectories – "Ecology and nature management", "Ecological tourism". Training on EP 6B05201 - "Ecology" is carried out full-time on the basis of general secondary, with a shortened training period. For the mastered educational program, the graduate of the bachelor's degree is awarded the academic degree "Bachelor of Natural Sciences" in the EP. The training is carried out in the state and Russian languages. The standard period of study on the basis of general secondary education is 4 years.

- Training of students is carried out in 2000 with a degree 050900 – "Applied ecology" (profile, 1 year of study), 2009 5N0608 – Ecology - research and teaching, 2 years of study), 2010 – 6M060800 Ecology, 2019 - 7M05204 "Ecology". The code and classification of the field of education, the areas of training of the EP: 7M05 - Natural sciences, mathematics and statistics, 7M052 - Environment. Trajectories: "Agroecology", "Environmental protection". The degree awarded is a Master of Natural Sciences in EP (scientific and pedagogical direction – 2 years).

- Since 2007, doctoral students have been trained in the specialty 6D060800/8D05204 - "Ecology". The direction of training of the EP: 8D052 - Environment, field of education: 8D05 - Natural sciences, mathematics and statistics (scientific and pedagogical direction). Degree awarded: Doctor of Philosophy (PhD) according to EP 8D05204. EP 8D05204 "Ecology" has 3 trajectories: "Environmental protection and rational nature management", "Ecology and environmental monitoring", "Soil and environment".

Qualitative and quantitative composition of teachers of the department (Table 13):

The full-time staff of the Department of Ecology in the 2020-2021 academic year includes 17 teaching staff, including: 1 - Doctor of Sciences, 5 - candidates of Sciences, PhD - 1, masters -

8. The percentage of settling down in the department as a whole is 42%, according to teaching staff implementing EP 6B05201 "Ecology" – 50%, EP 7M05204 - "Ecology" - 100%, 8D05204 - "Ecology" - 100%. The average age of teaching staff at the department is 44 years.

Employment of graduates of the last three years according to accredited cluster options:

- 6B05201 - "Ecology" - year of graduation: 2018 - 83 %, 2019 - 68 %, 2020 – 53 %;
- 7M05204 - "Ecology" - year of manufacture - 2018 - 64 %, 2019 - 100 %, 2020 - 67 %.
- 8D05204 - "Ecology" - year of manufacture - 2018 - 100 %, 2019 - 100 %, 2020 - 100 %.

Academic mobility according to accredited cluster options for the period 2015-2020. (Table 10):

- 6B05201 - "Ecology" - outgoing external - 1, 7M05204 – "Ecology" - outgoing external -2.

Information about the Department "Plant Protection and Quarantine"

The training of specialists of the accredited EP 6B08104/7M08104/8D08104 - "Plant protection and quarantine" is carried out at the Department of Plant Protection and Quarantine, which was established at the Kazakh State Agricultural Institute in 1963 at the Faculty of Plant Protection during the initial functioning of the departments of Entomology and Phytopathology. In 1996, the departments, during the transformation of the university, were merged into a single one, under the name "Plant Protection". In 2002-2004, the training of plant protection specialists was carried out in the context of the specialty "Agrochemistry and plant protection". In 2009, the specialty "Plant protection and quarantine" was restored in the new classifier.

- Code and classification of the field of education, areas of training EP 6B08104 - "Protection and quarantine of plants": 6B08 - Agriculture and bioresources, 6B081 - Agronomy. Trajectories: "Entomology", "Phytopathology". Training on EP 6B08104 - "Protection and quarantine of plants" is carried out full-time on the basis of general secondary, with a shortened training period. For the mastered educational program, the graduate of the bachelor's degree is awarded the academic degree "Bachelor of Agriculture" in the EP. The training is carried out in the state and Russian languages. The standard period of study on the basis of general secondary education is 4 years.

- Preparation of undergraduates of EP 7M08104 - "Protection and quarantine of plants" has been carried out since 2019. Code and classification of the field of education, areas of training EP 7M08104 - "Protection and quarantine of plants": 7M08 - Agriculture and bioresources, 7M081 - Crop production. Trajectories – "Modern plant protection", "Management of pesticides and their application". The degree awarded is Master of Agricultural Sciences in EP (scientific and pedagogical direction - 2 years, profile direction 1.5 years), Master of Agriculture in EP (profile direction 1 year).

- Preparation of doctoral students of the specialty 8D08104 - "Protection and quarantine of plants" is carried out in the direction of training EP: 8D081 – Crop production, code and classification of the field of education: 8D08 – Agriculture and bioresources (scientific and pedagogical direction). Degree awarded: Doctor of Philosophy (PhD) in EP. EP 8D08104 - "Plant protection and quarantine" has 2 trajectories: "Innovative methods of protecting crops and forest plantations from pests", "Innovative methods of protecting crops and forest plantations from diseases".

Qualitative and quantitative composition of teachers of the department (Table 13):

The full-time staff of the Department of Plant Protection and Quarantine in the 2020-2021 academic year includes 34 teaching staff, of which: 16 candidates of sciences, PhD - 4, masters - 11. The percentage of settling down in the department as a whole is 59%, according to the teaching staff implementing EP 6B08104 – "Plant protection and quarantine" – 59%, EP 7M08104 – "Plant protection and quarantine" - 100%, 8D08104 - "Plant protection and quarantine" - 100% . The average age of teaching staff at the department is 48 years.

Employment of graduates of the last three years according to accredited cluster options:

- 6B08104 - "ZiKR" - year of graduation - 2018 - 92 %, 2019 - 95 %, 2020 – 90 %;
- 7M08104- "DHIKR" - year of manufacture - 2018 - 100 %, 2019 - 100 %, 2020 – 89 %;
- 8D08104 - "DHIKR" - year of manufacture - 2018 - 100 %, 2019 - 100 %, 2020 – 100 %.

Academic mobility according to accredited cluster options for the period 2015-2020. (Table 10):

- 6B08104 - "Protection and quarantine of plants" - outgoing external - 8, 7M08104 – "Protection and quarantine of plants" - incoming internal - 1.

Commercialized R&D PPS 3 clusters.

1) Department of "Ecology":

- The introduction of resource-saving technologies of cultivation of soybean under irrigated condition, 4.5 million tenge grant of the MES RK, 2015-2016, scientific supervisor – N. Suleimenov.Sh.

- Development of scientific bases for monitoring the effectiveness of plant systems and technologies for the reduction of CO₂ concentrations in the atmosphere of a large urbanized territories, 2 million tenge (grant MES, 2015-2016, scientific supervisor – N. Suleimenov.Sh.

- Improving measures to combat weeds on soybean crops in the system of short-rotational rotation in the conditions of South-Eastern Kazakhstan, 4.05 million tenge grant of the MES RK, 2016-2017, scientific supervisor – N. Suleimenov.Sh.

- The development of agriculture and the safety of crop production in the conditions of South-Eastern Kazakhstan in global climate change, 60 million tenge grant of the MES RK, 2017-2018, scientific supervisor – N. Suleimenov.Sh.

- BR05236444 "Testing of innovative technologies in the development of horticulture in arid regions of Kazakhstan" 1.1.1. according to the priority "Rational use of natural resources, including water resources, geology, processing, new materials and technologies, safe products and structures", 30 million tenge, grant of the Ministry of Education and Science of the Republic of Kazakhstan, 2018-2019, scientific supervisor - Suleimenova N.Sh.

- The effectiveness of innovative technology in solving environmental problems of the agro-ecosystem in soybean cultivation in the south-East of Kazakhstan, 3.29 million tenge, grant of the Ministry of Education and Science of the Republic of Kazakhstan, 2019-2020, scientific supervisor - N.S. Suleimenova.

2) Department of "ZRIK"

- Production and registration tests of chemicals on the territory of the Republic of Kazakhstan, more than 160 million tenge, 2017-2020, Scientific supervisors - Agibaev A.Zh., Khidirov K.R.

(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCESS

In accordance with the order of the Independent Accreditation and Rating Agency on November 10-12, 2015 The Kazakh National Agrarian University external expert commission assessed the compliance of educational programs 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - " Plant protection and quarantine ", the standards of specialized accreditation of the NAAR (dated April 26, 2012 № 08-OD, second edition).

On December 24, 2015, by the decision of the Accreditation Council, educational programs were accredited for a period of 5 years.

The composition of the previous EEC:

1. Chairman of the commission - Bakushev Askar Asilgalievich, Candidate of Technical Sciences, West Kazakhstan Agrarian and Technical University named after Zhangir Khan;

2. Foreign expert - Salnikov Elmira (Saljnikov Elmira), Ph.D.D, Leading Researcher at the Research Institute of Soil Science (Belgrade, Republic of Serbia);

3. Foreign expert - Alyona Yurievna Levykh, PhD, Associate Professor, branch of the Tyumen State University (Ishim, Russia);

4. Expert - Ibadullayeva Saltanat Zharylkasymovna, PhD, Professor, Korkyt-Ata Kyzylorda State University;

5. Expert - Stybaev Gani Zhasymbekovich, Candidate of Agricultural Sciences, Associate Professor, Kazakh Agrotechnical University named after S.Seifullin;

6. Expert - Sattybayeva Zeinigul Jumabekkyzy, Associate Professor, Candidate of Agricultural Sciences, Kokshetau State University named after Sh. Ualikhanov;

7. Expert - Kapar Shakimovich Aryngazin, Ph.D., Professor, S. Toraihyrov Pavlodar State University;

8. Expert - Clara Zhamanbaevna Turebaeva, Doctor of Pedagogical Sciences, Professor, Aktobe Regional University named after To Zhubanova;

9. Expert - Yeszhanov Galikhan Serdalinovich, PhD, Associate Professor, Kokshetau State University named after Sh. Ualikhanov;

10. Expert - Ualkhanov Baizhan Nurbayevich, Candidate of Technical Sciences, Associate Professor, T.K. Zhurgenov Kazakh National Academy of Arts;

11. Employer - Saparov Galymzhan Abdullayevich, Candidate of Agricultural Sciences, Head of the Department "Agrochemistry" of the Kazakh Research Institute of Soil Science and Agrochemistry named after U.U. Uspanov (Almaty);

12. Student - Mekesov Shamshinur Askaruly, 3rd year student of Al-Farabi Kazakh National University;

13. Observer from the Agency - Kanapyanov Timur Yerbolatovich, Head of international projects of the Agency (Astana).

Based on the results of the evaluation of the EEC EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - " Plant protection and quarantine ", recommendations were made to improve educational programs:

According to the Standard "Educational program Management"

- expand cooperation with foreign universities implementing similar educational programs;
- increase the group of employers involved in the formation of the EP;
- to work out the mechanism of employers' participation in the development of the EP.

According to the Standard "Specifics of the educational program"

- to develop funds of evaluation tools that allow to give an objective, accurate and thorough assessment of the formation of professional competence of students in accordance with the level of training;

- conduct systematic work on the introduction of innovative teaching methods into the educational process;

- to increase the orientation of bachelor's degree educational programs on the formation of professional competencies of students, taking into account their personal characteristics.

According to the Standard "Teaching staff and teaching efficiency"

- to work on the development of academic mobility of teaching staff;

- to carry out a rating assessment of the activity of teaching staff differentially according to different categories of teaching staff;

- to create an effective system of support and targeted development of young applicants.

According to the "Students" Standard

- to develop additional education programs and create opportunities for professional certification of students in the field of specialization in the learning process.

According to the Standard "Resources available to educational programs"

- to increase the provision of EP literature in the state language;

- increase the number of classrooms for the EP "Protection and quarantine of plants" (at least 3 classrooms for laboratory and practical classes and the 1st lecture hall, equipped with multimedia equipment);

- ensure the representation on the university portal of external publications (links) on the implementation of the EP.

According to the Standard "Standards in the context of specialties"

- to include in the EP special academic disciplines aimed at studying the methods of statistical processing of natural science data.

Recommendations for improving the activities of the university:

1) Develop cooperation with leading foreign universities to develop joint educational programs, conduct joint scientific research, organize scientific internships for students, teachers and university staff; to develop external and internal academic mobility of teaching staff.

2) Improve the mechanism for the participation of different categories of stakeholders in the management of the EP; to ensure the representativeness of the participation of employers in the formation of educational programs.

3) Develop funds for evaluation tools that allow to give an objective, accurate and comprehensive assessment of the formation of the professional competence of students in accordance with the level of education.

4) Improve the mechanism for rating the activities of teaching staff, taking into account the categories of the teaching staff; create an effective system of support and purposeful development of young teachers.

5) Develop additional education programs and create opportunities for professional certification of students in the field of specialization in the learning process.

6) Improve the educational environment: conduct systematic work on the introduction of innovative educational technologies in the EP;

7) Providing the study program with literature in the state language; expansion of the audience fund.

8) Conduct systematic work to collect external publications on the implementation of educational programs and post them on the university portal.

To implement the recommendations at the university, an action plan was developed, approved on February 22, 2016. The results of the implementation of the planned activities are reflected in the Reports of IAAR experts on the assessment of the implementation of the recommendations of the EEC IAAR, formed based on the results of specialized accreditation 6B05201 / 7M05204 / 8D05204 - "Ecology", 6B08104 / 7M08104 / 8D08104 - "Protection and Quarantine of Plants" of the Kazakh National Agrarian University (1st stage (2017), 2nd stage (2020)), in the Report on the implementation of the recommendations of the EEC IAAR of the Kazakh National Agrarian University.

Post-accreditation monitoring of the activities of the Kazakh National Agrarian University was carried out as part of the action plan for the implementation of the recommendations of the EEC and was carried out in accordance with the requirements of the regulation on conducting post-accreditation monitoring dated December 26, 2011.

During the visit, EEC experts analyzed the recommendations implemented by the university. During the reporting period, the following results were achieved:

According to EP 6V05201 / 7M05204 / 8D05204 - "Ecology":

- for the period from 2015 to 2020, cooperation agreements were concluded with universities within the framework of accredited EPs, for which there are results of activities: Angel Kanchev University (Ruse, Bulgaria), Akdeniz University (Antalya, Turkey), Selcuk University (Konya, Turkey), University of Palermo (Palermo, Italy), Banat University of Agricultural Sciences and Veterinary Medicine. King Michael (Timisoara, Romania), All-Russian Research Institute (St. Petersburg, Russia), College of Chemistry and Environmental Management (Kulzha, China), University. Alexander Grigorievich Stoletovs (Russian Federation).

- joint projects are being implemented with foreign partner universities: a joint textbook "Environment and Man" was published with the Agrarian University of Plovdiv, Bulgaria, in 2017, in 2018 a scientific study was conducted in the direction of Ecology "Checking the influence of complexing agents of organic origin on the development of winter rapeseed at different sowing periods" with Angel Kanchev University (Ruse, Bulgaria).

- participation of the teaching staff of the department in foreign seminars, internships, inviting foreign scientists to give lectures.

- the university has a mechanism for attracting stakeholders in the formation and implementation of the EP, where representatives from employers both from private enterprises and organizations of Republican significance, graduates of the department, students and teaching staff take part. The data are reflected in the results of the survey by categories of persons, external and

internal reviews of the EP, feedback from employers based on the results of professional internships, reports of the SAC, SEC, etc.

- innovative teaching methods are applied - the organization of distance technologies on the platforms ZOOM, BBB, Microsoft Teams, laboratory work using real-virtual laboratory complexes in research centers, the use of elements of dual training in production with the participation of employers.

- the focus of educational programs on the formation of professional competencies of students has been increased, taking into account their personal characteristics by designing new trajectories.

- the mechanism for rating the activities of teaching staff has been improved by reworking the normative document of the university "Regulations on the rating system for assessing the activities of teaching staff / departments / faculties of KazNAU". There is a system of support and purposeful development of young teachers.

- the EP includes special academic disciplines aimed at studying the methods of statistical processing of natural scientific data ("Methodology of field research, processing and analysis of experimental data", "Methodology of scientific research").

However, the WEC Commission notes that some of the recommendations of the previous WEC are currently under implementation:

- for the implementation of EP 6B05201 / 7M05204 / 8D05204 - "Ecology" there is no choice of a fund of assessment tools that allow an objective, accurate and comprehensive assessment of the formation of students' professional competence in accordance with the level of education. *The Commission of the EEC notes the lack of choice and alternatives to the oral and written form of the exam in the form of tickets with 4 questions for the reporting 5 years.*

- at the planning stage, the development of joint EPs, double-diploma education for students.
- there is no opportunity for professional certification of students in the field of specialization in the learning process.

- the program of academic mobility of teaching staff implementing accredited EPs is not fully implemented (there are only results on incoming mobility - the invitation of foreign scientists);

- comparison of the availability of teaching materials in the state language for the periods of 2015 and 2020, including the own editions of the teaching staff (table 6) shows that according to EP 6V05201 - "Ecology" the recommendation is to "increase the provision of EPs with literature by state language" - at the implementation stage, according to OP 7M05204 / 8D05204 - "Ecology" the recommendation has been implemented.

Conclusions: According to EP 6B05201/7M05204/8D05204 - "Ecology", not all recommendations have been implemented.

According to EP 6B08104 / 7M08104 / 8D08104 - "Protection and quarantine of plants":

- for the period from 2015 to 2020, cooperation agreements were concluded with universities within the framework of accredited EPs, for which there are results of activities: St. Stephen's University (Hungary), Ohio State (USA), Institute of Systematics and Ecology of Animals (RAS, RF), Plant Protection Institute NRI (Poznan, Poland), Michigan State University (USA), etc.

- joint projects are being implemented with foreign partner universities: As part of a partnership agreement with Ohio State University, with funding from the American Council in the Republic of Kazakhstan (150 thousand US dollars), a project is being implemented in the direction of "Strengthening the research potential of the United States and Kazakhstan through joint institutional agricultural training, research and outreach work with KazNAU", 2019, there is a publication of a scientific article as part of the Bolashak scholarship and the internship of Associate Professor Dutbaev at the University of Michigan (USA) in a highly rated journal, 2020.

- the participation of the teaching staff of the department in foreign seminars, internships, the invitation of foreign scientists to give lectures is observed.

- the university has a mechanism for attracting stakeholders in the formation and implementation of the EP, where representatives from employers both from private enterprises and

organizations of Republican significance, graduates of the department, students and teaching staff take part. The data are reflected in the results of the survey by categories of persons, external and internal reviews of the EP, feedback from employers based on the results of professional internships, reports of the SAC, SEC, etc.

- innovative teaching methods are applied - the organization of distance technologies on the platforms ZOOM, BBB, Microsoft Teams, laboratory work using real-virtual laboratory complexes in research centers, the use of elements of dual training in production with the participation of employers.

- the focus of educational programs on the formation of professional competencies of students has been increased, taking into account their personal characteristics by designing new trajectories.

- the mechanism for rating the activities of teaching staff has been improved by reworking the normative document of the university "Regulations on the rating system for assessing the activities of teaching staff / departments / faculties of KazNAU". There is a system of support and purposeful development of young teachers.

- not quite stable, but the publication of information about the implementation of the EP on the university portal and other media sources is provided.

- the number of classrooms for the EP "Plant Protection and Quarantine" has been increased, there are 3 training laboratories, lecture audiences.

- the EP "Plant Protection and Quarantine" includes special academic disciplines aimed at studying the methods of statistical processing of natural scientific data, starting from classical methods (B.P. Armor (1989) and using various parameters of the Microsoft Excel package and the specialized program Statgrafix.

However, the WEC Commission notes that some of the recommendations of the previous WEC are currently under implementation:

- for the implementation of EP 6B08104 / 7M08104 / 8D08104 - "Plant Protection and Quarantine", there is no choice of a fund of assessment tools that allow an objective, accurate and comprehensive assessment of the formation of professional competence students in accordance with the level of education. The EEC Commission notes the lack of choice and alternatives to the oral and written form of the exam in the form of tickets with 4 questions for the reporting 5 years.

- at the planning stage, the development of joint EPs, double-diploma education for students.

- there is no opportunity for professional certification of students in the field of specialization in the learning process.

- the program of academic mobility of teaching staff implementing accredited EPs is not fully implemented (there are only results on incoming mobility - the invitation of foreign scientists);

- comparison of the availability of teaching materials in the state language for the periods of 2015 and 2020, including the own editions of the teaching staff (table 6) shows that according to 7M08104 / 8D08104 - "Protection and Quarantine of Plants", the recommendation is "to increase the provision of EPs with literature in the state language" - at the implementation stage, according to OP 6B08104 - "Protection and Quarantine of Plants", the recommendation has been implemented.

Conclusions: According to EP 6B08104 / 7M08104 / 8D08104 - "Protection and Quarantine of Plants", not all recommendations have been implemented.

(V) DESCRIPTION OF THE EXTERNAL EXPERT COMMISSION VISIT

The work of the EEC was carried out on the basis of the approved Program of the visit of the expert commission for specialized accreditation of educational programs at the Kazakh National Agrarian Research University in the period from 02 to 04 December 2020.

In order to coordinate the work of the EEC, on December 1, 2020, an introductory meeting was held, during which powers were distributed among the members of the commission, the

schedule of the visit was specified, and agreement was reached on the choice of examination methods.

To obtain objective information about the quality of educational programs and the entire infrastructure of the university, to clarify the content of self-assessment reports, online meetings were held with acting. rector, vice-rectors of the university in areas of activity, heads of structural divisions, deans of faculties, heads of departments, teachers, students, graduates, employers. A total of 79 representatives took part in the meetings (Table 1).

Table 1 - Information about employees and students who took part in meetings with the EEC IAAR:

Participant category	Quantity
Chairman of the Board - Rector	1
Vice-rectors	6
Heads of structural divisions	28
Heads of departments	6
Teachers	10
Students	16
Graduates	10
Employers	2
Total	79

During the online tour, members of the EEC got acquainted with the state of the material and technical base, visited lecture rooms, a computer room, educational laboratories of the departments "Ecology" and "Plant Protection and Quarantine" of the Faculty of Agrobiology.

At the online meeting of the EEC IAAR with the target groups of the Kazakh National Agrarian Research University, the mechanisms for implementing the policy of the university were clarified and certain data presented in the self-assessment report of the university were specified.

For the period of accreditation, it was not possible to attend remote classes, due to the workload of the BigBlueButton platform, which conducts training sessions in a remote format.

- according to OP 7M05204 - "Ecology" - Ecology of agricultural systems (group MEK01-2, teacher Saikenov B.R.), Human and environmental epidemiology (group MEK01-1, teacher Mutasheva G.S.).

- according to EP 8D05204 - Ecology "- Environmental destabilization and sustainability (group DEC-1, teacher Edilbaev B.T.), Green technologies and renewable resources (group DEC-1, teacher Makhamedova B.Ya.)

- according to OP 7M08104 - "Protection and quarantine of plants" - Advanced principles and methods in plant pathology (group ZRK-104, teacher Kaykybaev K.).

- according to OP 8D08104 - "Protection and quarantine of plants" - Ecology of insects and entomogeografia (gr. DZR, teacher Taranov B.T.).

During the work, members of the EEC conducted online visits to the following practice bases: Research Institute "Biology and Biotechnology of Plants", Kazakh Research Institute of Plant Protection and Quarantine named after. Zh. Zhienbaeva.

In accordance with the accreditation procedure, an online survey of 39 teachers, 83 students, including junior and senior students, was conducted.

In order to confirm the information presented in the Self-Assessment Report, the working documentation of the university was requested and analyzed by external experts. Along with this, the experts studied the Internet positioning of the university through the official website of the university <https://www.kaznau.kz>.

As part of the planned program, recommendations for improving the accredited educational programs of the Kazakh National Agrarian Research University, developed by the EEC based on

the results of the examination, were presented at an online meeting with the management on 04.12.2020.

(VI) COMPLIANCE WITH THE STANDARDS OF SPECIALIZED ACCREDITATION

6.1. Standard "Management of Educational Program"

The evidentiary part

The Kazakh National Agrarian Research University has developed, approved and published the "Policy of the "Kazakh National Agrarian University" in the field of quality" (approved by the decision of the Academic Council, 31.08.2019), which reflects the general approaches, key principles and basic mechanisms established in KazNARU to ensure quality and develop a culture of continuous improvement of quality. The policy is publicly available on the university's website https://www.kaznau.kz/page/university/?link=universitetin_saiasaty_693&lang=ru.

KazNARU's quality policy reflects the relationship between scientific research, teaching, and training and takes into account both the national and intra-university context. To implement the Policy, the university management has defined the basic principles that are based on consumer orientation, a process-based and systematic approach to the educational process, staff involvement in all processes, continuous improvement of educational and scientific activities, mutually beneficial relationships with service providers, fact-based decision-making, the role of management in determining the university's strategy. The University has a documented procedure "Development and approval of a Quality Assurance Policy". According to the Procedure, all stakeholders participate in the development of the Policy.

In order to maintain the main processes, the university has a quality management system (QMS), which is regulated by internal regulatory documents, a list of which is presented on the university's website (https://www.kaznau.kz/page/strategiia/?link=smzh_protcedurasy_474&lang=ru) and includes: Quality policy and objectives, documented procedures; process-type provisions, 28 internal regulatory documents (requirements, recommendations, etc.), more than 130 forms of approved documentation, etc.

The quality of educational services provided by the university is systematically confirmed by the results of external quality assessment procedures of the university and EP. In 2019, KazNARU underwent the procedure of institutional accreditation in the OUL of the Kazakhstan Association of Engineering Education KAZSEE (Certificate of Accreditation №. 1920KE0025 (12.06.2019-12.06.2024) and accreditation of specialties in the Independent Agency for Accreditation and Rating (IAAR), the Independent Agency for Quality Assurance in Education (IQAA). The University participates in the AQUIN, ASIIN, IQAA, IAAR, RRA and Atameken rankings.

The quality of accredited programs is confirmed by the following external evaluation results: EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine" were accredited in 2015 in the IAAR for a period of 5 years.

Transparency of the educational program management system is provided by such conditions as:

- availability of information in all areas of activity for interested parties;
- involvement of employers, students and teaching staff in the development and management of educational programs;
- functioning of a multi-channel feedback system;
- implementation of information systems supporting all educational programs;
- functioning of a quality management system that ensures transparency of planning and reporting processes;
- participation of teaching staff and students in collegial bodies of the university.

Monitoring of the implementation of existing plans for the development of educational programs is carried out at the Faculty Council. Educational programs are managed through the work of collegial bodies, the application of a process approach, a planning system and the functioning of an internal quality assurance system.

At the university level, the collegial bodies considering the development of educational programs are the Supervisory Board, the Academic Council of the University, the Employers' Council, the Board of Trustees, the Educational and Methodological Association of the RUMS, the Academic Council of the Faculty. The Supervisory Board includes representatives of the business environment and the educational sphere. The Academic Council consists of the rector, vice-rectors, deans of faculties, heads of structural divisions, representatives from the teaching staff, employers, student and public organizations of the university.

The issues of methodological support and improvement of educational programs are solved within the framework of the Office for Academic Affairs. The issues of scientific support and research work of the teaching staff are within the competence of the Department of Science. Each faculty has a faculty council, which includes the dean, heads of departments and teaching staff, students and employers.

The distribution of staff duties is fixed in the job descriptions of employees.

The university demonstrated innovation management within the framework of the EP by designing the content of academic disciplines and modules based on the results of scientific research of teaching staff of departments. For example, the results of scientific projects "Development of innovative technology for restoring and increasing the fertility of degraded lands to ensure food security in the south and south-east of Kazakhstan", "Resource-saving technology and restoration of natural resources in the agroecosystem", "Rational resource-saving technology of the agroecosystem of rapeseed in the conditions of the foothill zone of the south-east of Kazakhstan" (professors Yelikbayev B.K., Suleimenova N.Sh) are used in conducting disciplines for undergraduates and doctoral students of cluster 3. In addition, the teaching staff of the departments actively apply the acquired competencies when passing foreign internships in the formation of educational and methodological complexes of disciplines.

On the university's website, in the sections of the web pages of the faculty and departments, information is provided about the heads of educational programs (dean, heads of graduate departments) with contact phone numbers and email addresses. The openness and accessibility of the university management and EP for students, teaching staff are confirmed by the results of the survey: the level of accessibility of the dean's office is considered satisfactory - 86.7%, the level of accessibility and responsiveness of the university management for students - 81.9%, the level of accessibility of the leadership for teaching staff - 92.3%.

Analytical part

EP development plans. The strategic development of accredited educational programs is determined by the Development Plans of accredited educational institutions for 2020-2024. (approved at the meeting of the departments and the Council of the Faculty of "Agrobiology": pr. №. 7 of 05.03.2020, pr. №8 of 12.03.2020 for EP 6B05201/7M05204/8D05204 – "Ecology"; pr. №. 8 of 11.03.2020, pr. №. 8 of 12.03.2020 for EP 6B08104/7M08104/8D08104 – "Protection and quarantine of plants"). The structure of the educational program development plans presented to the experts includes sections: passport and analytical justification of development plans, characteristics of the problems addressed by the development plan of the OP, description of the goals and objectives of the development plan of the EP, description of the expected results of the plan, measures to reduce the impact of risks on the EP, the list and mechanism of measures of the implementation plan of the EP, assessment of socio-economic efficiency of the implementation of development plans, graduate model.

There is a functioning mechanism for the formation and revision of the development plans of the EP. Experts have been presented with plans for the development of EP for 2015-2019, 2020-

2024, however, the development plan for EP 6B08104/7M08104/8D08104 "ZiKR" is presented in an unapproved version.

The EEC Commission notes that the content of the submitted development plans does not reflect consistency with national development priorities and the development strategy of the educational organization and faculty, there are no measurable indicative indicators for the planned tasks, there are no responsible persons for the implementation of the tasks, there are no time indicators for the implementation of these tasks, all tasks are generalized regardless of the level of training. As for the specific tasks set in the Development Plans of the EP, many of the items recommended by the Experts of the EEC of the previous accreditation of the EP are planned to be implemented only starting from 2020. Unified development plans for all levels of education do not reflect individuality and uniqueness, and the involvement of interested persons is not reflected in the agreement. The development and approval of Development Plans for all accredited EP is carried out at the level of the department and faculty.

There is an opportunity to access the study of the Development Plans of EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine" for 2020-2024. However, it is not possible to view the content of the Development Plan of EP 6B05201/7M05204/8D05204 - "Ecology" and thereby track the development of accredited EP for the period 2015-2019, published on the page of the Department of Ecology, is not possible (not read). The development plan of EP 6B08104/7M08104/8D08104 - "Plant protection and quarantine" for the period 2015-2019 has not been published.

Risk management. Risk assessment and identification of ways to reduce them are outlined in the University Development Program for 2020-2024, which contains a SWOT analysis of the development of agricultural education, science and production, as well as a block of analytical and predictive justification of the Program. However, the Development Program of the Faculty of Agrobiology does not provide in its content an assessment of risks and ways to prevent them.

Management in education. The management of EP 6B05201/7M05204/8D05204 - "Ecology" has a certificate of completion of the course on "Management in education: trends and quality" in the amount of 72 hours. Completion of the course in this direction by the management of EP 6B08104/7M08104/8D08104 - "Protection and quarantine of plants" at the planning stage.

The progress made since the last external quality assurance procedure is presented in the "Description of the previous accreditation procedure" section of this report. However, the information was compiled on the basis of the submitted reports on the implementation of the recommendations of the EEC post-monitoring. In the initial version of the self-report, the description of the progress made since the last external quality assurance procedure was not taken into account.

Strengths/best practice for

- strengths have not been identified by the members of the EEC.

Recommendations for EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine"

- By the 2021-2022 academic year, the University management should review and approve the structure of the development plans of the University with the inclusion in the plans of measurable target indicators of strategic planning in the context of training levels and time intervals of implementation, indicating the responsible persons.

- The management of EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine" to analyze the compliance of the current Development Plans of EP with the University Development Program for 2020-2024, to predict its demand in the near and long term, using an annual review mechanism, involving stakeholders in the formation and publication of development plans in open access to the public.

- The management of EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine" and the management of the

faculty, in accordance with the University Development Program for 2020-2024, in the Development Plans of accredited EP, as well as in the development plan of the Faculty of Agrobiology, include a section with assessment and management of possible risks in the implementation of accredited EP, indicating possible consequences in case of failure and (or) timely response measures, and also with a description of risk management mechanisms and measures.

- The management of EP 6B05201/7M05204/8D05204 – "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine" in self-assessment documents should reflect a description of the progress made in implementing the recommendations received following the previous accreditation procedure, taking into account the results of interim post-monitoring reports.

Additional recommendation of the EC 6B08104/7M08104/8D08104 – "Protection and quarantine of plants"

- To ensure the completion of advanced training courses for managers of the EP "Plant Protection and quarantine" in the field of education management in the 2020-2021 academic year.

According to the standard "Management of Educational Program" educational programs, 17 criteria have been disclosed, of which 11 satisfactory positions require improvement - 6.

6.2. Standard "Information Management and Reporting"

The evidentiary part

To assess the quality assurance system, the university organizes the collection and analysis of information through the following methods:

1. *Development*, implementation and use of information systems:

Official website of the University www.kaznu.kz .

AIS "Platonus".

Electronic Library of the University.

Information systems and resources of the library complex.

Automated accounting information system «1C Accounting».

2. *Determining stakeholder requirements.*

The needs and expectations of key stakeholders are determined by analyzing external regulatory documentation in the field of education, feedback from joint events (practices, seminars, meetings, joint projects, etc.), survey results.

3. Analysis of the external and internal environment of the university.

4. Internal process audits.

5. Conducting an assessment of the satisfaction of stakeholders with the educational services of the university.

- annual survey of graduates on the quality of educational services;

- surveying employers about the quality of graduate training (every two years);

- annual questioning of students about the quality of teaching disciplines;

- annual survey of teaching staff on the organization of the educational process;

- questioning students in additional areas (for example, on issues of student self-government, adaptation to study at a university, etc.).

The results of sociological research are considered at meetings of departments, faculty councils, where decisions are made on corrective measures. During interviews with target groups, confirmation was received that, based on the results of the survey, the teaching staff's proposals on stimulating publication activity in rating journals were considered and accepted.

The system for monitoring the implementation of plans for the development of the EP includes the following mechanisms:

- annual reports of the teaching staff on the implementation of the individual work plan;
- annual reports of graduating departments and faculties;
- analysis of the implementation of plans for the development of educational programs at the faculty council;
- internal audits;
- consideration of issues of development of different areas of training of specialists at collegiate bodies;

One of the effective mechanisms for monitoring the main results of scientific research is the regular reporting of departments on the results achieved in the framework of the implementation of decisions taken by collegial bodies.

As part of the internal audit of the QMS, an assessment of the implementation of plans is also carried out. Based on the results of the audit, corrective actions are developed to prevent the possibility of the occurrence of identified nonconformities in the future.

In order to assess the effectiveness and efficiency of the activities of departments at the university, a survey of department heads, teachers and employees is conducted to assess the university management system, during which the activities of various departments of the university, the personal qualities of work colleagues, and satisfaction with working conditions are assessed.

To assess the effectiveness and efficiency of the departments in the university there is a KPI system. The “Regulations for the rating system for evaluating the activities of teaching staff / departments / faculties of KazNARU” have been introduced.

The frequency, forms and methods for assessing the management of the educational program and structural units are defined in the following documents:

- Policy and standards in the field of quality assurance.
- Regulations on the organization and conduct of the final state (complex) exam;
- Academic policy;
- Change and addition in academic policy;
- Regulations on the magistracy;
- Regulations on doctoral studies;
- ND «Educational and methodical work»;
- ND «Planning the educational process»;
- ND «Quality control of the educational process», etc.

The safety of information is ensured by an unambiguous distribution of roles and functions in the information systems used, the presence of anti-virus programs, system administration of servers, a backup system on servers, restricting access of individuals to the room with servers, technical equipment of rooms with servers to ensure the safety of work.

Both students and teaching staff and employees of the university are involved in the processes of collecting and analyzing information. The teaching staff provide information about their achievements by posting scientific articles on the university website in a separate repository, participating in the teaching staff rating. Information from students is collected through the rating of students, the rating of study groups and faculties.

KazNARU has a multi-channel feedback system focused on students, employees and stakeholders. In the university, the following communication mechanisms can be distinguished: reception hours of the Chairman of the Board – Rector for students and teachers; Rector's direct mail, Rector's blog, mechanism for responding to complaints and suggestions; holding meetings, round tables with interested parties; social networks V kontakte, Facebook, Instagram, WhatsApp. The presence of a mechanism for communication with students, employees and other stakeholders is demonstrated through communication within Internet sites with the presence of e-mail, WhatsApp groups, Instagram, VK, etc.

The mechanism for managing conflicts in relations at the university includes the work of a conciliation commission and a 3-day procedure for considering a documented application. The procedure for considering students' complaints is implemented according to the scheme: curators/advisers – department – dean's office – vice-rector for educational and social work (VSR) – rector. In most cases, all conflicts are resolved at the level of the head of the department or the dean of the faculty. In addition, a student can write a written application, which is registered with the Department for Educational Work and considered at the level of Vice-Rector for Educational and Social Work. A student complaint can be filed through the «trust box», the rector's blog, the office, or directly at the reception for personal issues. A number of complaints, such as appeals for interim control and appeals for current (rating) control, are regulated by PRO KazNARU Knowledge Assessment. A student complaint to the university management can also be filed through the chairman of the student self-government council, the student dean or the student trade union committee.

The university provides measurement of the degree of satisfaction with the needs of teaching staff, staff and students within the framework of the EP through a questionnaire. Evidence of the elimination of the identified deficiencies was demonstrated through interviews with teaching staff, students, and employers.

Evaluation of the effectiveness and efficiency of educational programs is carried out within the framework of the following procedures:

- self-assessment in the course of preparation for institutional accreditation;
- self-assessment in the course of preparation for program accreditation;
- self-assessment of the EP for compliance with the criteria of rating agencies;
- creation of intra-university commissions and consideration of issues at collegiate bodies of the university;
- consideration of issues at the faculty council;

The information collected and analyzed by the university within the framework of the EP takes into account:

- Analysis of the key indicators of the EP – is carried out when monitoring the implementation of the EP Development Plans, the Faculty Development Plan, the University Development Plan.
- The dynamics of the contingent of students of EP 3 of the cluster is presented in table 2.

Table 2 – Dynamics of the reduced contingent of students in the 3rd cluster

EP	2016-2017		2017-2018		2018-2019		2019-2020		2020-2021	
	daytime	corresp/re mote	aytime	corresp/re mote	aytime	corresp/re mote	aytime	corresp/re mote	aytime	corresp/re mote
6B05201- «Ecology»	38	2	55	3	80	7	95	9	112	13
7M05204-«Ecology»	26	-	12	-	4	-	12	-	12	-
8D05204-«Ecology»	10	-	15	-	12	-	7	-	4	-
6B08104-«PPQ»	465	4	453	1	388	6	327	7	242	11
7M08104- «PPQ»	11	-	8	-	15	-	18	-	24	-
8D08104- «PPQ»	16	-	8	-	20	-	19	-	25	-

Analysis of the dynamics of the contingent of accredited EPs of the 3rd cluster shows stable indicators of maintaining the contingent for all accredited EPs.

- The satisfaction of students with the implementation of the EP and the quality of education at the university, as well as the availability of educational resources and support systems for students, is determined using a survey of students. Questionnaires are coordinated by the Department of Strategic Development. Information about the results of the survey is stored in the

Information and Analytical Center, sent to the departments. Analysis and decisions based on the results of the survey are recorded in the minutes of the collegiate bodies.

- Analysis and monitoring of the employment process is carried out by the Practice and Employment Sector of the Training Department. The formation of a database on employment and career growth of graduates is carried out by the department.

Information on the employment of graduates of the EP 3 cluster in the context of 5 years is presented in Table 3.

Table 3 – Information on the employment of graduates of accredited EPs.

EP	Graduation year									
	2016		2017		2018		2019		2020	
	Total graduates, people.	Diplomas with honors, %	Total graduates, people.	Diplomas with honors, %	Total graduates, people.	Diplomas with honors, %	Total graduates, people.	Diplomas with honors, %	Total graduates, people.	Diplomas with honors, %
6B05201- «Ecology»	6	83	5	80	6	83	19	68	15	53
7M05204- «Ecology»	10	100	14	86	11	64	1	100	3	67
8D05204- «Ecology»	3	100	15	100	3	100	5	100	7	100
6B08104- «PPQ»	66	83	92	88	115	92	125	95	98	90
7M08104- «PPQ»	17	77	8	75	2	100	6	100	9	89
8D08104- «PPQ»	7	100	11	100	3	100	2	100	2	100

The Commission of the EEC notes a decline in the percentage of employment of bachelors in 2020, as well as unstable indicators for the employment of undergraduates of the EP «Ecology». The leadership of the EP explains the decline in the situation in the world and the Republic of Kazakhstan associated with the pandemic.

To support the process of employment of graduates, the university organizes an annual Job Fair with the participation of employers. The distribution of graduates is carried out by the commission for the distribution of young specialists. The graduating departments and dean's offices on a permanent basis provide communication with graduates.

Data on the achievements of graduates of accredited EPs are given in Table 4:

Table 4 – Data on the achievements of graduates of accredited EPs

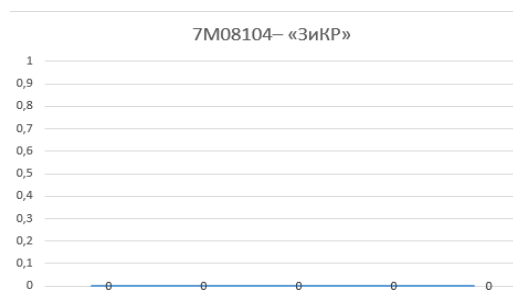
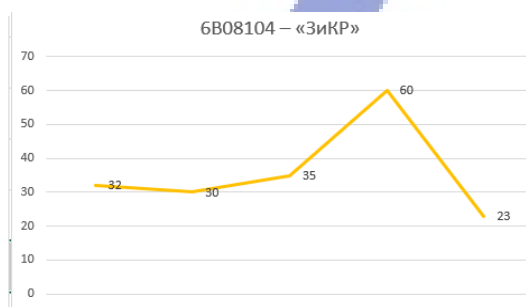
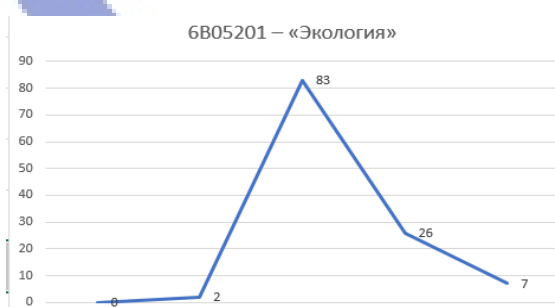
EP	Graduation year				
	2016	2017	2018	2019	2020

	Total graduates, people.	Diplomas with honors, %	Total graduates, people.	Diplomas with honors, %	Total graduates, people.	Diplomas with honors, %	Total graduates, people.	Diplomas with honors, %	Total graduates, people.	Diplomas with honors, %
6B05201- «Ecology»	36	0	55	2	6	83	19	26	15	7
7M05204- «Ecology»	10	0	15	0	3	0	1	100	3	0
8D05204- «Ecology»	5	0	5	0	5	0	-	-	-	-
6B08104- «PPQ»	66	32	92	30	115	35	125	60	98	23
7M08104- «PPQ»	17	0	8	0	2	0	6	0	9	0
8D08104- «PPQ»	7	0	11	0	3	0	2	0	2	0

Employees and teaching staff document their consent to the processing of personal data when drawing up an employment contract. Students document their consent to the processing of personal data when filling out an applicant's application for enrollment in the first year.

Access of students to information in the relevant fields of science is provided through the website of the Scientific Library of KazNARU. Access to the resources of the Kazakhstan National Electronic Library (KNEB), the Republican Interuniversity Electronic Library (RIEL), electronic information resources of SpringerLink, Scopus, eLIBRARY, Clarivate, the Lan electronic library system, Elsevier Electronic Information Resource, ScienceDirect, etc.

According to the results of the survey, 51.3% answered the question about assessing the involvement of teaching staff in the process of making managerial and strategic decisions “very good”, 43.6% “good”, and 5.1% “unsatisfactory answers”.



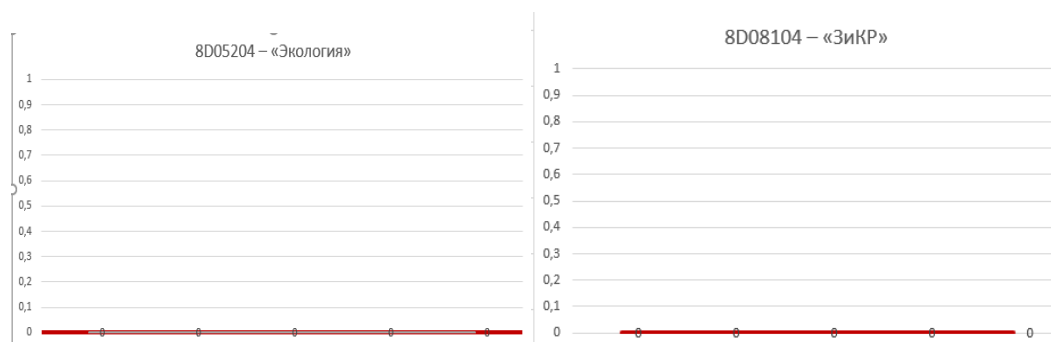


Figure 1 – Dynamics of qualitative indicators of students in the 3rd cluster

Employees and teaching staff document their consent to the processing of personal data when signing an employment contract. Students document their consent to the processing of personal data when making an applicant's application for admission to the first year.

Students' access to information in the relevant fields of sciences is provided through the website of the KazNARU Scientific Library. Access to the resources of the Kazakhstan National Electronic Library (KNEL), the Republican Interuniversity Electronic Library (RIEL), electronic information resources SpringerLink, Scopus, eLibrary, Clarivate, the electronic library system "Lan", the Electronic information resource Elsevier, ScienceDirect, etc.

According to the results of the survey, 51.3% answered "very well", "good" - 43.6%, "unsatisfactory answers" - 5.1% to the question about the assessment of the involvement of teaching staff in the process of making managerial and strategic decisions.

Analytical part

Grade level analysis, student achievement, and withdrawal are conducted through the Student Services and Registration Center functions. For all EPs (Educational program) of the accredited cluster in 2020, there are unstable quantitative indicators or no indicators at all of the graduates for the last 5 years (Table 4) who graduated with honors (Fig. 1).

On the educational programs of Master's and doctoral studies, there is a lack of graduates who graduated with excellent marks. Based on the annual absence of "excellent" graduates of master's and doctoral programs (except for EP 7M05204 "Ecology" 2019 graduation year - 1 person (100%) during 5 reporting years, we can conclude that the information about the level of graduates' performance is collected, but not analyzed.

No action has been taken to increase requirements for students to increase the level of knowledge, preparation for the final attestations.

Strengths /Best practices in accredited EPs

- strengths have not been identified by the members of the EEC.

Recommendations for EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine"

1. EP Management 6B05201/7M05204/8D05204 – «Ecology», 6B08104/7M08104/8D08104 – «Plant Protection and Quarantine» Each year to analyze the progress of students, identifying and discussing the causes of the weak performance of students, with the development of specific actions to strengthen the requirements to improve the quality of training of students, reflecting all the actions taken in the minutes of the meeting of the departments.

According to the standard "Information Management and Reporting" disclosed 17 criteria, of which satisfactory items - 16, require improvement of 1 position.

6.3. Standard "Development and approval of the Educational Programme"

The evidentiary part

The university provides the development of educational programs based on the requirements of the state compulsory standards of education of RK, professional standards, the development program of the university, and examples of best practices. In the development of programs, the university ensures that the objectives of the EP of the university development strategy, the availability of expected learning outcomes, participation of students and other stakeholders in the development of EP, external expertise and availability of reference and information resources, continuous unimpeded progression of students in the process of learning the program, determining the expected load of students, providing opportunities for internships and traineeships, the process of official approval of the program.

At KazNARU, the graduate model is represented by four types of competencies - possession of knowledge in the area of specialization, acquired skills throughout study, acquired skills, possession of professional competence.

Educational programs are developed by a working group formed from the number of leading scientists, practitioners in the areas of training, students, and employers, under the P KazNAU EP Catalogue Electric disciplines (CED) and Working Curriculum (WC) (33 "Rules of formation of the EP, CED and WC" (approved in 2020). Accredited EPs are focused on learning outcomes, expressed in the form of competencies, and are formed according to a modular principle. Learning outcomes are formulated for the program as a whole, for each module and individual discipline.

Goals of accredited EPs:

- EP 6B08104 «Plant Protection and Quarantine» - implementation of education based on the use of innovative learning technologies aimed at training personnel in the field of plant protection and quarantine.

- EP 7M08104 «Plant Protection and Quarantine» - training of plant protection and quarantine specialists competitive on the labor market for state, local, regional, foreign institutions, various economic entities, as well as training of scientific and pedagogical staff for higher educational institutions and colleges.

- EP 8D08104 «Plant Protection and Quarantine» - training of highly qualified specialists in the field of plant protection and quarantine, having methodological knowledge and skills of generating ideas, forecasting the results of innovative activities, capable of leadership, autonomy, analysis, and implementation of complex innovative ideas in the field of innovation and professional activity, with a high level of general and professional culture, capable of self-development,

- EP 6B05201 «Ecology» - Creating conditions for high-quality training of specialists in the field of general and applied ecology, nature conservation, and environmental management to ensure the environmental safety of the Republic of Kazakhstan.

- EP 7M05204 «Ecology» - training of competitive environmental specialists in the labor market for state, local, regional, foreign institutions, as well as training of scientific and pedagogical staff for higher education institutions and colleges. Preparation of a specialist of a new formation, having wide fundamental knowledge, proactive, adaptive to the changing requirements of the labor market and technology, able to work in a team, having the necessary knowledge in the field of ecology.

- EP 8D05204 «Ecology» - training highly qualified, competitive specialists in the international labor market, capable of formulating and solving modern problems in the field of environmental protection and successfully carrying out research work.

EP management ensures the availability of developed models of graduates of accredited EPs, describing the learning outcomes and personal qualities. Faculty members of the departments, graduates, and employers participated in the development of the graduate models:

- EP 6B05201 – «Ecology» - NJSC «National Agrarian Scientific and Educational Center, director of LPP «Kaskelen experimental farm» MA of the RK, Committee of the Management of Production Enterprise in the specialty, 3rd-year students, the graduate of 2017.

- EP 7M05204 – «Ecology» - NJSC «National Agrarian Scientific and Educational Center, director of LPP «Kaskelen experimental farm» MA of the RK, Committee of the Management of Production Enterprise in the specialty, master student A. Amankul, graduate A.Kosherbay.

- EP 6B08104 – «Plant Protection and Quarantine» - JSC «National Agrarian Scientific and Educational Center, director of LPP «Agropark Ontustik» MA of the RK, Committee of the Management of Production Enterprise in the specialty, student of 2nd course, the graduate of 1994.

- EP 7M08104 – «Plant Protection and Quarantine» - NJSC «National Agrarian Scientific and Educational Center, director of LPP «Agropark Ontustik» MA of the RK, Committee of the Management of Production Enterprise in the specialty, master student K. Tokkozha, the graduate D. Kylibayev.

- EP 8D08104 – «Plant Protection and Quarantine» - General Director of LLP "Kazakh Research Institute of Plant Protection and Quarantine named after. Zh. Zhienbaeva» MA of the RK, Committee of the MPE in the specialty, Ph.D. student of 3rd course, graduated in 1994.

KazNARU has the practice of conducting an external examination of educational programs developed by the Working Group on specialties. The expert opinion is attached to the program. The expertise of EP is carried out by leading employees or heads of organizations, enterprises, corresponding to the profile of training specialists.

The developed educational programs, corresponding to a certain level of NQS, clearly define the qualification obtained upon completion of this EP, describe the types, fields, and objects of professional activity, provide a list of possible positions.

Experts, employers, and students are involved in ensuring the quality of KazNARU educational programs.

Assessment of compliance of the educational program with the requirements of employers is carried out by collecting and processing suggestions, comments, and recommendations of the chairmen of state certification commissions, reviewers of diploma works, studying employers' feedback on graduates and trainees. Employers evaluate the EP through questionnaires, examination of educational programs, recommendations on the results of professional practices, reports on the final certification, feedback on students sent to the university. Accordingly, employers are actively involved in the monitoring and evaluation of educational programs both at the stage of examination, before the approval of educational programs, and in the period of its implementation and evaluation of graduates.

The accredited EP displays the logical sequence of mastering cycles, disciplines, practices, final certification, defense of the thesis, ensuring the formation of general and special competencies. The complexity of the disciplines of the cycles in ECTS credits, as well as in hours with the allocation of lectures, laboratory, practical (seminar) classes, independent work of students under the guidance of a teacher, and independent work of a student, all types of professional practice, intermediate certification are indicated.

For each accredited EP, a modular educational program has been developed that contains a graduate model, which is aimed at the formation of relevant competencies that allow achieving results in the professional field of activity of the appropriate level of education (bachelor's, master's, doctoral studies). The undergraduate Modular Educational Programs (MEP) provide for the study of disciplines that form general and basic knowledge, skills, and abilities of future professional activity.

Analytical part

EPs Management 6B05201/7M05204/8D05204 – «Ecology», EP 6B08104/7M08104/8D08104 – «Plant Protection and Quarantine» in general, it determines the influence of disciplines and professional practices on the formation of learning outcomes. The MEP outlines the field of professional activity of graduates of the accredited EPs. The EEC experts studied the internal content of the programs and concluded that EP 6B05201/7M05204/8D05204 – «Ecology», EP 6B08104/7M08104/8D08104 – «Plant Protection and Quarantine» corresponds to the learning outcomes and graduates will be competent in the declared areas of activity. However, having studied the CED and the internal content of the major disciplines 6B05201 – «Ecology» "Ecological Tourism" trajectory, the EEC experts concluded that the content of the CED does not fully reflect the specifics of the trajectory. Of all the CED disciplines (Technogenic Ecology, Ecology of Microorganisms, Biology of Soil Ecosystems, Geography of Kazakhstan Tourism, Environmental Impact Assessment, Geobotany, Sustainable Agriculture and Food Systems, Environmental Pollution and Restoration Technology), only one discipline is suitable in content to the specifics of the trajectory - "Geography of Kazakhstan tourism", but it is also duplicated in content with the discipline of CED "Ecological tourism" of the trajectory EP 6V05201 - "Ecology" - "Ecology and nature management".

Professional certification of students. The EP guidelines do not provide an opportunity to prepare students for professional certification (we are not talking about the training itself within the university, but about organizing the receipt of this training).

This recommendation was included in the report of the EEC of the previous accreditation commission, as well as in the interim post-monitoring reports. Moreover, the EEC expert on post-monitoring specifically explained «...Professional certification of students can also be carried out outside the university when concluding agreements with third-party organizations in the region...». However, the person responsible for the implementation of this recommendation, referring to the Decree of the Government of the Republic of Kazakhstan dated December 28, 2015. No. 1095 “On approval of the list of activities carried out by legal entities, more than fifty percent of the shares (stakes in the authorized capital) of which are owned by the state, and affiliated persons with them”, not fully understanding the meaning of the recommendation developed by the EEC experts, excludes the possibility of its implementation. EEC experts once again explain: according to the recommendation of the EEC commission in 2015, the university management has the right to agree with external service providers for the right to teach students additional skills, with a document on the assigned additional competencies of students. For a more complete understanding of the available opportunities, let's give an example: students of any level of the EP "Ecology", as part of their future professional activities, can provide services that are relevant today to enterprises in the region for calculating pollution of the atmosphere, water, soil, waste, etc., having received for this certificate or certificate for studying the full course of performing calculations in the “Era” software package on contractual or mutually beneficial terms with an organization competent in this field. In addition, these competencies can be included in the study of this program within the framework of the EP, if the university purchases this software and the EP management plans to study the module in the undergraduate MEP in this area, as well as with the mandatory training of teaching staff to work with the “Era” PC. According to the described example, within 5 reporting years, it was possible to work out this recommendation for all EP 3 of the clusters.

The presence of joint EPs with foreign educational organizations. KazNARU maintains close ties with many leading universities and research centers of the CIS and far abroad in the field of education, which helps to provide all conditions for creating joint EPs with them. However, at the time of the accreditation procedure, the implementation of the Standard Operating Procedures (SOPs) is not observed. Development and approval of SOPs at the planning stage.

Strengths / best practices for accredited EPs

- strengths have not been identified by the members of the EEC.

Recommendations for EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine"

In 2021-22 academic year management EP 6B05201/7M05204/8D05204 – «Ecology», 6B08104/7M08104/8D08104 – «Plant Protection and Quarantine» to introduce modules into educational programs that allow students to prepare for professional certification, to carry out purposeful work to organize the preparation of students for professional certification at enterprises in the region and/or in international organizations and begin its implementation by 2022. EP management 6B05201/7M05204/8D05204 – «Ecology», 6B08104/7M08104/8D08104 – «Plant Protection and Quarantine» include an item in the development plans of the EP aimed at developing professional cooperation with Kazakhstani and foreign educational organizations for accredited EPs to harmonize modules and develop joint EPs, develop and start implementing joint educational programs by the 2023-2024 academic year.

Additional recommendation EEC for EP 6B05201 – «Ecology»:

To the EP Management 6B05201 «Ecology» with the training trajectory "Eco-tourism", in the MEP for students of 2021 of admission - to specify the learning outcomes in accord by if ics of the trajectory and update the CED, in the MEP for students of 2020 of admission - to adjust the internal content of profile disciplines according to the trajectory before the start of the 2nd semester 2020-2021 academic year, reflecting the changes made in the protocol of the department.

According to the standard " Development and approval of the Educational Programme", 12 criteria are disclosed, of which 10 positions are satisfactory, 2 positions require improvement.

6.4. Standard "On-Goig Monitoring and Periodic Review of Educational Programme"

The evidentiary part

The University defines and consistently applies procedures for monitoring, periodically evaluating and reviewing educational programs in order to ensure that they achieve their goal and meet the needs of students and society. The University ensures the participation of students, employers, and other stakeholders in the evaluation and revision of programs (see the Standard "Development and approval of an educational program"). The basis for these procedures are:

- approval of new standard curricula for specialties;
- introduction of new professional standards;
- employers' proposals formed based on the results of a survey or joint events with graduating departments;
- recommendations of the chairmen of the SAC;
- the results of research activities of the teaching staff of the university in the field of special sciences and modern pedagogical research;
- changes in regulatory requirements for the development of EP.

Improvement of educational programs includes the following procedures:

Annual examination of methodological support at the level of the meeting of the departments, the EMC of the faculty, the faculty council, the Office of Academic Activities, the EMC of the university,

Academic Council of the University.

Annual analysis and expansion of CED with the involvement of employers.

Maintaining feedback with stakeholders aimed at improving the EP (round tables, final conferences on industrial practices, joint scientific and methodological seminars).

Monitoring the implementation of the EP at the level of the Office of Academic Affairs.

Evaluation of the quality of the EP by the main stakeholders: questionnaires, reviews.

Annual internal audits to determine the compliance of the processes of planning, organizing, monitoring and developing the quality of the EP with the established requirements.

Analysis of the results of external quality assurance procedures.

Consideration of the overall results of monitoring and evaluation of the EP, development of measures for improvement by the educational department under the Office of Academic Affairs.

The process of monitoring, evaluating and improving the EP is the responsibility of the dean of the faculty and is controlled by the Office of Academic Affairs. Documentary evidence of changes in educational programs are:

- decisions of collegiate bodies;
- action plans to improve the EP;
- updated methodological support based on the decisions of collegial bodies;
- event protocols.

The catalog of elective disciplines for accredited EPs is annually analyzed and expanded. So, in the 2018-2019 academic year, there was a change in the catalog of elective disciplines for all accredited EP programs due to the inclusion of new educational trajectories. In addition, periodic updating of elective disciplines is provided (Table 5).

Table 5 - New elective courses developed for accredited EPs for 2017-2020

№	Recommendations at	Discipline in MOS		
		6B05201-Ecology	7M05204-Ecology	8D05204-Ecology
2017-2018				
1.	<ul style="list-style-type: none"> - NJSC "National Agrarian Scientific and Educational Center"; - LLP "Kaskelen experimental farm" 	<ul style="list-style-type: none"> - Ecology of agricultural landscapes"; - Restoration of disturbed ecosystems; - Industrial ecology 		
2018-2019				
2.	<ul style="list-style-type: none"> - NJSC "National Agrarian Scientific and Educational Center"; - LLP "Kaskelen experimental farm" 	<ul style="list-style-type: none"> - Экология и природопользование - Экологический туризм 	<ul style="list-style-type: none"> - Soil environment - Assessment of the impact of agricultural facilities on the environment" 	
2019-2020				
3.	<ul style="list-style-type: none"> - NJSC "National Agrarian Scientific and Educational Center"; - LLP "Kaskelen experimental farm" 	<ul style="list-style-type: none"> - Ecology of the agricultural landscape - Ecological bases of chemicalization of agriculture - Industrial ecology - Restoration of disturbed ecosystems 	<ul style="list-style-type: none"> - Agroecology - Environmental protection 	<ul style="list-style-type: none"> - Methods for assessing the ecological state of the environment - Basic principles of nature management and patterns of circulation of the biosphere - Ecological assessment and innovative solutions for nature management - Technology of conservation and restoration of natural resources in agro-ecosystems

The organization of open classes and interactions with teaching staff also allows you to evaluate the quality of EP. The departments have a developed form of graphic interaction of classes of professors and teachers, which are formed each semester of the academic year. According to the results of the visit, the list of quality assessments (when visiting the junior position) or analysis of the visit of the corresponding type of activity is filled. In the case of the visit of the junior-senior on the position of the evaluation, a table is not filled. At the end of each semester, an analysis of interactions is conducted. The number of interactions is determined by the contingent of teaching staff departments. During each visit, positive moments of the lesson are noted and recommendations are given.

Systematic monitoring of the success of students in the form of discussions of the results of boundary controls 1 and 2, examination sessions in educational groups. As a result, corrective actions and decisions are taken. The process of monitoring, evaluation and improvement is reflected in the decisions of collegial bodies.

There is an annual assessment of the quality of educational programs based on stakeholders. And it is:

Annual survey of alumni about educational programs, training environments and support services.

conducts an annual meeting and analysis of the results of the work of EP graduates.

organization of open classes and interactions of PPS, in which young teachers have the opportunity to acquire experience in the teaching discipline.

- Evaluation of academic results of students studying in EP, reviewed at meetings of the department and the Faculty Council.

- The interaction of the departments "Ecology" and "Plant Protection and Quarantine" with employers is carried out incl. and through the joint formation of a catalog of elective disciplines.

The management of accredited EPs conducts coordinated work with stakeholders, interaction is carried out through the joint coordination of educational and industrial practice programs, participation in conducting training sessions, performing research work, participating in seminars, organizing advanced training courses, discussing topics of masters and doctoral dissertations.

The method of evaluating educational programs is also an expert method. The forms of evaluation of educational programs are external and internal evaluation. External evaluation of educational programs is carried out by an expert group, which includes representatives of employers, faculty, students, and graduates.

Internal evaluation of educational programs is carried out by an expert group, based on the results of which a conclusion is formed. Based on the conclusion of the expert group, the educational program is considered and recommended for approval at a meeting of departments, the Academic Council of the Faculty of Agrobiography, and approved by the Academic Council of the university. After passing through all the stages of coordination and approval, the educational program is introduced into the educational process.

Monitoring and assessment of knowledge of students at the beginning of training in the course of the educational trajectory is tracked through the modules of the IACUE "Electronic Rector's Office". All measures to control the quality of the educational process, carried out at different levels, are recorded in the form of records, acts, certificates, reports, etc., and are discussed at meetings of the departments, the Academic Council of the Faculty and the Academic Council of the University. Based on the analysis and evaluation of control indicators, measures are developed to improve the quality of the implementation of educational programs.

The workload, academic performance and graduation of students comply with the regulatory requirements and the state compulsory standards of education. Based on the data of constant monitoring, a report is analyzed and generated on the results of sessions, state exams and the quality of final works. This issue is periodically considered at meetings of the department, Faculty

Council, Academic Council of the University to take the necessary measures to improve academic performance and achieve the desired results.

Every year, a survey of students is conducted to assess the pedagogical activities of the teaching staff, the analysis of the survey is carried out at meetings of the departments. Based on the results of the discussion, the management of the educational program makes decisions on the introduction of new disciplines, educational trajectories.

The educational environment and support services correspond to the goals of the EP, so the educational process for accredited programs is implemented in specialized classrooms and educational laboratories equipped with the necessary laboratory equipment and devices (see the standard "Educational Resources and Student Support Systems").

Analytical part

A student who does not agree with the results of the examination assessment has the right to appeal. In some cases (due to illness, family circumstances, other objective reasons), the dean of the faculty, on the basis of the written permission of the vice-rector for academic and educational work, may allow the student to pass the examination session individually (early delivery or extension of the session). However, the EEC, when visiting the university online, faced the following situation: the EP management was given a list of classes for which it was necessary to make video recordings to study the methods and quality of teaching of the teaching staff. Video recordings of classes on the day of the event were not available to the experts, just like the next day. In fact, the records were received after 2 days. The person responsible for organizing this event explained that in the new, developed platform of the university "BigBlueButton", on which the distance educational process is carried out, it allows you to receive video recordings of classes and other events not earlier than in 2 days. Accordingly, questions arise about the appeal procedure in the working conditions of this platform: in what time frame will the management of the EP conduct an appeal when recording the final attestation on this platform? In what documents is this process reflected, and how is it communicated to students?

Informing about changes in the EP is carried out at meetings of the department, the Academic Council of the Faculty, the Academic Council of the University. Also, according to the self-report, interested parties are informed about upcoming meetings on the consideration of educational programs by means of communication (mobile communications/e-mail/social networks/messengers). So, the departments have accounts in social networks (WhatsApp, VKontakte (VK), Instagram, Facebook, ZOOM) through which they inform all interested parties about any changes in the EP. However, the EEC commission notes the absence of a mechanism for informing all interested parties about any planned or taken actions regarding the EP on the university website, the university does not publish information about the changes made to the EP.

Strengths / Best practice for accredited EPs

- strengths have not been identified by the members of the EEC.

Recommendations for EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine"

1. The management of the university in the 2020-2021 academic year needs to work out a mechanism for conducting an appeal in the remote format of conducting intermediate and final attestations, explaining all procedures, deadlines in the regulatory document and bringing information to all students of the university through publication on the university website.

2. Management of accredited EPs 6B05201/7M05204/8D05204 - «Ecology», 6B08104/7M08104/8D08104 - «Plant Protection and Quarantine» ensure publication on the university website of all changes and actions taken in relation to the EP.

According to the standard "On-Going Monitoring and Periodic Review of Educational Programme", 10 criteria are disclosed, of which 9 - have a satisfactory position, 1 - suggests improvement.

6.5. Standard "Student-Centered Learning, Teaching and Performance Evaluation"

The evidentiary part

In KazNARU, student-centered learning is implemented by fulfilling the following provisions:

1) The student, with the help of an advisor, forms his individual curriculum for each academic period, using a standard curriculum and CED. The choice of an individual educational trajectory is carried out on the basis of the MEP, in which, in addition to general educational, basic disciplines of the compulsory component, elective courses and practices are included, which are aimed at ensuring professional competencies.

2) The student has the right to study on academic mobility in other universities both in the Republic of Kazakhstan and abroad, with subsequent re-crediting of the disciplines studied at the university and including them in the transcript.

3) The student can participate in double-degree education programs with other universities with the possibility of including disciplines studied at another university in the transcript.

4) To meet the need for additional or repeated study of disciplines, the university annually holds a summer semester.

During the academic year, the student's hours are fixed in the schedule under the guidance of a teacher, the departments have schedules for teaching staff consultations, additional information is provided in syllabuses by discipline, the student can also contact the teacher by e-mail.

Distance learning is combined with work practice, branches of departments in production are used to conduct classes (see the standard "Educational Resources").

To strengthen the practical orientation of the educational process, specialists - production workers were invited to conduct classes (see the standard "Standards in the context of specialties").

Ensuring equal opportunities for students is achieved by the development of educational, methodological, organizational, methodological and information support for the educational process in two languages of instruction: Kazakh and Russian. Information material for students on the website of the university is presented in three languages.

An external expert commission at the previous accreditation procedure made a recommendation to "increase the provision of EPs with literature in the state language". The implementation of this recommendation is reflected in Table 6, which reflects a comparison of the availability of educational and methodological documentation in the state language.

Table 6 - Comparison of the availability of teaching materials in the state language for the periods of 2015 and 2020, including the teaching staff's own editions

EP	Number of students on September 1		Book fund		Availability of books on 1 student.	
			Total, including own editions			
	2015	2020	2015	2020	2015	2020
6B05201 – Ecology	34	112	15895	18564	467	165
7M05204 – Ecology	24	12	6947	7698	289	641
8D05204 – Ecology	8	4	5261	6316	657	1579
6B08104 – «PPQ»	465	242	65639	66471	144	262
7M08104 – «PPQ»	11	24	8225	9057	747	377
8D08104 – «PPQ»	19	25	8605	9437	537	377

According to the data on the provision of UML students in the Kazakh language in 2020, presented by the management of the EP, in comparison with 2015, we can conclude:

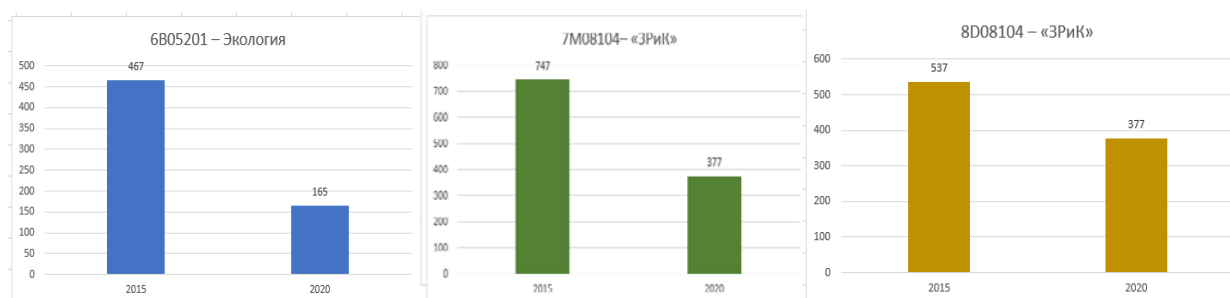


Figure 2 – Comparison of the availability of UML in the Kazakh language 2015-2020.

According to EP 6B05201 - "Ecology" and 7M08104/8D08104 - "Plant Protection and Quarantine", the recommendation "to increase the provision of EP with literature in the state language" is at the implementation stage (Figure 2).

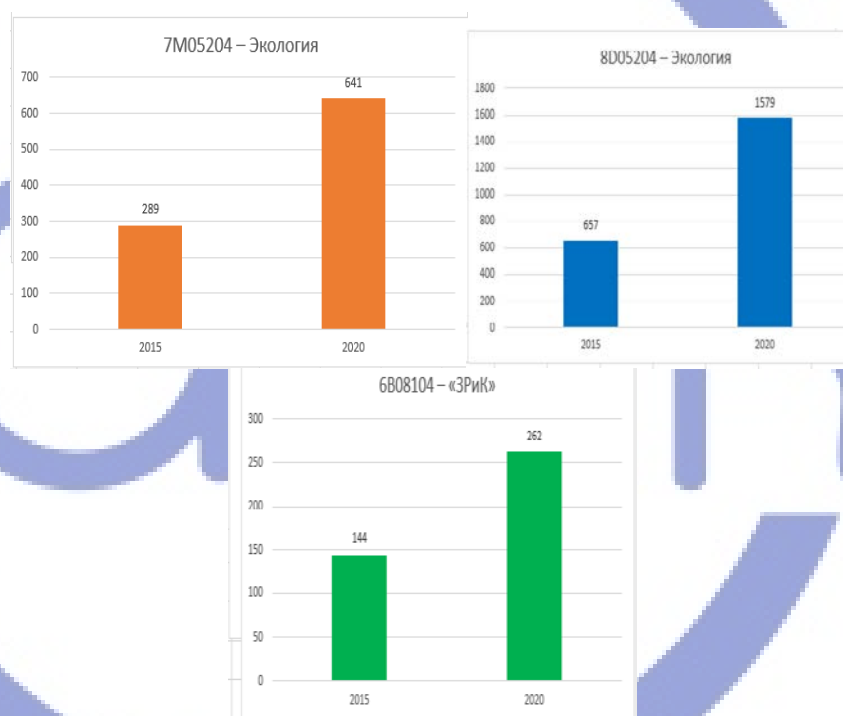


Figure 3 - Comparison of the availability of UML in the Kazakh language 2015-2020

According to EP 7M05204 / 8D05204 - "Ecology" and 6B08104 - "Plant Protection and Quarantine", the recommendation "to increase the provision of EPs with literature in the state language" - the recommendation is being implemented (Figure 3).

The main role in assisting in the formation and promotion of the educational trajectory is played by teachers - advisers. Experienced teachers - candidates of technical sciences, Ph.D., masters are appointed as advisors for the formation of individual learning paths.

For students to choose an individual educational trajectory, the necessary conditions are created, which include:

- the ability to choose the language of instruction, the form of education (full-time, distance), elective disciplines, teachers;
- electronic registration for elective disciplines;
- formation of an individual curriculum;
- organization of an additional semester for repeated or additional study of disciplines;

possibility of distance learning;
 familiarization with the personal results of educational achievements;
 the possibility of studying within the framework of academic mobility;
 the ability to use the educational portal;
 the possibility of using the electronic library of KazNARU, the Republican interuniversity electronic library;
 the possibility of field training practices;
 for conducting laboratory and practical work, students can use specialized classrooms, multimedia classes.

The University conducts systematic work to monitor the academic performance of students. The mechanism for assessing the knowledge, skills, and qualities acquired by students in the course of training is reflected in P KazNARU RAQTS-294 "Rules for assessing the quality of training sessions" (2018), P KazNARU RCCP IFC-284 "Rules of the current control of progress, intermediate and final certification of students of KazNARU "(2018).

The University constantly monitors the effectiveness of the educational services provided by systematically conducting student surveys using various standardized questionnaires. The survey is conducted twice a year. The results of the survey are analyzed. A corrective action plan is drawn up to eliminate the negative indicators of the survey.

In KazNARU, a system for considering complaints from students by the university management has been formed. According to the results of interviews with teaching staff, students and graduates of the 2nd cluster, it was found that the procedure for responding to complaints is functioning.

The main methods of periodic evaluation of educational activities include questionnaires, conversations and surveys; internal audits; analysis of the rector's blog, "boxes of complaints and suggestions"; content analysis of the media, etc. One of the important indicators of students' trust in the administrative apparatus of the university is the rector's blog.

In the learning process, a criterion generally accepted in world practice is used on a scale of letter and number designations, which reflects the mechanism for implementing a credit transfer based on the ECTS credit system. In accordance with this scale, grades are given in oral and written exams.

When implementing a student-centered approach in the feedback process, the wishes and needs of students are taken into account and decisions are made that are taken into account when compiling the EP. Feedback with the student is carried out through the definition of an individual login and password, which creates the possibility of forming a two-way connection between the subjects of the educational process. Access to the necessary study materials can also be obtained through the "Education Portal" of the university website. Monitoring of progress along the educational trajectory is carried out through the Platonus AIS system, where the student can familiarize himself with his educational achievements through his personal account, which creates the opportunity to control his achievements.

An element of assessing the knowledge of students is the milestone control, which is used on the 7th and 15th weeks of the educational process and reflects the results of the current control by putting down the milestone results in the statement. In the educational documentation of the faculty, the results of the midterm control for the past 7 weeks (1st midterm control) and for 15 weeks (2nd midterm control) are recorded. The results are discussed at the meetings of the departments.

Topics of diploma works are assigned to students at the beginning of the graduation course and are approved by order of the rector. The topics of diploma works on the educational program are annually reviewed and approved at the meetings of the departments. Analysis of graduation projects for 2016/2020 shows the lack of repetition of topics on the EP. The topics of master's and doctoral dissertations are approved in the 1st year.

To conduct the final certification, a state certification commission (SAC) is created for each specialty for all forms of education. The chairmen of the state attestation commission are scientists from the universities of the republic, managers, leading specialists of enterprises.

At an open lesson, there must be the presence of leading teachers of the relevant department and faculty, young teachers. A prerequisite for drawing up a schedule is the holding of open classes by doctors and candidates of sciences in the magistracy. The results are summarized, analyzed and discussed at the department, at a meeting of the faculty councils, as well as the University EMC. The duties of the heads of departments include visiting the teaching staff classes and organizing mutual visits at the departments.

Also, when forming commissions for the defense of diploma, master's and doctoral works, representatives from among the most competent persons of the teaching staff of the department are invited, with the involvement of third parties (Chairman of the SAC), who have the appropriate qualifications, scientific degree, work experience in SAC commissions.

For the successful development of educational programs by students, teaching staff of accredited departments, to increase the interest of students in educational and cognitive activities, such teaching methods as problem-oriented, project methods, group discussions, presentations, work in groups are introduced into the educational process.

Interactive and innovative teaching methods are provided with appropriate resources. For example:

- in the educational process in all areas is used: software CorelDRAW, Adobe Photoshop; for statistical data processing - spreadsheet systems (Microsoft Excel), database management systems (Microsoft Access, Database), presentation preparation systems (Microsoft PowerPoint), organization of remote technologies on the ZOOM, BBB, Microsoft Teams platforms.

- EP 7M05204/8D05204 – «Ecology», 7M08104/8D08104 – «Plant Protection and Quarantine» laboratory work is carried out using real-virtual laboratory complexes in research centers.

- EP 8D05204 – «Ecology», 7M08104/ 8D08104 – «Plant Protection and Quarantine» - application of elements of dual training in the workplace with the participation of employers. For example, according to the schedule, training sessions are held at the Research and Production Center for Microbiology and Virology LLP, Kazakh Research Institute of Plant Protection and Quarantine LLP named after Zh. Zhienbaev.

As an example of feedback on the use of various teaching methods and assessment of learning outcomes for accredited EPs, one can give examples such as: feedback through the use of formative assessment techniques in the classroom: oral feedback from the teacher and the teacher, "mutual assessment in pairs" - can be carried out in pairs, thus, students can check each other, mini-testing and subsequent mutual verification of results, training using the software of research institutes and centers.

Analytical part

Developments for publication on their own teaching methods at the department of ZRiK only at the planning stage, the presented publication data on teaching methods in the areas: "Resource-saving technologies of agro ecosystems", "Resource-saving technologies of rapeseed agro ecosystem in the conditions of the foothill zone of the South-East of Kazakhstan" of the department "Ecology" should be attributed to the group of publications on the specifics of the scientific direction.

The final element for assessing educational achievements is an intermediate certification, which is carried out after studying the discipline during the examination session. The duration of the examination sessions and the number of examinations is determined in accordance with the academic calendar and the approved working curriculum of the specialty. Forms of conducting exams within the framework of accredited EPs:

- EP 6B05201 – «Ecology» - orally (4-questions);
- EP 7M05204 – «Ecology» - orally (4- questions);

- EP 8D05204 – «Ecology» - orally (4- questions);
- EP 6B08104 – «PPQ» - until March 2020 orally (4 questions), from March 2020 - summatively, according to the results of midterm control 1 and 2 in Platonus, as well as in the form of tests.
- EP 7M08104 – «PPQ» - in writing (tickets);
- EP 8D08104 – «PPQ» - in writing (tickets);

An external expert commission at the previous accreditation procedure made a recommendation "to develop funds for assessment tools that allow for an objective, accurate and comprehensive assessment of the formation of students' professional competence in accordance with the level of education (according to the standard)". The EEC Commission notes the lack of choice and alternatives to the oral and written form of the exam in the form of tickets with 4 questions for the reporting 5 years. The recommendation of the previous EEC commission has not been fully implemented.

In addition, the EEC commission notes the lack of advanced training of teaching staff in the field of studying modern, new methods, evaluating the learning outcomes of students.

Strengths / best practice for accredited EPs

- strengths have not been identified by the members of the EEC.

Recommendations for EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 – "Plant protection and quarantine"

1. To the EP Management 6B05201/7M05204/8D05204 – «Ecology», 6B08104/7M08104/8D08104 – «Plant Protection and Quarantine» it is necessary to ensure the passage of advanced training courses for teaching staff in the field of studying modern, new methods for assessing the learning outcomes of students and applying the studied methods starting from the 2021-2022 academic year.

According to the standard " Student-Centered Learning, Teaching and Performance Evaluation " 10 criteria are disclosed, of which 10 have a satisfactory position.

6.6. Standard "Students"

The evidentiary part

To implement a systematic policy of forming a contingent of students, the University carries out a set of measures that ensure the image of the University as a whole. The university has a model for the formation of a contingent of students, based on the principle of electiveness by applicants and students of the specialty and form of education.

The University publishes and distributes leaflets for graduates of schools of the current year and those who pass the CTA with brief information about the list of documents, the deadlines for admission to all stages. A booklet is published annually, which contains information about the specialties of the university and a list of documents indicating the time frame. The university conducts trial tests for graduates, organizes trips to the districts of the Almaty region for career guidance. Graduates are invited to the Open Day at the university. The duty of technical secretaries is organized annually, responsible. secretary of the selection committee at the mobile numbers indicated on the website. Teaching staff of accredited departments conduct career guidance conversations in schools in Almaty, as well as colleges in the city.

The admissions committee engages the media to repeatedly explain the technology for conducting the Unified National Testing, comprehensive testing and the competition for awarding educational grants.

Announcements are systematically broadcast on regional radio and television to explain the rules of the competition, the peculiarities of the formation of the student contingent. For applicants, stands are issued in Kazakh and Russian with the necessary information on admission.

The issues of contingent formation and the results of admission are considered at meetings of the departments and the Academic Council of the faculty, as well as an analysis of admission is carried out and measures are developed for conducting career guidance work.

Undergraduate education is conducted on the basis of general secondary, technical and vocational, higher (higher professional) education. The requirements established by the Ministry of Education and Science of the Republic of Kazakhstan - the presence of an UNT certificate with a passing score (70) or CTA (for college graduates) are imposed on persons entering the undergraduate educational program for accredited EP KazNARU.

Admission of foreign citizens to the University is carried out according to the allocated quota on the basis of the state educational order in international higher educational institutions established on the basis of interstate agreements, as well as on a paid basis. For foreign students there is an adaptation program, which includes a set of measures for socio-psychological and academic support.

To ensure the objective recognition of higher education qualifications, periods of study and prior education, including the recognition of non-formal education, the university:

ensures the compliance of the actions of the Lisbon Recognition Convention;

cooperates with the Center for the Bologna Process and Academic Mobility of the Ministry of Education and Science of the Republic of Kazakhstan, which is the executive body for the recognition and nostrification procedure in the Republic of Kazakhstan.

Table 7 - The formed contingent of students in the context of accredited EPs as of 09/01/2020.

Academic year	Form of study	Total students	Grant students		Students on a paid basis		Number of expelled students
			rus	kaz	rus	kaz	
EP 5B060800 – «Ecology»							
2016-2017	Full-time /distance/part-time	38/-/2	3/-/-	12/-/-	4/-/1	19/-/1	-/-/-
2017-2018	Full-time /distance/part-time	55/-/3	6/-/-	16/-/-	4/-/1	29/-/2	1/-/-
2018-2019	Full-time /distance/part-time	80/-/7	9/-/-	29/-/-	5/-/6	37/-/1	-/-/-
EP 5B060800/6B05201 – «Ecology»							
2019-2020	Full-time/distance	95/9	9/-	49/-	5/4	32/5	-
2020-2021	Full-time/distance	112/13	14/-	68/-	6/4	24/9	-
EP 6M060800 – «Ecology»							
2016-2017	Full-time	26	-	25	-	1	-
2017-2018	Full-time	12	-	11	1	-	-
2018-2019	Full-time	4	-	2	1	1	-
EP 6M060800/7M05204 – «Ecology»							
2019-2020	Full-time	12	-	11	-	1	-
2020-2021	Full-time	12	-	11	-	1	-
EP 6D060800 – «Ecology»							
2016-2017	Full-time	10	-	8	-	2	-
2017-2018	Full-time	15	-	13	-	2	-
2018-2019	Full-time	12	-	10	-	2	-
EP 6D060800/8D05204 – «Ecology»							
2019-2020	Full-time	7	-	7	-	-	-
2020-2021	Full-time	4	-	4	-	-	-

EP 5B081100 – «Plant Protection and Quarantine»							
2016-2017	Full-time /distance/part-time	465/-/4	74/-/-	346/-/-	6/-/1	39/-/3	2/-/-
2017-2018	Full-time /distance/part-time	453/-/1	82/-/-	336/-/-	2/-/-	33/-/1	2/-/-
2018-2019	Full-time /distance/part-time	388/-/6	44/-/-	315/-/-	2/-/2	27/-/4	4/-/-
OII 5B081100 / 6B08104 – «Plant Protection and Quarantine»							
2019-2020	Full-time/distance	327/7	18/-/-	286/-	3/13	20/4	-/-/-
2020-2021	Full-time/distance	242/11	3/-	223/-	0/4	16/7	-/-
EP 6M081100 – «Plant Protection and Quarantine»							
2016-2017	Full-time	11	10	-	1	-	-
2017-2018	Full-time	8	8	-	-	-	-
2018-2019	Full-time	15	15	-	-	-	-
OII 6M081100/7M08104 – «Plant Protection and Quarantine»							
2019-2020	Full-time	18	18	-	-	-	-
2020-2021	Full-time	24	24	-	-	-	-
EP 6D081100 – «Plant Protection and Quarantine»							
2016-2017	Full-time	16	16	-	-	-	-
2017-2018	Full-time	8	8	-	-	-	-
2018-2019	Full-time	20	20	-	-	-	-
EP 6D081100/8D08104 – «Plant Protection and Quarantine»							
2019-2020	Full-time	19	19	-	-	-	-
2020-2021	Full-time	25	25	-	-	-	-

Internship of undergraduates and doctoral students

According to the orders on internships, the management of the EP ensures the passage of scientific internships of undergraduates and doctoral students accredited by the EP in the following organizations:

Table 8 – Places for scientific internships by doctoral students of accredited EPs

EP	Place of internship
8D05204 – «Ecology»	"Angel Kančev" University of Ruse (Bulgaria) Akdeniz University (Antalya, Turkey) University of Palermo UNIPA (Palermo, Italy) Selcuk University (Konya, Turkey) All-Russian Research Institute (St. Petersburg, Russia) College of "Chemistry and Environmental Management" at the Ili Pedagogical University (Kulzha, China) Mugla University (Mugla, Turkey) Banat University of Agricultural Sciences and Veterinary Medicine named after King Michael (Timisoara, Romania) Vladimir State University Alexander Grigoryevich Stoletovs (VISU), (Vladimir, Russia)
8D08104 – «Plant Protection and Quarantine»	Szent Istvan University, Hungary Plovdiv University (Bulgaria) Ohio State University, USA Institute of Systematics and Ecology of Animals RAS, Russia Plant Protection Institute NRI, Poznań, Poland

Discounts, benefits, incentives.

- Recognition of the merits and educational achievements of gifted children is determined at the university by transferring students on a contractual basis to vacant grants, submitting applicants with excellent performance and active participation in the activities of the university for a scholarship of the President of the Republic of Kazakhstan.

- In addition, in the second and subsequent years, discounts and benefits are provided to full-time students on a paid basis upon successful completion of the examination session.

- Preferential categories of students (orphans, without parental care, with disabilities, large families, low-income students) are provided with discounts ranging from 20 to 50%.

- There is a provision of food for orphans.

- Financial assistance is provided to students, provided by the student trade union committee.

Disabled students once a semester receive financial assistance in the amount of 5,000 - 10,000 tenge, depending on the reasons for applying for help. Students diagnosed with gastritis, diabetes mellitus, tuberculosis once every 2 months receive financial assistance in the amount of 5,000-10,000 tenge, depending on the reasons for seeking help. Students from large, low-income, single-parent families, family students with children receive financial assistance in the amount of 5,000-10,000 tenge once a semester, depending on the reasons for applying for help.

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Employment. General control over the process of employment of university graduates is carried out by the Sector of Practice and Employment. Every year, the university appoints responsible for employment at the faculty level and at the level of graduating departments. Every year, the university holds a university-wide job fair with the participation of employers from various fields of activity. Feedback with graduates is maintained through negotiations, correspondence, meetings and e-mail, as well as conducting a survey of graduates of the current year and past years.

The analysis of satisfaction of graduates with their employment is carried out on the basis of data from a survey of graduates of previous years.

The percentage and number of employments of full-time graduates in accredited EPs are shown in Table 9.

Table 9 - Employment of students of accredited EPs

EP	year of issue									
	2016		2017		2018		2019		2020	
	Total graduates, people.	% employment	Total graduates, people	% employment	Total graduates, people.	% employment	Total graduates, people	% employment	Total graduates, people	% employment
6B05201 «Ecology»	6	83	5	80	6	83	19	68	15	53

7M05204 «Ecology»	–	10	100	14	86	11	64	1	100	3	67
8D05204 «Ecology»	–	3	100	15	100	3	100	5	100	7	100
6B08104 «PPQ»	–	66	83	92	88	115	92	125	95	98	90
7M08104– «PPQ»		17	77	8	75	2	100	6	100	9	89
8D08104 «PPQ»	–	7	100	11	100	3	100	2	100	2	100

Extracurricular activities of students. To ensure extracurricular activities of students, the following service services operate:

- Department of student creativity. The main task of the Department is to stimulate the creative activity of students, identify and support talented youth, create conditions for the implementation of creative initiatives of students, promote the development of youth creative associations and amateur art circles of the university, develop the skills and abilities of KazNAU students in the field of creativity, introduce students to traditions and spiritual values of the university, increasing the competitiveness of university graduates in the modern labor market.

The main direction of the Department's work is to organize cultural events for students, where they can demonstrate their talents and abilities. There are 10 amateur art circles of the university: "Traditional Song", Vocal and Instrumental Ensemble "Altyn Dan", Orchestra of Folk Instruments named after. A. Zhubanova, "Performing songs on the guitar", Dance group "Gul-Banu". Vocal, Pop song, Academic singing, Zhas Talent Student Theater, Recording Studio.

The university has the following student collegiate bodies:

- Committee for Youth Affairs (hereinafter CYA);
- the youth wing of the party "Zhas otan";
- Student Council;
- student trade union committee;
- debate club "Ziyaly kazak"

Academic mobility of students of EP 3 cluster. The university provides an opportunity for external and internal mobility of EP students. In order to develop and maintain academic mobility, the Center for Academic Mobility has been established at the university. Academic mobility in KazNARU is carried out within the framework of partnerships with universities and research and educational centers of Kazakhstan, countries of near and far abroad. Information about the programs of external and internal mobility, as well as a list of partner universities, students, and teaching staff, can find on the website of the university in the tab "Cooperation / Foreign partners / Academic mobility, etc., consult with advisers, at the department, at the dean's office.

When organizing internal and external mobility, there is a difference in the curricula of KazNARU and the host country. In this regard, academic support is provided for students who have left under the academic mobility program. This happens through the organization of the educational process on distance learning technologies and providing students with the opportunity to extend the examination session to eliminate the academic difference.

Academic mobility can be financed through:

- means of the republican budget;
- extra budgetary funds of the university;
- grants from national companies, social partners, international funds;
- personal funds of students.

After completing their stay at the host university, students submit a transcript and an advance report (in the case of training at the expense of the republican budget, the university).

Based on the transcript, the student, in accordance with the Kazakhstani credit transfer system of the ECTS type, is subject to mandatory credit transfer.

To ensure the academic mobility of KazNARU students and the recognition of educational programs in the European educational space, it is necessary to recalculate Kazakhstani loans into ECTS credits.

Statistical data on the implementation of the academic mobility program for students in OP 3 of the cluster are shown in Table 10.

Table 10 - Academic mobility of students of accredited EPs

Academic year	Full name of students	University	out/in, external/internal
EP 6B05201 – «Ecology»			
2016-2017	Rakhymov A.	Czech University of life Sciences Prague. (Czech Republic, Prague)	initial\ external - 1
EP 7M05204 – «Ecology»			
2015-2016	Ismagulova E., Babazhanova S.	University of Hohenheim in Stuttgart, Germany	initial\ external - 2
6B08104 – «Plant Protection and Quarantine»			
2016-2017	Beisembayeva M.	Szent Istvan University, Hungary	initial\ external - 1
2016-2017	Otesinova L.	Plovdiv University (Bulgaria)	initial\ external - 1
2017-2018	Kazhigul D., Shamuza A., Zamkenova A., Karipbayeva N., Akhymalkhan M., Beisenaliev A.	Plovdiv University (Bulgaria)	initial\ external - 6
EP 7M08104 – «Plant Protection and Quarantine»			
2015-2016	Kozhagalieva A	West Kazakhstan Agrarian Technical University named after Zhangir Khan (RK)	incoming, internal - 1

Research work of students. Students of accredited EPs take part in the research activities of the university. Information on participation is given in tables 11-12.

Table 11 - Information on the participation of students of accredited EPs in research work, etc. for the period 2015-2020

EP	quantity				
	Number of published articles	Participation in research work, contractual work with teaching staff	Participation in scientific projects	Participation in international, grant programs and competitions, ESF, Erasmus, DAAD, etc., Bolashak, etc.	Participation in international conferences
6B05201 – «Ecology»	1	-	-	-	-
7M05204 – «Ecology»	39	-	-	-	12

8D05204 – «Ecology»	33	4	5	8	15
6B08104 – «Plant Protection and Quarantine»	12	9	-	2	-
7M08104 – «Plant Protection and Quarantine»	16	3	10	-	1
8D08104 – «Plant Protection and Quarantine»	34	2	16	-	5

Information on the availability of prizes for students of accredited EPs in the context of 2015-2020 are shown in Table 12.

Table 12 - Data on the availability of prizes for students of accredited EPs in the context of 2015-2020

Full name of students	Конкурс	Acad.year	Достижение
6B05201 – «Ecology»			
Askerbekova A., Nurtayeva A., Nursultan A.	XXII student scientific conference "Contribution of students to the development of agricultural science-2018"	2017- 2018	Diplomas of 1,2,3 degree
Yuldashbek D.	International student conference. Student Scientific Forum	2019- 2020	Diploma
8D05204 – «Ecology»			
Baikhamurova M.	International student conference Student Scientific Forum	2019- 2020	Diploma
EP 6B08104 – «Plant Protection and Quarantine»			
Abdulmaksut A., Amantaikyzy Zh	XX student scientific conference	2016- 2017	Diplomas of 1,2 degree
Nugerbekova A., Bakuova A., Kalmakhan R.	XXII student scientific conference "Contribution of students to the development of agricultural science-2018"	2017- 2018	Diplomas of I, II degree
Almakhanova S., Tanabayeva A., Ongar U., Tenizbay Zh.	XXIII student scientific conference	2018- 2019	Diplomas of I, III degree
Khamza N. Kh.	XXIV student scientific conference	2019- 2020	Diplomas of I degree
Amangeldi A., Artykbay A.	International student conference. Student Scientific Forum	2019- 2020	Diplomas of III degree

Analytical part

Mobility. Table 10 shows statistical data on the implementation of the academic mobility program for students in EP 3 of the cluster. EEC experts note the weak implementation of the program "outgoing external academic mobility" according to EP 6B05201 / 7M05204 / 8D05204 - "Ecology", the lack of implementation of the program "incoming academic mobility" (according to EP 7M08104 - "Plant Protection and Quarantine" - 1 person is an insufficient indicator) for all accredited EPs, the absence of indicators for the item "outgoing internal academic mobility" for all accredited EPs.

Research, grants.

During the reporting period from 2015 to 2020, students of accredited EPs took part in research work and other projects (tables 11-12). However, with the exception of doctoral students of the EP "Ecology", based on the data of tables 11-12, EEC experts note the weak participation of students from the remaining OP 3 clusters in international, grant programs and competitions, FPP, Erasmus, DAAD, etc., Bolashak, lack of participation in research work of students of the EP "Ecology".

Alumni Association.

At the time of the accreditation procedure, EEC experts studied the web page of the university website dedicated to the activities of the Alumni Association (<https://www.kaznau.kz/page/tulekter/?lang=ru>), which contains an appeal by the rector of the university to university graduates. EEC experts observe the lack of information on the events held since 2016. During interviews with cluster graduates, it was also noted that the university did not inform about the activities of the Association, not a single graduate confirmed his membership in this organization.

Strengths / best practices for accredited EPs

- strengths have not been identified by the members of the EEC.

Recommendations for EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine"

1. In accordance with the University Development Program for 2020-2024, the guidelines of EP 6B05201 / 7M05204 / 8D05204 - "Ecology", 6B08104 / 7M08104 / 8D08104 - "Protection and Quarantine of Plants", starting from 2021-2022 academic year, include indicative indicators in the development plans of the EP and implement the following points: "the participation of students in the program "incoming and outgoing, external and internal academic mobility", "organization of additional, formal and non-formal education", "participation of students in competitions of Republican and international significance, in obtaining external grants, participation in Scientific Research Work, etc."

2. The management of the university should develop and implement a comprehensive program for organizing the academic mobility of students (external and internal) in the online learning model with the attraction of funds from various sources of funding.

3. The management of the university should take measures to improve the performance of the Alumni Association, namely, start implementing the Association's work plan, while informing about the activities of the Association through all possible information sources.

According to the standard "Students" 12 criteria are disclosed, of which 10 have a satisfactory position and 2 require improvement.

6.7. Standard "Teaching Staff"

The evidentiary part

In order to develop teaching staff and employees, the university ensures the development of the Human Resources Policy, which combines the approaches, methods and tools of personnel management, taking into account the best experience in the field of work with personnel, and forming a unified approach and system of values of the university in the field of personnel management. The activities of the university to develop the potential of teachers are aimed at changing its role in accordance with the transition to student-centered education.

The personnel policy of KazNARU was developed in accordance with the University Development Program for 2020-2024. The policy represents the main directions and approaches of personnel management for the implementation of the mission and strategic goals of KazNARU.

The admission of the teaching staff is carried out on a competitive basis in accordance with the documented procedures of the university. Information about the competition and the availability of a vacant position for faculty and researchers is posted in the periodicals of the Republic of Kazakhstan and on the official website of the university, at least thirty calendar days before the deadline for accepting documents. The information includes the title of the vacant position and the requirements for experience and qualifications. Consideration of applications for vacant positions is carried out by a competitive commission from among the administrative and managerial staff and teaching staff.

For an objective consideration of individual labor disputes, a conciliation commission has been created at the university.

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For an objective consideration of individual labor disputes, a conciliation commission has been created at the university.

In the department of "Ecology": the owner of the badge "Excellent worker of education", academician of the Ministry of Agriculture of the Republic of Kazakhstan, doctor of agricultural sciences, professor Suleimenova N.Sh.; holder of the badge "Excellent worker of education" of the Ministry of Education and Science of the Republic of Kazakhstan and the "Bronze medal named after A. Baitursynov", the badge "For contribution to agricultural sciences" professor, Ph.D. Makhamedova B.Ya., winner of the medal "For contribution to the development of education and science" assoc. professor, Ph.D. Anarbekova G.D.; General Director of the RSE "Institute of Botany and Phytointroduction" G. Sitpaeva, Leading Researcher of the RSE "Institute of Zoology" P. Esenbekova.

in the Department of PPQ: - Academician A. Sagitov, General Director of the Kazakh Research Institute of Plant Protection and Quarantine (KazRIPPQ), doctor of science, head. laboratory of biological plant protection KazNRIPPQ - Chadinova A.M.

Table 13 - Staff composition of teaching staff of accredited departments as of 09/01/2020

Title, position	Quantity	
	Ecology	PPQ
Total PPP in the state, including:	17	34
Doctors of Science	1	-
Candidates of Sciences	5	16
PhD	1	4
Masters	8	11
degree, %	42 %	59 %
including:	1	-
Professors, pers.	1	13
Associate professors, pers.	2	5
Associate professors, pers.	10	8
Senior teachers, pers.	3	8
Teachers, pers.	2	2
Part-timers, pers.	44	48

Percentage of the teaching staff implementing the EP of the accredited cluster (taking into account the teaching staff of general education disciplines):

- EP 6B05201 – «Ecology» - 50 %;
- EP 7M05204 – «Ecology» - 100 %;
- EP 8D05204 – «Ecology» - 100 %;
- EP 6B08104 – «Plant Protection and Quarantine» - 59 % ;

- EP 7M08104– «Plant Protection and Quarantine» - 100 %;

- EP 8D08104 – «Plant Protection and Quarantine» - 100 %;

Conditions for the work of teaching staff, the incentive system for teaching staff. The following conditions are created at the university to intensify the scientific and research activities of the teaching staff:

- rating system of remuneration and financial incentives based on the results of the semester;
- monthly bonuses to the best 50 teaching staff of the university based on the results of their activities.

- free access to the library fund and information resources of the university;

- providing an opportunity to improve qualifications at the expense of the university, including in foreign organizations;

- organization of English language courses for a 3-year period as part of the grant program of the university in a language school;

- the creation of conditions for the use of computer and office equipment, technical training aids, and other equipment;

- facilitating participation in Kazakhstani and international competitions of scientific works and competitions for individual grants;

- publication of methodological developments of employees;

- a one-time stimulating bonus for publication in rating publications;

- providing financial support to undergraduates, doctoral students during the pandemic and on applications in individual cases;

- awarding diplomas and thanks to the top management of the university, city and region for achievements in the field of educational and scientific activities, social work and many years of conscientious work;

- providing housing for young teaching staff.

Identification of the needs of the teaching staff is carried out through the mechanisms of questioning the teaching staff, discussing issues at the collegiate bodies of the university (meetings of the department, faculty council, academic council).

A set of measures of social support contributes to the creation of conditions for the personal development of teachers. The Trade Union Committee of the University provides material assistance in accordance with the clauses of the Collective Agreement of KazNARU to employees for anniversaries, for treatment, operations, spa treatment, etc. For teaching staff and employees, a hostel is provided if there are free places in it.

The needs of employees are determined by means of a questionnaire.

The effectiveness of the financial motivation of teachers and staff is determined by the quality of work of teaching staff and staff and is ensured by saving the university's own funds. The existing system of financial motivation in the university includes:

- monthly bonuses for outstanding employees (50 best teaching staff at the end of the year)

- bonuses for publication in top scientific journals.

The non-financial motivation of teaching staff includes a system of recognition and awards related to the results of labor activity and the social activity of employees. The system of awards includes corporate awards and distinctions of the university, as well as state and departmental awards.

EEC experts note the purposeful actions of the leadership of the EP of the accredited cluster to improve the skills of young teaching staff. In particular, during the reporting period, more than 7 teaching staff studied in doctoral studies in the profile of directions of the Department of Ecology, including the specialty 8D05204 - "Ecology". In addition, there are good indicators in the field of advanced training of teaching staff in foreign educational organizations.

Commercialized research work of teaching staff. In 2015-2020 Teaching staff of the departments of Ecology and PPQ, producing accredited EPs, took part:

- 1) Department of "Ecology":

- Implementation of resource-saving technologies for soybean cultivation under irrigation conditions, 4.5 million tenge, grant of the Ministry of Education and Science of the Republic of Kazakhstan, 2015-2016, supervisor - Suleimenova N.Sh.

- Development of scientific bases for monitoring the effectiveness of plant systems and technologies for reducing CO₂ concentrations in the atmosphere of a large urbanized area, 2 million tenge, (grant of the Ministry of Education and Science of the Republic of Kazakhstan, 2015-2016, supervisor - Suleimenova N.Sh.

- Improvement of weed control measures on soybean crops in the system of short-rotation crop rotation in the conditions of the south-east of Kazakhstan, 4.05 million tenge, grant of the Ministry of Education and Science of the Republic of Kazakhstan, 2016-2017, supervisor - Suleimenova N.Sh.

- Development of the agro-industrial complex and safety of crop production in the conditions of the south-east of Kazakhstan under global climate change 60 million tenge, grant of the Ministry of Education and Science of the Republic of Kazakhstan, 2017-2018, supervisor - Suleimenova N.Sh.

- BR05236444 "Testing innovative technologies in the development of horticulture in arid regions of Kazakhstan" 1.1.1. on the priority "Rational use of natural resources, incl. water resources, geology, processing, new materials and technologies, safe products and structures", 30 million tenge, grant of the Ministry of Education and Science of the Republic of Kazakhstan, 2018-2019, supervisor – Suleimenova N.Sh.

- The effectiveness of innovative technology in solving the environmental problems of the agroecosystem when cultivating soybeans in the conditions of the southeast of Kazakhstan, 3.29 million tenge, grant from the Ministry of Education and Science of the Republic of Kazakhstan, 2019-2020, supervisor - Suleimenova N.Sh.

2) Department "PPQ"

- Production and registration tests of chemicals on the territory of the Republic of Kazakhstan, more than 160 million tenge, 2017-2020, Supervisor - Agibaev A.Zh., Khidirov K.R.

Within the framework of accredited EPs, joint projects are implemented with foreign partner universities:

- according to OP 6B05201/7M05204/8D05204 - "Ecology" - a joint textbook "Environment and Man" was published with the Agrarian University of Plovdiv, Bulgaria, 2017, 2018 a scientific study was conducted in the direction of Ecology "Checking the influence of complexing agents of organic origin on the development of winter rapeseed in different periods of sowing" with the University of Angel Kanchev (Ruse, Bulgaria).

- according to OP 6B08104 / 7M08104 / 8D08104 - "Plant protection and quarantine, joint projects are being implemented with foreign partner universities: As part of a partnership project with Ohio State University, with funding from the American Council in the Republic of Kazakhstan (150 thousand US dollars) in the direction of "Strengthening research potential USA and Kazakhstan through joint institutional agricultural training, research and outreach with KazNAU, 2019, publication of a scientific article in the framework of the Bolashak scholarship and fellowship of associate professor Dutbaev Y.B. at the University of Michigan (USA), 2020

KazNARU is actively working in the field of expanding international contacts. Stable relations have been established for scientific and educational work with leading universities of the Republic of Kazakhstan, the CIS and far abroad, a list of which is presented on the website of the university.

Scientists from foreign partner universities were invited to give lecture courses to students of accredited EPs (Table 14).

Table 14 - Invitation of foreign scientists

Full name of the professor	University, country	Name of the module/course	Visit period
Educational program 7M05204 / 8D05204 Ecology			

Filippova Margarita	Angel Kanchev University of Ruse (Ruse, Bulgaria)	Rational use of natural resources Management of doctoral students of the Ecology educational program	26.11.2016-11.12.2016
Educational program 7M08104/8D08104 - "Plant protection and quarantine"			
Ludovic Sagan	Slovak University of Agricultural in Nitra, Slovakia	Toxicological control of product quality	06.10.2017-20.10.2017
Bozhena Lozovichka	Scientific Research Institute of Plant Protection, (Bialystok, Poland)	Toxicological control of product quality	06.10.2018-20.10.2018
Khalil Toktai	University of Omer Halisdemir. Faculty of Agricultural Science and Technology (Turkey)	General entomology	2019-2020

Advanced training of teaching staff. The university provides opportunities for career growth and professional development of teaching staff of educational programs. Currently, professional development of teaching staff at the university is carried out in the following areas:

- advanced training in structural divisions of other universities of the Ministry of Education and Science of the Republic of Kazakhstan, which have state accreditation, scientific institutions or organizations licensed to carry out educational activities in the field of additional education;
- internships within the framework of the university's multilateral cooperation with leading industrial enterprises and research institutes;
- training in internal courses and advanced training seminars (organized on the basis of the university).

KazNARU creates the necessary conditions for training, retraining and advanced training of employees. The University organizes advanced training courses and internships for teaching staff. The terms of training are set in accordance with the annual plan of advanced training courses and internships. Teaching staff improves their qualifications at universities of the Republic of Kazakhstan and foreign educational organizations.

Information on foreign internships of the teaching staff by year is presented in the table 15.

Table 15 - Advanced training of teaching staff in foreign educational institutions

Full name	University, country	Name of the module/course	Visit period
Department of Plant Protection and Quarantine			
Dutbaev E.B.	Michigan State University (USA)	Bolashak Scholarship. "Identification of plant diseases using inexpensive methods"	2017
Dutbaev E.B.	Novosibirsk State University (Russia)	Online course. "Introduction to Data"	2018
Dutbaev E.B.	Novosibirsk State University (Russia)	Online course. "Comparison and selection of groups"	2018
Sapakhova Z. B.	Washington State University, Pullman, (USA)	"Zero technology and salicylic acid"	2019
Suleymanova G.A.	Istanbul (Turkey)	Participation in the conference "Human health and biodiversity of wheat"	2019

Department of "Ecology"			
Mahamedova B. Ya. Raiymbekova I. Jarylkasynova G.Sh. Abdrakhimov N. Erekeeva S. Alzhanova L.A.	Czech University of Life Sciences (Czech Republic, Prague)	Enhancing competencies of central Asian universities in agricultural policy focused on environmental protection and land management «ECAP» ERASMUS+	2016
Mahamedova B. Ya. Alzhanova L.A. Raiymbekova I. Shibikeeva A.M. Erekeeva S.	University of Natural Resources and Life Sciences Vienna (Austria, Vienna)	«Educational aspects of Environmental protection and Land Management» ERASMUS+	2017

The experts of the external expert commission noted a positive trend in the development of young teaching staff studying for master's and doctoral studies through the purposeful development of their professional skills during internships and internships. For example, during interviews with the heads of research institutes, when visiting the practice bases, the following points were voiced: young scientists are attracted to practice and internship to gain professional practical experience in the specialty direction with their further employment in these research institutes.

Publication activity of the teaching staff. According to the results of scientific research, teachers regularly publish scientific articles and reports in various periodicals and proceedings of international and national conferences. For the period 2015-2020, the teaching staff of the departments published more than 55 articles and abstracts in rating scientific publications, 37 intellectual property objects were registered. Statistical data on the publication activity of teaching staff of the departments of accredited educational programs are given in the table 16.

Table 16 - Scientific publications of teaching staff of the departments of accredited educational programs for 2015-2020.

	Publications	2016	2017	2018	2019	2020
Department of Ecology	Publications:					
	- WoS, Scopus	1	3	1	4	2
	- RSCI	-	-	1	-	-
	- Committee for Control in the Sphere of Education and Science (CCSES)	26	12	38	12	14
	- journals of the University and other publications of the Republic of Kazakhstan	26	12	38	12	14
	Patents, Copyright certificate (CC)	-	-	-	-	-
	Textbooks, teaching aids	2	3	1	1	5
	Monographs	-	-	1	-	-
	Publications	2016	2017	2018	2019	2020
Department of Plant	Publications:					
	- WoS, Scopus	10	12	14	11	11
	- RSCI	-	-	-	-	-

Protection and Quarantine	- Committee for Control in the Sphere of Education and Science (CCSES)	20	15	17	10	9
	- journals of the University and other publications of the Republic of Kazakhstan	13	8	15	11	10
	Patents, Copyright certificate (CC)	22	15	-	-	-
	Textbooks, teaching aids	10	3	2	1	3
	Monographs	-	-	-	-	-

Analytical part

The university has created favorable social conditions for teaching staff, such as the work of the health center, the functioning of gyms. An interview with the teaching staff of the accredited cluster confirmed the existence of favorable working conditions. In addition, the survey of teaching staff on the issue of the presence of inappropriate conditions for classes in classrooms showed the result - 0%, 89.7% of the interviewed teaching staff are satisfied with the terms of remuneration, working conditions, the list and quality of services provided at the university, 97.4% of respondents are satisfied.

At the same time, the results of the survey of teaching staff show single unsatisfactory answers in the field of the moral and psychological climate at the university, the designation of problematic moments in the implementation of educational programs, such as low provision of the educational process with the necessary conditions, lack of laboratory classrooms and supplies, unsatisfactory work in solving social problems.

The teaching staff of the 3 cluster departments use ICT in the educational process in the form of use in the educational process in all areas: CorelDRAW, AdobePhotoshop; for statistical data processing - spreadsheet systems (Microsoft Excel), database management systems (Microsoft Access, Dbase), presentation preparation systems (Microsoft PowerPoint), organization of remote technologies on ZOOM, BBB, Microsoft Teams platforms, laboratory work using real-virtual laboratory complexes in research centers. However, after conducting interviews in target groups, studying video recordings of classes provided to the experts of the EEC, it can be concluded that the management of the university and the management of educational programs need to carry out purposeful work on the acquisition of teaching staff skills, development and further use in the educational process of popular and effective today such ICTs as MOOC, e-portofolio, Coursera, etc.

Mobility of teaching staff. Within the framework of international activities, the university has an academic mobility program, which involves the training and scientific activities of university teachers in partner higher educational institutions within Kazakhstan or abroad. The rules and recommendations for the organization of academic mobility of teachers and students are given in P KazNAU AM-285 "Rules for the organization of academic mobility". However, the EEC commission notes that the departments of accredited educational programs "do not trace the presence and dynamics of development or a plan for the development of outgoing academic mobility of teaching staff. Teachers implementing accredited educational programs poorly realize the opportunity to exchange experience in universities of Kazakhstan, although a high level of their professional competence is in demand and will be effective in other universities. During the interview with the teaching staff, an answer was given about the reasons for not participating in the academic mobility program, these are the high requirements of the host foreign partner universities for the publication activity of teaching staff in rating publications.

In addition, the Commission of the EEC notes the absence of the activity of the teaching staff of the departments in the academic mobility program (lecturing), in the presence of existing Erasmus programs, as well as the lack of using the opportunity to implement the program of outgoing and incoming mobility with universities of the Republic of Kazakhstan.

The EEC Commission notes the good potential of the participation of teaching staff of the accredited Departments of Ecology and Plant Protection and Quarantine together with partner enterprises in international competitions and grant programs, which, unfortunately, is not being implemented at the moment.

When analyzing statistical data on the publication activity of the teaching staff of Cluster 3 (Table 16), the Commission of the EEC notes the absence of its own publications in the form of monographs for both departments of cluster 3, in addition, there is a lack of activity in the registration of intellectual property objects, for the Department of Ecology, as well as the termination of work in this area by scientists of the Department of Plant Protection and Quarantine since 2018. Also, the Commission of the EEC drew attention to the low indicators for publications of the Faculty of the Department of Ecology in rating journals, although in the presence of annual issues of doctoral students, these indicators can be stabilized by the scientific supervisors of doctoral students.

Strengths / best practices of accredited educational programs are not observed

1. The correspondence of the personnel potential of the strategy of the university and the specifics of educational programs can be traced in the stable dynamics of advanced training of teaching staff in international educational organizations, research centers of Republican significance in the field of the specifics of accredited educational programs in attracting to educational activities experienced specialists from among the senior staff of large organizations of the Republic of Kazakhstan in the field of agriculture, for example, such as - Director General of the RSE "Institute of Botany and Phytointroduction" G. Sitpayeva, Director General of the Kazakh Research Institute of Plant Protection and Quarantine (KazRIPPQ), Doctor of Sciences Head. laboratory of biological plant protection KazRIPPQ - Chadinova A.M. et al..

2. The management of educational programs 6B05201/7M05204/8D05204 – "Ecology", 6B08104/7M08104/8D08104 – "Protection and quarantine of plants" provides targeted actions for the development of young teachers in terms of providing opportunities for PhD studies at the university, including teaching staff groups in the Erasmus+ program in the direction of the program topics, providing employment opportunities and acquiring practical skills in large research institutes after passing scientific internships of doctoral and undergraduates who are employees of departments.

Recommendations for EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 – "Plant protection and quarantine"

1. The management of the university and the responsible structural unit, when conducting the next survey of teaching staff for satisfaction with working conditions, take into account the unsatisfactory answers of the previous survey (including clarifying questions). After the survey, if necessary, to carry out additional corrective measures.

2. The university management should develop a mechanism to stimulate the use of teaching staff of online learning technologies based on electronic courses of disciplines, MOOC and other ICTs by the 2021-2022 academic year. In the 2021-2022 academic year, the responsible structural unit of the University should provide advanced training courses for university teaching staff in the field of development and application of MOOC, Coursera, etc. courses in the educational process.

3. In accordance with the University Development Program for 2020-2024, in the plans for the development of educational programs 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine", in the plans for the development of the Faculty of Agrobiological Sciences to provide indicative indicators of the participation of teaching staff in the program "outgoing - external and internal academic mobility of teaching staff", "incoming internal academic mobility".

4. In accordance with the University Development Program for 2020-2024, in the plans for the development of educational programs 6B05201/7M05204/8D05204 – "Ecology", 6B08104/7M08104/8D08104 – "Protection and quarantine of plants", in the plans for the

development of the Faculty of Agrobiology to provide indicative indicators of the participation of teaching staff in the implementation of such items as "publication of monographs, including in Kazakh and English", "registration of intellectual property", "publication in rating publications".

According to the standard " Teaching Staff ", 12 criteria are disclosed, of which: 2 criteria have strong positions, 9 positions are satisfactory, 1 position requires improvement.

6.8. Standard "Education Resources and Student Support Systems"

The evidentiary part

The University ensures the availability of sufficient, accessible and relevant educational resources and student support services. When allocating, planning and providing educational resources, the university takes into account the needs of various groups of students.

The infrastructure of the university is a single complex with academic buildings, student houses, many research and innovation centers, hubs, institutes, greenhouses, agrotechnological, arboretum parks, veterinary clinic, research laboratories, museum complex, library resources, sports facilities and other facilities that ensure the scientific, educational and educational process.

The useful study area belonging to the university on the right of economic management meets the requirements of fire safety, qualification requirements for the activities of educational organizations and the requirements of state general education standards, implemented specialties.

The university effectively operates various student support services (academic support, social support, technical support, financial support), which are characterized by accessibility and demand.

Academic support for students is provided by: the admission committee, the registration and student documentation office, the academic knowledge organization sector, the practice and employment sector, the academic mobility center, the library, and other services.

Social support for students is provided by the Department of Educational Work, sports clubs, health center, creative teams and musical associations.

The support of students at the university is also carried out by ensuring public order and protection of academic buildings and dormitories of the university, ensuring the safety of the material base, the functioning of catering facilities in academic buildings. The university has a Department for regime and Security, there is a pass regime.

Identification of the needs for support of various groups and categories of students at the university is carried out primarily through the Institute of advising and curating. After identifying the needs, the adviser orients students to apply to certain departments and services (department, dean's office, registration office, academic mobility center, educational work department).

Students are supported by curators whose main task is to organize educational work with students, promote student self-government and involve students in the socially significant and creative life of the university, promote professional self-determination and professional adaptation of students at the final stage of their studies at the university.

The identification of students' needs is also facilitated by the analysis of the results of the questionnaire, meetings of students with the university administration, and an appeal to the rector's blog.

The University provides nonresident students with the necessary living conditions in a dormitory. At the moment, the university has 6 student 2 houses of undergraduates and doctoral students. Accommodation in the hostel is carried out in accordance with the Rules of residence in the hostel, in compliance with established sanitary standards. The dormitories provided by the university are equipped with all the necessary social infrastructure for organizing the life of students and the versatile development of students.

One of the priorities of the university is the formation and strengthening of a healthy lifestyle culture. The University provides conditions for active sports for teaching staff and students: the KazNARU sports Club, which is a separate subdivision of the university, operates on a free basis.

The club has created and operates sports sections for 16 sports. The base has sports sections for volleyball (men's, women's), football (men's, women's), boxing, freestyle wrestling, sambo, judo, taekwondo, togyz-kumalak, chess, athletic gymnastics, aerobics, a cheerleading section, a bullet shooting section is planned to open.

Once a month, the club organizes weekend hikes - hiking trips to the Small and Large Almaty gorges, Turgen waterfalls, Charyn canyons and other tourist attractions of Kazakhstan. The University is rich in sports traditions in many sports – boxing, volleyball, basketball, futsal, national sports, chess and other sports.

The University provides free medical care to students, staff and pensioners of the university. The university has a medical center "Mediker", the main tasks of which are:

- Provision of pre-medical care, emergency care, primary diagnostics and outpatient treatment; organization and conduct of annual preventive medical examinations of students and staff;

- Sanitary and educational work, measures for the prevention of infectious diseases, preventive vaccinations, monitoring of students who have been in contact with infectious patients, outpatient admission, injury prevention, preparatory measures for the organization of preventive medical examinations and medical examinations in accordance with the orders and instructions of the health authorities.

At the departments of accredited programs, a learning environment has been created that reflects the specifics of educational programs, which includes: technological support for students and teaching staff of accredited educational programs when working with various software complexes used in teaching various disciplines and performing research work; personalized interactive resources (with access and outside of school hours), including educational materials and assignments, ensuring that students can receive them through remote access to the university portal (e-learning); technical staffing of educational laboratories with universal software.

Compliance with safety requirements in the learning process.

The training areas comply with the current sanitary standards, fire safety requirements and qualification requirements. The functions of ensuring the safety of students and employees of the University are assigned to the Department of Regime and Security. In order to ensure safety requirements in the process of training, employees of the Department of Economic Work protect all University facilities around the clock, as well as patrol the adjacent territory. A procedure has been developed and is being implemented that regulates the entry/exit procedure of students, teaching staff, employees, visitors and guests of the University, as well as employees of state and law enforcement agencies.

In order to ensure the safety of students and employees, all academic buildings of the University are equipped with fire and security alarm systems. This system includes, in addition to the alarm system.

When conducting laboratory work, independent laboratory work is started only after passing a safety briefing and mastering safe techniques and methods of their implementation. The teacher who conducted the briefing must make an entry in the register of the briefing at the workplace with a mandatory signature of the person being instructed and instructing.

During the survey, 94% of the surveyed students expressed the opinion that the equipment and equipment for students are safe, comfortable and modern. Among the surveyed teaching staff - 100% are satisfied with labor protection at the university and its safety.

Wi-Fi, Internet access. There is free access to educational Internet resources for all students on the basis of reading rooms and computer classes of the university. Wi-Fi is available in all academic buildings and dormitories of the university. The University provides access to all of the above resources for students and teachers from any location and at any time of the day, which is confirmed by the data of the survey of students (the results of the survey on the availability and quality of Internet resources – 72.3% of the surveyed students are completely satisfied).

Library fund.

The library fund of accredited educational programs is shown in table 17.

Table 17 - Library fund of accredited educational programs as of 01.11.2020

№	Educational program	Language	Number of students	Book Fund					Book availability, units/person
				Total	Educational literature	Educational and methodical complex	Scientific Foundation	Own publications	
1	6B05201 – «Ecology»	rus	20	5044	2227	1132	1221	464	252
		kaz	91	13520	5619	2885	3514	1502	148
2	7M05204 – «Ecology»	rus	-	4300	1989	938	1115	258	-
		kaz	12	9889	3661	2498	2569	1161	824
3	8D05204 – Ecology»	rus	-	3644	1756	687	965	236	-
		kaz	4	7556	1847	2456	2132	1121	1889
4	6B08104 – «Plant protection and quarantine»	rus	3	21817	10786	5532	4529	970	7272
		kaz	239	66471	29568	17141	16762	3000	278
5	7M08104– «Plant protection and quarantine»	rus	24	3385	1578	572	953	282	141
		kaz	-	5672	2869	942	1557	304	-
6	8D08104 – «Plant protection and quarantine»	rus	25	3654	1593	602	1144	315	146
		kaz	-	5783	2919	981	1574	309	-

KazNARU publishes quarterly the Scientific journal "Izdenister/Research", which publishes the results of scientific research of teaching staff and students. The electronic version of the journal is placed in the repository and in the section "About the library" on the university's website.

According to the results of the survey, 97.6% are satisfied with the level of accessibility of library resources, 96.4% of students are satisfied with the quality of services provided in libraries and reading rooms, 100% of the surveyed teaching staff assessed the sufficiency and availability of the necessary scientific and educational literature in the library as satisfactory.

Library readers can use the electronic resources of the Republican Interuniversity Electronic Library for free. The KazNARU Scientific Library has access to such international information resources as Scopus, Web of Science, which significantly expands the range of use of electronic resources.

Teaching staff of accredited departments contribute to the replenishment of the educational and methodological base for the implementation of accredited educational programs. Data on the publications of the teaching staff in the context of languages are given in Table 18.

Table 18 - Information of the library fund on publications of the teaching staff of the 3rd cluster (textbook, textbooks, monographs, educational and methodical complex) used in the educational process in the context of educational programs, languages of instruction

Educational programs	Number of items	By languages of instruction		
		kaz	rus	eng
6B05201/7M05204/8D05204 - "Ecology"	440	230	165	73
6B08104/7M08104/8D08104 - "Plant protection and quarantine"	31	21	10	-

Professional practice. The total volume of professional practice for bachelor's degrees is at least 6 credits. All types of professional practices are implemented in accordance with the standard and working curriculum in terms determined by the academic calendar.

For the passage of professional practices of students, there are cooperation agreements (contracts are submitted to the experts of the EEC), information on active contracts is given in Table 19. The orders for the internship were submitted.

Table 19 - Organization of professional practices for students of accredited educational programs.

Educational program	Organization, current contract No.
6B05201/ 7M05204/ 8D05204 - "Ecology"	<ul style="list-style-type: none"> - LLP "Agrofirma TZHN and K", contract No. 04-04 /49A dated 03.2020 y. - RSE on the REM "Institute of Human and Animal Physiology" of the Committee of Science of the Ministry of Education and Science of the Republic of Kazakhstan, Contract No. 04-04/08 dated 08.02.2020 y. LLP "RSE on the REM "Kazhydromet", contract No. 04-04/12 dated 30.03.2020 y. - CSI "Narynkol Forestry" State Institution "Department of Natural Resources and Environmental Management of Almaty region" Contract No. 04-04/80A dated 30.03.2020 y. - LLP "Republican Research, Production and Information Center "Kazecology"", contract No. 16/SA 20 dated 25.05.2020 y. - The Department of Agrochemical, Soil Surveys and Complex Survey Work is a branch of the Non-Profit Joint-Stock Company State Corporation "Government for Citizens in Almaty", Contract No. 04-04/03 dated 10.01.2020 y. - LLP "EKO-KS", contract No. 04-04/79 dated 30.03.2020 y. - RSI "Charyn State National Natural Park", Contract No. 04-04/103A dated 04.02.2018 y. -CSI "Shelek Forestry" State Institution "Management of Natural Resources and Environmental Management of Almaty region", contract No. 04-04/73A dated 30.03.2020 y.
6B08104/ 7M08104/ 8D08104 - "Plant protection and quarantine"	<ul style="list-style-type: none"> - LLP "Southwest Research Institute of Livestock and Crop Production" contract No. 04-04/41 dated 25.12.2018 y. - LLP "Kazakh Research Institute of Rice Growing named after I.Zhakhaev", contract No. 04-04/72A dated 21.06.2018 y. - LLP "Kazakh Research Institute of Plant Protection and Quarantine named after Zh. Zhienbayeva", contract No. 06.03.2017 y. - LLP "Kazakh Research Institute of Agriculture and Plant growing", contract No. 01-01-814 dated 21.06.2018 y.

The submitted agreements with partner companies, online visits to the practice bases confirmed the availability of the possibility of choosing a place for students to undergo professional practices and all the necessary conditions for obtaining professional competencies. In addition, final attestations of students are organized on the bases of partner enterprises, which gives graduates a good opportunity to show their acquired competencies and get a certain place of work in their field of activity.

Anti-plagiarism. At the university, in order to improve the quality of the organization and efficiency of the educational process, control the degree of independence of students' graduation theses (projects), master's theses, as well as increase their self-discipline and respect for intellectual property rights, all works are checked for plagiarism in accordance with P KazNAU 309 "Regulations on the use of the Anti-Plagiarism system" from 2020 (an unapproved version of the Regulations is presented to Experts). There is an agreement No. 08-04-27/53 with the supplier of the licensed version of the Antiplagiat software dated 13.05.2020. The contract is valid until 2031.

Branches of the department. Undergraduates and doctoral students of accredited educational programs have the opportunity to acquire practical skills at the branches of departments of partner organizations (table 20):

Table 20 - Organization of the educational process and research activities at the branches of departments of partner enterprises

Educational programs	Organization	Embedded modules, disciplines, academic year, course, semester
8D05204 – "Ecology"	LLP "Scientific and Production Center of Microbiology and Virology"	Environmental degradation and Ecosystem Sustainability - 1 st course, 1 st semester.
7M08104– "Plant protection and quarantine"	LLP "Kazakh Scientific Research Institute of Plant Protection and Quarantine" named after Zh. Zhiembayeva	Insect pathogens - 2nd course, 2nd sem.
8D08104 – "Plant protection and quarantine"		"Methodology of scientific experiment" - 1st course, 2nd sem.

Analytical part

Information about the laboratory base for the implementation of educational programs by departments.

Department of "Ecology"

The Department of Ecology uses lecture halls and classrooms for practical work equipped with the necessary ICT (projector, screens) for the implementation of accredited educational programs, there is a computer class for 14 seats. In addition, there are 2 scientific laboratories "Ecotoxicology", "Stationary Laboratory", which are equipped with the following equipment and devices: photoelectrocolorimeters, small-sized gas analyzers, PH meter, noise meter, spector analyzer, laboratory centrifuge, electronic thermometer TMC -9210 M1, analytical and laboratory scales, centrifuges, drying cabinets, distillers, etc.

In addition, undergraduates and doctoral students of accredited educational programs have the opportunity to conduct scientific and experimental research on the basis of research institutes, research centers with which there are partnership agreements on cooperation, in particular in the Research Institute of Plant Biology and Biotechnology, LLP "Scientific and Production Center of Microbiology and Virology".

EEC experts note the need to modernize the educational laboratories of the Ecology Department. When the university receives the status of "Research", as well as in the presence of all 3 levels of study in the field of "Ecology", with a good scientific potential of the teaching staff of the department, and, consequently, the expansion of the directions of scientific trajectories of educational programs, the development of joint activities with foreign partner universities, the organization of interdisciplinary relations, the department needs to have a multifunctional mobile laboratory complex that can be used for environmental studies; in addition, it is necessary to expand the range of currently available standard set of educational equipment with a set of modern digital devices (sensors) to assess the environmental condition and measure the level of environmentally significant characteristics.

Department of Plant Protection and Quarantine

To implement the educational program 6B08104/7M08104/8D08104 – "Plant protection and quarantine", the department uses lecture halls with ICT, educational laboratories - phytopathology:

- optical microscopes with digital cameras for identification of pathogenic agents and small piercing-sucking insects, packages (whales) for express diagnostics of phytopathogenic viruses and bacteria, chemical protection and pesticide chemistry;

- modern gas-liquid chromatographs for determining the composition and residual amounts of pesticides, entomology;
- equipment for identification and synthesis of biologically active substances that determine the behavior of insects.

In addition, undergraduates and doctoral students have the opportunity to conduct research, in coordination with the university administration, in the laboratories of the Kazakh-Japanese Innovation Center, KazRIPPQ.

In order to increase the activity of undergraduates and doctoral students, as well as to ensure recognition at the international level, it is advisable to increase the degree of provision of the material and technical base by expanding the park with modern scientific equipment: an electron microscope, equipment for performing molecular biological research (PCR, IFA, HPLC) or by forming specialized interdisciplinary research rooms.

Students of accredited educational programs at the interview expressed their wish to organize workplaces in laboratory rooms when working in subgroups in a strict ratio: 1 student - 1 workplace, since today this condition is not fulfilled.

EEC experts note that if there is an extensive list of various research and innovation centers, hubs, greenhouses, parks, etc. at the university, the leadership of the university and the leadership of the departments of accredited educational programs should contribute to the development of a dual education system for students of all levels. The data in Table 20 (branches of departments) did not confirm the development of dual education according to the educational programs 6B05201/7M05204 - "Ecology" and the educational program 6B08104 - "Plant protection and quarantine". In addition, during the survey of students, it was also noted the desire to increase the time of classes at profiling enterprises.

In order to promote the idea of creating equal opportunities, within the framework of the development of inclusive education, the University needs to continue the process of creating all the necessary conditions for learning, scientific and creative activities for students with disabilities.

Having studied the statistical data on the publication activity of the teaching staff in the context of languages (Table 18), EEC experts noted that in order to strengthen the competitiveness of students in the professional market, as well as to provide additional conditions for the implementation of the program of academic mobility of students, the need to develop and publish educational literature in English is very relevant today (if there are master's and doctoral programs - an important criterion), but three clusters are insufficiently developed at accredited departments.

The survey of students showed positive data on the provision of educational materials in the learning process (96.3%), financial and administrative services of the educational institution (94%), availability of health services (92.8%), existing educational resources of the university (88%).

Strengths / best practices of accredited educational programs are not observed

- strengths have not been identified by the members of the EEC.

Recommendations for EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine"

1. The management of the university and the management of educational programs 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine" to ensure full-fledged practical training, provide each student with an individual workplace in the educational laboratories of the university.

2. The management of the educational program 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine" to carry out purposeful work on the organization of classes with students from 2021-2022 academic year with elements of dual training at the bases of partner enterprises, research institutes, centers, hubs, etc.

3. The management of the educational program 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine" in the Plans for the development

of educational programs, starting from 2021-2022 academic year, include an item on improving infrastructure and educational and methodological support, taking into account the special needs of students.

4. In accordance with the University's Development Program for 2020-2024, the management of the educational program 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine", starting from 2021-2022 academic year, include indicative indicators in the development plans of educational programs and implement the following items: "development of educational literature, including guidelines, manuals for practical and laboratory work, including in English".

5. The management of educational programs 6B05201/7M05204/8D05204 - "Ecology" 6B08104/7M08104/8D08104 - "Protection and quarantine of plants" in the plans for the development of the educational program include a point of modernization of educational laboratories, taking into account the scientific activities of teaching staff implementing these educational programs, and apply for the purchase of necessary equipment by the beginning of the 2021-2022 academic year. The university management should consider the possibility of fulfilling this application by 2023.

According to the standard " Education Resources and Student Support Systems ", 10 criteria are disclosed, of which all 10 have satisfactory positions.

6.9. Standard " Public Information "

The evidentiary part

The University publishes information about its activities, including the implementation of educational programs. The information provided to the public is clear, accurate, objective, relevant and accessible. The information policy of the university is aimed at:

- ensuring a stable information flow of news about significant events and achievements in the media;
- attracting the interest of potential consumers to new programs and innovative developments of university scientists;
- support and explanation of the national development programs of the country and the system of higher and postgraduate education.

The information policy is implemented by the Department of Public Relations and Editorial Activities, whose functions include determining the priority directions of information policy, forming plans for its implementation using all available information sources, ensuring the completeness and efficiency of information, developing existing and searching for new media, as well as monitoring the media in order to adjust information activities.

The University provides information to the public about its activities through the official website www.nkzu.kz, local and republican media, regional television programs, newspapers, social networks.

The main partners of the university in the implementation of information policy are: regional television channels, regional and city newspapers, websites of the leading republican news agencies "Kazinform", "B News", newspapers "Egemen Kazakhstan" and "Kazakhstanskaya Pravda", leading republican television channels "Khabar", "24 KZ", "Kazakhstan". A full-text database of publications in regional and republican printed publications about the university's activities, the entire database of publication activity of the university's teaching staff is posted on the KazNARU website under the heading "About the Library".

The University uses a variety of ways to disseminate information, including support and explanation of the national development programs of the country and the system of higher and postgraduate education, as well as posting publicly available information on financial statements

(<https://www.nkzu.kz/page/view?id=1056>). Links to external resources based on the results of external evaluation procedures are published.

The university management also uses other ways to disseminate information – briefings held by the management, open days, job fairs at the university, round tables with heads of enterprises and organizations, exhibitions of achievements, demonstrations of new technologies and equipment introduced.

Information security, which guarantees the trust of consumers and other interested parties, is provided through role-based access control, server system administration, backup system, restriction of access of individuals to the premises with servers.

The survey of students conducted during the visit of the external expert commission of the Independent Accreditation Agency of the rating showed that satisfaction with the content and information content of the website of educational organizations in general and faculties (schools) in particular and informing students about courses, educational programs and academic degrees received is 93.9 and 95.2%.

Analytical part

The information published by the university within the framework of educational programs is objective and relevant, including: information about educational programs, the possibility of awarding qualifications at the end of the educational program, about teaching, training, evaluation procedures, information about passing scores and educational opportunities provided to students. However, the EEC experts note the need to revise the mechanism for submitting information in open access about graduate employment opportunities, since during an interview with the responsible structural unit, it was found out that the university does not have a mechanism for direct employer-graduate communication. In addition, the tab on the university's website for graduates/vacancies reflects single, outdated, irrelevant data. Employers and other interested persons do not have the opportunity to independently, without the assistance of employees of the practice and employment sector, choose a candidate for employment from among graduates.

The university demonstrated the reflection on the web resource of information characterizing the university as a whole. However, the EEC experts noted an insufficient number of publications characterizing accredited educational programs on the web pages of departments.

On the main page of the site there is a section "Faculty" with brief information about the teaching staff of the Departments of Ecology and Plant Protection and quarantine. The teacher's portfolio does not include education, research interests, awards, a list of publications, disciplines and presentations of training courses and other materials necessary for interested parties. In addition, having available at the departments of teaching staff implementing not only accredited educational programs, but also other specialties, the list of teaching staff is not divided by educational programs.

The EEC experts also noted that in order to create an image and a PR company, information for the public about cooperation and interaction with partners within the framework of accredited educational programs should be covered on the web pages of departments and other informative sources systematically and in more detail.

Strengths / Best practices on accredited educational programs:

- strengths have not been identified by the members of the EEC.

Recommendations for EP 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 – "Plant protection and quarantine"

1. The responsible structural unit on the University's website should ensure that the "Graduates" tab is filled in in a timely and systematic manner/Vacancies", and also include the "Partners" tab/Graduates' resumes" with annual data updates.

2. To inform the public about the availability of professional personnel within the accredited educational programs 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 -

"Plant protection and quarantine", namely, about teaching staff implementing educational programs (taking into account general education modules), on the department's web page, as necessary, update the personal data of teaching staff in the context of the educational program, with the inclusion of complete and objective information in the data.

3. The management of accredited educational programs 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Protection and quarantine of plants" as new information becomes available, update the publication in external sources of information, including on the university's website, on cooperation and interaction with universities and partner organizations within the educational program, as well as on all activities carried out within the framework of accredited educational programs.

According to the standard " Public Information " standard, 13 criteria have been disclosed, of which 10 have satisfactory positions, 3 require improvement.

6.10. Standard "Standards in the context of individual specialties"

The evidentiary part

In order to familiarize students with the professional environment and current issues in the field of specialization, as well as to acquire skills based on theoretical training, 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - "Plant protection and quarantine" include disciplines and activities aimed at gaining practical experience and skills in the specialty as a whole and profile disciplines.

Students of accredited educational programs are organized excursions to enterprises in the field of specialization to enterprises according to tables 19, 20.

The teaching staff involved in the education program includes full-time teachers with long-term experience as a full-time employee at enterprises in the field of specialization of the education program.

For example:

- for students of accredited educational programs 6B05201/7M05204/8D05204 - "Ecology": General Director of the Republican State Enterprise "Institute of Botany and Phytointroduction" G.Sitpaeva, leading researcher of the Republican State Enterprise "Institute of Zoology" P. Esenbekova;

- for students of accredited educational programs 6B08104/7M08104/8D08104 - "Plant protection and quarantine": Academician - A.Sagitov, Director General of the Kazakh Research Institute for Plant Protection and Quarantine (KazRIPPQ), Doctor of Sciences, Head. laboratory of biological plant protection KazRIPPQ - Chadinova A.M.

The content of the profile disciplines 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - " Plant protection and quarantine " is based in one way or another and includes a clear relationship with the content of fundamental natural sciences such as mathematics, chemistry, physics. In particular, mathematics, chemistry, and physics are assigned as prerequisites for most basic disciplines that are the basis for the study of core disciplines.

At the branches of the departments, separate classes are held in the core disciplines of accredited educational programs according to table 20 of the standard "Educational resources and Student Support systems".

Analytical part

The management of accredited educational programs provides training of students in the field of application of standard information technologies. The experts of the EEC note the need to introduce into the educational process current computer software complexes that allow not only to gain skills in these software, but also to be able to commercialize their services in professional activities after graduation. As an example, we can cite the study of the Era software package for

students of the Ecology direction, automatic complexes for monitoring and regulating the number of harmful organisms (Agro-Expert, iMETOS) - for students of the Plant Protection and Quarantine direction.

Strengths / Best practices on accredited educational programs:

- strengths have not been identified by the members of the EEC.

EEC recommendation for 6B05201/7M05204/8D05204 - "Ecology":

1. The management of educational programs should include in the MTB development plan the point of purchase of a modern software package corresponding to the specifics of educational programs 6B05201/7M05204/8D05204 - "Ecology" until 2023.

Additional recommendation of the EEC for 6B08104/7M08104/8D08104 – "Protection and quarantine of plants":

2. The management of educational programs should include in the MTB development plan an item on the acquisition of a modern software package corresponding to the specifics of educational programs 6B08104/7M08104/8D08104 – "Plant protection and quarantine" until 2023.

According to the standard " Standards in the context of individual specialties " in the direction of criteria have been disclosed, of which 4 have a satisfactory position, 1 requires improvement.

(VII) OVERVIEW OF STRENGTHS/BEST PRACTICES OF EACH STANDARD

Standard " Management of Educational Program "

- strengths have not been identified by the members of the EEC.

Standard " Information Management and Reporting "

- strengths have not been identified by the members of the EEC.

Standard " Development and approval of the Educational Programme "

- strengths have not been identified by the members of the EEC.

Standard " On-Goig Monitoring and Periodic Review of Educational Programme "

- strengths have not been identified by the members of the EEC.

Standard " Student-Centered Learning, Teaching and Performance Evaluation "

- strengths have not been identified by the members of the EEC.

Standard " Students"

- strengths have not been identified by the members of the EEC.

Standard " Teaching Staff "

- The correspondence of the personnel potential of the strategy of the university and the specifics of educational programs can be traced in the stable dynamics of advanced training of teaching staff in international educational organizations, research centers of Republican significance in the field of the specifics of accredited educational programs, in attracting to educational activities experienced specialists from among the leadership of large organizations of the Republic of Kazakhstan in the field of agriculture, for example, such as - Director General of the Republican State Enterprise "Institute of Botany and Phytointroduction" G. Sitpaeva, Director General of the Kazakh Research Institute of Plant Protection and Quarantine (KazRIPPQ), Doctor

of Sciences, Head of the Laboratory of Biological Plant Protection KazRIPPQ - Chadinova A.M. and others.

- The management of the educational program 6B05201/7M05204/8D05204 – "Ecology", 6B08104/7M08104/8D08104 – "Protection and quarantine of plants" provides targeted actions for the development of young teachers in terms of providing opportunities for PhD studies at the university, including teaching staff groups in the Erasmus+ program in the direction of the program topics, providing employment opportunities and acquiring practical skills in large research institutes after passing scientific internships of doctoral and undergraduates who are employees of departments .

Standard " Education Resources and Student Support Systems "

- strengths have not been identified by the members of the EEC.

Standard " Public Information "

- strengths have not been identified by the members of the EEC.

Standard " Standards in the context of individual specialties"

- strengths have not been identified by the members of the EEC.

(VIII) OVERVIEW OF RECOMMENDATIONS ON QUALITY IMPROVEMENT

Standard " Management of Educational Program "

1. By the 2021-2022 academic year, the University management should review and approve the structure of the educational program development plans with the inclusion of measurable target indicators of strategic planning in the context of training levels and time intervals of implementation, indicating the responsible persons.

2. The management of educational programs 6B05201/7M05204/8D05204 – "Ecology", 6B08104/7M08104/8D08104 - " Plant protection and quarantine " to analyze the compliance of the current Development Plans of the educational program with the University Development Program for 2020-2024, to predict its relevance in the near and long term, using an annual review mechanism, involving stakeholders in the formation and publication of development plans in open access to the public.

3. To the management of educational programs 6B05201/7M05204/8D05204 – "Ecology", 6B08104/7M08104/8D08104 – " Plant protection and quarantine " and to the management of the faculty, in accordance with the University Development Program for 2020-2024, to include in the Development Plans of accredited educational programs, as well as in the development plan of the Faculty of Agrobiology, a section with assessment and management of possible risks in the implementation of accredited educational programs, indicating possible consequences in case of failure and (or) timely measures response, as well as with a description of risk management mechanisms and measures.

4. The management of EP 6B05201/7M05204/8D05204 – "Ecology", 6B08104/7M08104/8D08104 - " Plant protection and quarantine " in self-assessment documents should reflect a description of the progress made in implementing the recommendations received following the previous accreditation procedure, taking into account the results of interim post-monitoring reports.

Additional recommendation of the EEC for educational programs 6B08104/7M08104/8D08104 – " Plant protection and quarantine "

5. To ensure the completion of advanced training courses for managers of educational programs "Plant protection and quarantine" in the field of education management in the 2020-2021 academic year.

Standard " Information Management and Reporting "

1. The management of educational programs 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - " Plant protection and quarantine " annually analyze the progress of students, with identification and discussion of the causes of weak indicators of students, with the development of concrete actions to strengthen the requirements for improving the quality of training of students, with the reflection of all actions taken in the minutes of the meeting of departments.

Standard " Development and approval of the Educational Programme "

1. In the 2021-22 academic year, the management of the educational program 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 – " Plant protection and quarantine " to introduce modules into educational programs that allow students to prepare for professional certification, to carry out purposeful work on organizing the preparation of students for professional certification at regional enterprises and/ or international organizations and begin its implementation by 2022.

2. The management of the educational program 6B05201/7M05204/8D05204 – "Ecology", 6B08104/7M08104/8D08104 - " Plant protection and quarantine " in the development plans of the educational program include an item aimed at developing professional cooperation with Kazakh and foreign educational organizations on accredited educational programs for the harmonization of modules and the development of joint educational programs, develop and begin implementing joint educational programs until 2023-2024 academic year.

Additional recommendation of the EEC for the educational program 6B05201 - "Ecology":

3. The management of the educational program 6B05201 "Ecology" with the trajectory of training "Ecological tourism", in the modular educational programs for students in 2021 admission - to specify the results of training in accordance with the specifics of the trajectory and update the catalog of elective disciplines, in the modular educational programs for students in 2020 admission - to adjust the internal content of specialized disciplines according to the trajectory before the beginning of the 2nd semester of the 2020-2021 academic year, reflecting the changes made in the protocol of the department.

Standard " On-Goig Monitoring and Periodic Review of Educational Programme "

1. The management of the university in the 2020-2021 academic year needs to work out a mechanism for conducting appeals in the remote format of intermediate and final attestations, with an explanation of all procedures, deadlines in the regulatory document and bringing information to all students of the university through publication on the university's website.

2. The management of accredited educational programs 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - " Plant protection and quarantine " should ensure publication on the university's website about all changes and actions taken in relation to the educational program.

Standard " Student-Centered Learning, Teaching and Performance Evaluation "

1. The management of the educational program 6B05201/7M05204/8D05204 – "Ecology", 6B08104/7M08104/8D08104 – " Plant protection and quarantine " must ensure the passage of advanced training courses for teaching staff in the field of studying modern, new methods evaluating the learning outcomes of students and the application of the studied methods starting from the 2021-2022 academic year.

Standard " Students"

1. In accordance with the University Development Program for 2020-2024, the management of Educational programs 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 – " Plant protection and quarantine ", starting from 2021-2022 academic year, include indicative

indicators in the development plans of the educational program and implement the following items: "participation of students in the program "incoming and outgoing, external and internal academic mobility", "organization of additional, formal and informal training", "participation of students in competitions of National and international significance, in obtaining external grants, participation in research and development, etc."

2. The management of the University to develop and implement a comprehensive program for the organization of academic mobility of students (external and internal) in the online learning mode with the involvement of funds from various sources of funding.

3. The University management should take measures to improve the effectiveness of the Alumni Association, namely, to start implementing the Association's work plan, while informing about the activities of the Association through all possible informative sources.

Standard " Teaching Staff "

1. The management of the university and the responsible structural unit, when conducting the next survey of teaching staff for satisfaction with working conditions, take into account the unsatisfactory answers of the previous survey (including clarifying questions). After the survey, if necessary, to carry out additional corrective measures.

2. The university management should develop a mechanism to stimulate the use of teaching staff of online learning technologies based on electronic courses of disciplines, MOOC and other ICTs by the 2021-2022 academic year. In the 2021-2022 academic year, the responsible structural unit of the University should provide advanced training courses for university teaching staff in the field of development and application of MOOC, Coursera, etc. courses in the educational process.

3. In accordance with the University's Development Program for 2020-2024, the plans for the development of the educational program 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 – " Plant protection and quarantine ", the plans for the development of the Faculty of Agrobiolgy provide indicative indicators of the participation of teaching staff in the program "outgoing - external and internal academic mobility of teaching staff", "incoming internal academic mobility".

4. In accordance with the University Development Program for 2020-2024, in the plans for the development of the educational program 6B05201/7M05204/8D05204 – "Ecology", 6B08104/7M08104/8D08104 – " Plant protection and quarantine ", in the plans for the development of the Faculty of Agrobiolgy to provide indicative indicators of the participation of teaching staff in the implementation of such items as "publication of monographs, including in Kazakh and English", "registration of intellectual property", "publication in rating publications".

Standard " Education Resources and Student Support Systems "

1. The management of the university and the management of the educational program 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 – " Plant protection and quarantine " to ensure full-fledged practical training, provide each student with an individual workplace in the educational laboratories of the university.

2. The management of the educational program 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - " Plant protection and quarantine " to carry out purposeful work on the organization of classes for students from 2021-2022 academic year with elements of dual training at the bases of partner enterprises, research institutes, centers, hubs, etc.

3. The management of the educational program 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - " Plant protection and quarantine " in the development plans of the educational program, starting from 2021-2022 academic year, include an item on improving infrastructure and educational and methodological support, taking into account the special needs of students.

4. In accordance with the University Development Program for 2020-2024, the management of educational programs 6B05201/7M05204/8D05204 – "Ecology", 6B08104/7M08104/8D08104

– " Plant protection and quarantine ", starting from 2021-2022 academic year, include indicative indicators in the development plans of educational programs and implement the following items: "development of educational literature, including methodological guidelines, manuals for practical and laboratory work, including in Kazakh and English languages".

5. The management of the educational program 6B05201/7M05204/8D05204 - "Ecology" 6B08104/7M08104/8D08104 – " Plant protection and quarantine " in the plans for the development of the educational program to include a point of modernization of educational laboratories, taking into account the scientific activities of teaching staff implementing these educational programs, and apply for the purchase of necessary equipment by the beginning of the 2021-2022 academic year. The university management should consider the possibility of fulfilling this application by 2023.

Standard " Public Information "

1. The responsible structural unit on the University's website should ensure that the "Graduates" tab is filled in in a timely and systematic manner/Vacancies", and also include the "Partners" tab/Graduates' resumes" with annual data updates.

2. To inform the public about the availability of professional personnel within the accredited educational program 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 - " Plant protection and quarantine ", namely, about the teaching staff implementing the educational program (taking into account general education modules), on the web page of the department, as necessary, update the personal data of teaching staff in the context of the educational program, with the inclusion of complete and objective information in the data.

3. The management of accredited educational programs 6B05201/7M05204/8D05204 - "Ecology", 6B08104/7M08104/8D08104 – " Plant protection and quarantine ", as new information becomes available, update the publication in external sources of information, including on the university website, on cooperation and interaction with universities and partner organizations within the educational program, as well as on all activities carried out within the framework of the accredited educational programs.

Standard " Standards in the context of individual specialties"

EEC recommendation for 6B05201/7M05204/8D05204 - "Ecology":

1. The management of the educational program should include in the development plan of the material and technical base the point of purchase of a modern software package corresponding to the specifics of the educational program 6B05201/7M05204/8D05204 - "Ecology" until 2023.

EEC recommendation for 6B08104/7M08104/8D08104 – " Plant protection and quarantine":

2. The management of the educational program should include in the development plan of the material and technical base an item on the acquisition of a modern software package corresponding to the specifics of the educational program 6B08104/7M08104/8D08104 – "Plant protection and quarantine" until 2023.

(IX) OVERVIEW RECOMMENDATIONS FOR THE DEVELOPMENT OF THE ORGANIZATION OF EDUCATION

Harmonization of the content of the educational program of the university with foreign educational organizations, purposeful work on the development of joint educational programs with partner universities.

Further development of international relations with foreign educational organizations with the involvement of all interested parties, including employers, in the process.

Development of a PR management strategy of the university in order to strengthen competitiveness in the educational services market.

Appendix 1. Evaluation table "Conclusion of the external expert commission (6B05201/7M05204/8D05204 - Ecology . 6B08104/7M08104/8D08104 – Plant protection and quarantine)

№ п\п	№ п\п	Evaluation criteria	The position of the organization of education			
			Strong	Satisfactory	Suggests improvement	Unsatisfactory
Standard " Management of Educational Program "						
1	1	The university must have a published quality assurance policy.		+		
2	2	The quality assurance policy should reflect the relationship between research, teaching and learning.		+		
3	3	The university should demonstrate the development of a culture of quality assurance, including in the context of EP.		+		
4	4	Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint/double-degree education and academic mobility.		+		
5	5	The management of the EP ensures transparency in the development of the EP development plan based on an analysis of its functioning, the real positioning of the university and the orientation of its activities to meet the needs of the state, employers, stakeholders and students.			+	
6	6	The management of the EP demonstrates the functioning of mechanisms for the formation and regular revision of the development plan of the EP and monitoring its implementation, assessing the achievement of training goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.			+	
7	7	The management of the EP should involve representatives of groups of interested persons, including employers, students and teaching staff in the formation of a development plan for the EP.			+	
8	8	The management of the EP must demonstrate the individuality and uniqueness of the EP development plan, its compliance with national development priorities and the development strategy of the educational organization.			+	

9	9	The university must demonstrate a clear definition of those responsible for business processes within the framework of the EP, an unambiguous distribution of staff duties, and the differentiation of functions of collegial bodies.		+		
10	10	The management of EP must provide evidence of the transparency of the educational program management system.		+		
11	11	The management of the EP must demonstrate the successful functioning of the internal quality assurance system of the EP, including its design, management and monitoring, their improvement, and fact-based decision-making.		+		
12	12	The management of the EP should carry out risk management.			+	
13	13	The management of the EP should ensure the participation of representatives of interested persons (employers, teaching staff, students) in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.		+		
14	14	The university must demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals.		+		
15	15	The management of the EP must demonstrate evidence of openness and accessibility for students, teaching staff, employers and other interested persons.		+		
16	16	The management of the EP must be trained in educational management programs.		+		
17	17	The management of the EP should strive to ensure that the progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.			+	
Total according to the standard			0	11	6	
Standard " Information Management and Reporting "						
18	1	The university should ensure the functioning of the information collection, analysis and management system based on the use of modern information and communication technologies and software.		+		
19	2	The management of the EP should demonstrate the systematic use of processed, adequate information to improve the internal quality assurance system.		+		
20	3	Within the framework of the EP, there should be a system of regular reporting reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of departments and departments, scientific research.		+		
21	4	The university should establish the frequency, forms and methods of assessing the management of the EP, the activities of collegial bodies and structural units, senior		+		

		management, and the implementation of scientific projects.				
22	5	The university must demonstrate the definition of the procedure and ensuring the protection of information, including the identification of responsible persons for the reliability and timeliness of the analysis of information and the provision of data.		+		
23	6	An important factor is the involvement of students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.		+		
24	7	The management of the EP should demonstrate the existence of a mechanism for communication with students, employees and other stakeholders, including the existence of conflict resolution mechanisms.		+		
25	8	The university should provide a measurement of the degree of satisfaction of the needs of teaching staff, staff and students within the framework of the EP and demonstrate evidence of the elimination of the detected shortcomings.		+		
26	9	The university should evaluate the effectiveness and efficiency of its activities, including in the context of EP.		+		
		<i>The information collected and analyzed by the university should take into account:</i>				
27	10	key performance indicators;		+		
28	11	dynamics of the contingent of students in the context of forms and types;		+		
29	12	academic performance, student achievements and expulsion;			+	
30	13	satisfaction of students with the implementation of the EP and the quality of education at the university;		+		
31	14	availability of educational resources and support systems for students;		+		
32	15	employment and career growth of graduates.		+		
33	16	Students, employees and teaching staff must document their consent to the processing of personal data.		+		
34	17	The management of the EP should help to provide all the necessary information in the relevant fields of sciences.		+		
Total according to the standard			0	16	1	
Standard "Development and approval of the Educational Programme "						
35	1	The university should define and document the procedures for the development of EP and their approval at the institutional level.		+		
36	2	The management of the EP should ensure that the developed EP meets the established goals, including the expected learning outcomes.		+		
37	3	The management of the EP should ensure the availability of developed models of the graduate of the		+		

		EP, describing the learning outcomes and personal qualities.				
38	4	The management of the EP must demonstrate the conduct of external examinations of the EP.		+		
39	5	The qualifications obtained upon completion of the EP should be clearly defined, explained and correspond to a certain level of the NQS.		+		
40	5	The management of the EP should determine the influence of disciplines and professional practices on the formation of learning outcomes.		+		
41	6	An important factor is the possibility of preparing students for professional certification.			+	
42	7	The management of the EP must provide evidence of the participation of students, teaching staff and other stakeholders in the development of the EP, ensuring their quality.		+		
43	8	The labor intensity of the EP should be clearly defined in Kazakhstan loans and ECTS.		+		
44	9	The management of the EP should provide the content of academic disciplines and learning outcomes to the level of study (bachelor's, master's, doctoral studies).		+		
45	10	The structure of the EP should provide for various types of activities corresponding to the results of training.		+		
46	11	An important factor is the presence of joint EP with foreign educational organizations.			+	
Total according to the standard			0	10	2	
Standard "On-Goig Monitoring and Periodic Review of Educational Programme "						
47	1	The university should monitor and periodically evaluate the EP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the EP.		+		
		<i>Monitoring and periodic evaluation of the OP should consider:</i>				
48	2	the content of programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the discipline taught;		+		
49	3	changes in the needs of society and the professional environment;		+		
50	4	workload, academic performance and graduation of students;		+		
51	5	effectiveness of student assessment procedures;		+		
52	7	expectations, needs and satisfaction of students with training in EP;		+		
53	8	the educational environment and support services and their compliance with the goals of the EP.		+		
54	9	The university and the management of the EP must provide evidence of the participation of students,		+		

		employers and other stakeholders in the revision of the EP.				
55	10	All interested parties should be informed of any planned or undertaken actions regarding the EP. All changes made to the EP must be published.			+	
56	11	The management of the EP should ensure the revision of the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social request of society.		+		
Total according to the standard			0	9	1	
Standard " Student-Centered Learning, Teaching and Performance Evaluation "						
57	1	The management of the EP should ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths.		+		
58	2	The management of the EP should ensure the use of various forms and methods of teaching and learning.		+		
59	3	An important factor is the availability of own research in the field of teaching methods of educational disciplines of the EP.		+		
60	4	The management of the EP should demonstrate the existence of a feedback system for the use of various teaching methods and evaluation of learning outcomes.		+		
61	5	The management of the EP should demonstrate support for the autonomy of students with simultaneous guidance and assistance from the teacher.		+		
62	6	The management of the EP must demonstrate the existence of a procedure for responding to complaints from students.		+		
63	7	The university must ensure consistency, transparency and objectivity of the mechanism for evaluating learning outcomes for each EP, including the appeal.		+		
64	8	The university must ensure that the procedures for evaluating the learning outcomes of students of the EP comply with the planned learning outcomes and program goals. Criteria and evaluation methods within the framework of the EP should be published in advance.		+		
65	9	The university should determine the mechanisms for ensuring that each graduate of the EP learns the results of training and ensures the completeness of their formation.		+		
66	10	Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area.			+	
Total according to the standard			0	9	1	
Standard " Students"						
67	1	The university must demonstrate the policy of forming a contingent of students from admission to graduation and ensure transparency of its procedures. The procedures governing the life cycle of students (from		+		

		admission to completion) must be defined, approved, published.				
68	2	The management of the EP should demonstrate the implementation of special adaptation and support programs for newly enrolled and foreign students.		+		
69	3	The university must demonstrate compliance of its actions with the Lisbon Recognition Convention.		+		
70	4	The university should cooperate with other educational organizations and national centers of the "European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers" ENIC/NARIC in order to ensure comparable recognition of qualifications.		+		
71	5	The management of the EP should demonstrate the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and informal training.			+	
72	6	The university should provide an opportunity for external and internal mobility of students of the EP, as well as assist them in obtaining external grants for training.		+		
73	7	The management of the EP should make the maximum amount of effort to provide students with internship places, promote the employment of graduates, and maintain communication with them.		+		
74	8	The university must provide graduates of the EP with documents confirming the qualifications obtained, including the achieved learning outcomes, as well as the context, content and status of the education received and certificates of its completion.		+		
75	9	An important factor is the monitoring of employment and professional activity of graduates of the EP.		+		
76	10	The management of the EP should actively encourage students to self-education and development outside the main program (extracurricular activities).		+		
77	11	An important factor is the presence of an active alumni association/association.			+	
78	12	An important factor is the availability of a support mechanism for gifted students.		+		
Total according to the standard			0	10	2	
Standard " Teaching Staff "						
79	1	The university should have an objective and transparent personnel policy, including hiring, professional growth and staff development, ensuring the professional competence of the entire staff.		+		
80	2	The university must demonstrate the compliance of the personnel potential of the teaching staff with the development strategy of the university and the specifics of the EP.	+			

81	3	The management of the EP must demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.		+		
82	4	The management of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning.		+		
83	5	The university should determine the contribution of the teaching staff of the EP to the implementation of the university's development strategy, and other strategic documents.		+		
84	6	The university should provide opportunities for career growth and professional development of the teaching staff of the EP.		+		
85	7	The management of the EP should involve practitioners of relevant industries in teaching.		+		
86	8	The management of the EP should provide targeted actions for the development of young teachers.	+			
87	9	The university should demonstrate the motivation of the professional and personal development of the teachers of the EP, including the encouragement of both the integration of scientific activity and education, and the use of innovative teaching methods.		+		
88	10	An important factor is the active use of information and communication technologies by teaching staff in the educational process (for example, on-line training, e-portfolio, MOOC, etc.).		+		
89	11	An important factor is the development of academic mobility within the framework of the EP, the involvement of the best foreign and domestic teachers.			+	
90	12	An important factor is the involvement of teaching staff in the educational program in the life of society (the role of teaching staff in the education system, in the development of science, the region, the creation of a cultural environment, participation in exhibitions, creative competitions, charity programs, etc.).		+		
Total according to the standard			2	9	1	
Standard " Education Resources and Student Support Systems"						
91	1.	The management of the EP must demonstrate the sufficiency of material and technical resources and infrastructure.		+		
92	2.	The management of the EP should demonstrate the availability of support procedures for various groups of students, including information and counseling.		+		
		The management of the EP must demonstrate compliance of information resources with the specifics of the EP, including compliance with:				
93	3.	technological support of students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);		+		

94	4.	library resources, including the fund of educational, methodological and scientific literature on general education, basic and profile disciplines on paper and electronic media, periodicals, access to scientific databases;		+		
95	5.	access to educational Internet resources;		+		
96	6.	examination of research results, graduation papers, dissertations on plagiarism;		+		
97	7.	functioning of WI-FI on the territory of the educational organization.		+		
98	8.	The university should strive to ensure that the educational equipment and software used to master the EP are similar to those used in the relevant industries.		+		
99	9.	The university must ensure compliance with safety requirements in the learning process.		+		
100	10	The university should strive to take into account the needs of various groups of students in the context of EP (adults, working, foreign students, as well as students with disabilities).		+		
Total according to the standard			0	10	0	
Standard " Public Information "						
		<i>The information published by the university within the framework of the EP should be accurate, objective, relevant and should include:</i>				
101	1.	implemented programs, indicating the expected learning outcomes;		+		
102	2.	information about the possibility of assigning qualifications at the end of the EP;		+		
103	3.	information about teaching, training, evaluation procedures;		+		
104	4.	information about passing scores and educational opportunities provided to students;		+		
105	5.	information about graduate employment opportunities.			+	
106	6.	The management of the EP should use a variety of ways to disseminate information (including mass media, web resources, information networks, etc.) to inform the general public and interested persons.		+		
107	7.	Public awareness should include support and explanation of the national development programs of the country and the system of higher and postgraduate education.		+		
108	8.	The university must publish audited financial statements on its own web resource.		+		
109	9.	The university must demonstrate the reflection on the web resource of information characterizing the university as a whole and in the context of the EP.		+		
110	10.	An important factor is the availability of adequate and objective information about the staff of the EP, in the context of personalities.			+	
111	11.	An important factor is informing the public about cooperation and interaction with partners within the			+	

		framework of the EP, including scientific/consulting organizations, business partners, social partners and educational organizations.				
112	12.	The university should post information and links to external resources based on the results of external evaluation procedures.		+		
113	13.	An important factor is the participation of the university and the implemented EP in a variety of external evaluation procedures.		+		
Total according to the standard			0	10	3	
Standard " Standards in the context of individual specialties"						
AGRICULTURAL SCIENCES						
		<i>Educational programs in the field of "Agricultural Sciences", for example, such as "Agronomy", must meet the following requirements:</i>				
114	1.	To familiarize students with a professional environment and relevant issues in the field of specialization, as well as to acquire skills on the basis of theoretical training education program must include disciplines and activities aimed at obtaining practical experience and skills in General and special disciplines in particular, including: - tours company in the field of specialization (factories, workshops, research institutes, laboratories, educational-experimental farm, etc.), - conducting individual classes or entire disciplines at the specialization enterprise, - conducting seminars to solve practical problems relevant to enterprises in the field of specialization, etc.		+		
115	2.	The teaching staff involved in the education program should include full-time teachers with long-term experience as a full-time employee at enterprises in the field of specialization of the education program.		+		
116	3.	The content of all disciplines of the EP should be based in one way or another and include a clear relationship with the content of fundamental natural sciences, such as mathematics, chemistry, physics.		+		
117	4.	The management of the EP should provide measures to strengthen practical training in the field of specialization.		+		
118	5.	The management of the EP should provide training of students in the field of application of modern information technologies.			+	
Total according to the standard			0	4	1	
In total			2	98	18	