



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТИҢ  
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 assessment committee  
for compliance with the requirements of the standards of specialized  
accreditation of the educational program

8D08104 - "Phytosanitary technologies"

NCJSC «S.Seifullin Kazakh Agro Technical Research University»

from October 29 to October 31, 2024

**THE INDEPENDENT AGENCY FOR ACCREDITATION AND RATING**  
*External Expert Committee*

*Addressed  
to the Accreditation  
IAAR Council*



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**Astana**

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**(I) LIST OF SYMBOLS AND ABBREVIATIONS**

ECTS	- European Credit Transfer System
IAAR	- «Независимое агентство аккредитации и рейтинга»
QS	- QuacquarelliSymonds
SWOT	- Strengths Weakness Opportunities Threats
AIS	- automated information system
AIC	- agro-industrial complex
SCC	- State Certification Commission
CC RK	- civil code of the republic of Kazakhstan
SCES RK	- State compulsory educational standard of the Republic of Kazakhstan
UNT	- Unified National Testing
FC	- final control
IS	- Information systems
IT	- information Technology
IC	- Individualized curriculum
KATIU	- S. Seifullin Kazakh Agro Technical Research University
CYA	- Committee on Youth Affairs
CT	- Comprehensive testing
CED	- Catalog of elective disciplines
MSHE	- Ministry of Science and Higher Education of the Republic of
RK	Kazakhstan
MA RK	- Ministry of Agriculture of the Republic of Kazakhstan
RI	- Research Institute
RW	- Research work
SRW	- Student research work
NQF	- National Qualifications Framework
BC	- Border control
RMCPDF	- Republican Methodological Center for Phytosanitary Diagnostics and
	Forecasts
WC	- working curriculum
CC	- current control
EMC	- educational and methodological complex
EEMCD	- electronic educational and methodological complex of the discipline

## **(II) INTRODUCTION**

In accordance with the order of the Independent Accreditation and Rating Agency No. 144-24-OD dated 13.09.2024, the visit of an external expert commission (hereinafter - EEC) in NCJSC «S.Seifullin Kazakh Agro Technical Research University» in Astana was held from October 29 to October 31, 2024, according to this order, within the framework of Cluster 5, the Educational Program 8D08104 - "Phytosanitary Technologies" was evaluated for compliance with the requirements of the standards of specialized accreditation of educational programs IAAR.

The report of the external expert commission (EEC) contains an assessment of the compliance of the activities of the S.Seifullin Kazakh Agro Technical Research University within the framework of specialized accreditation with the IAAR criteria, recommendations of the EEC on further improving the parameters of a specialized profile.

### **Composition of the EEC:**

*Chairman of the EEC* - Akybaeva Gulvira Sovetbekovna, Candidate of Economic Sciences, Astana IT University (Astana); *Off-line participation*

*IAAR foreign expert* - Vorontsov Alexander Sergeevich, Candidate of Technical Sciences, Associate Professor, Yanka Kupala State University of Grodno (Grodno, Belarus); *On-line participation*

*IAAR foreign expert* - Vyacheslav Nastasenکو, PhD, Associate Professor, Technical University of Moldova (Chisinau, Moldova); *On-line participation*

*IAAR expert* - Altai Shurumbaevich Alimgazin, Doctor of Technical Sciences, L.N. Gumilyov Eurasian National University (Astana); *Off-line participation*

*IAAR expert* - Markovsky Vadim Pavlovich, candidate of technical sciences, associate professor, Toraighyrov University (Pavlodar); *Off-line participation*

*IAAR expert* - Yermek Tolegenovich Abilmazhinov, Doctor of Technical Sciences, Associate Professor of the Shakarim University (Semey); *Off-line participation*

*IAAR expert* - Zhandos Kadyrkhanovich Kegenbekov, Candidate of Technical Sciences, Associate Professor, Kazakh-German University (Almaty); *Off-line participation*

*IAAR expert* - Sembaev Nurbolat Sakenovich, candidate of technical sciences, associate professor of Toraighyrov University (Pavlodar); *Off-line participation*

*IAAR expert* - Saltanat Zharylkasymovna Ibadullaeva, Doctor of Biological Sciences, Professor, Korkyt-Ata Kyzylorda University (Kyzylorda); *On-line participation*

*IAAR expert* - Akpanbetov Darkhan Berikovich, Candidate of Technical Sciences, Associate Professor, International Engineering and Technology University (Almaty); *Off-line participation*

*IAAR expert, employer* - Abdikadirova Akniet Maratovna, Head of the Department for Human Capital Development in the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" (Shymkent); *On-line participation*

*IAAR expert, employer* - Pilipenko Yuri Alexandrovich, Chairman of the Board of Directors, EXPOBEST International Association of Manufacturers of Goods and Services (Almaty); *On-line participation*

*IAAR expert, student* - Podgorny Grigory Dmitrievich, 3rd year student of the EP 6V07112 Transport, Transport Technology and Technology, Kostanay Engineering and Economics University named after M. Dulatov (Kostanay); *On-line participation*

*IAAR expert, student* - Tastanov Adiet Arkabayuly, 3rd year student of the EP 6V07101 "Electric Power," Almaty University of Energy and Communications named after Gumarbek Daukeev (Almaty); *On-line participation*

*IAAR expert, student* - Pozdnyakov Roman Evgenievich, 3rd year student of EP Transport, Transport Technology and Technology, M. Kozybaev North Kazakhstan University (Petrovavlovsk); *On-line participation*

*IAAR expert, student* - Salmenova Aruzhan Ardakovna, 2nd year master's student of EP 7M01504-Biology, Kokshetau University named after Sh. Ualikhanov (Kokshetau); *On-line participation*

*IAAR expert, student* - Layykova Asima Arturovna, 4th year student of the EP 6B07102 "Automation and Control," NAO "Eurasian National University named after L.N. Gumilyov" (Astana); *On-line participation*

*IAAR expert, student* - Tsimbal Vladimir Sergeevich, 3rd year student of EP 6V07101 Mechanical Engineering, North Kazakhstan University named after M. Kozybaev (Petrovavlovsk); *On-line participation*

*IAAR VEC Coordinator* - Bekenova Dinara Kairbekovna, IAAR Project Manager (Astana).

### **(III) PRESENTATION OF THE EDUCATIONAL ORGANIZATION**

The non-profit joint-stock company "S.Seifullin Kazakh Agro Technical Research University" (hereinafter - KATIU) is the largest university in Central and Northern Kazakhstan in the agricultural sector.

It was founded in 1957 as the Akmola Agricultural Institute. For 65 years of activity, KATIU has trained and graduated more than 79 thousand specialists and bachelors for agriculture and other sectors of the economy.

Currently, the university has 9 faculties and 37 departments. Over 12 thousand students, undergraduates, doctoral students in 52 undergraduate educational programs, 51 graduate educational programs and 33 PhD doctoral educational programs study at 9 faculties of the university. More than 33 percent of educational programs are innovative or dual-degree. In the current academic year 2024-2025, the university has implemented post-doctoral studies.

In the international ranking of QS World University 2025 among 5663 world universities, KATIU entered the top 1200+. This rating confirmed the increased reputation of KATIU among employers. According to the indicator of reputation among employers, the university grew by 130 positions and entered the TOP-800 of the best universities in the world in this indicator.

The QS Asian University Rankings position is 351. Among the best universities in Central Asia, the university ranks 19th.

In 2023, the British rating agency Quacquarelli Symonds was audited for the first time, according to the results of which the university was awarded a general high rating - 4 stars.

The university's position in the QS World Sustainability Rankings is 1051, and KATIU ranks 535th in terms of environmental impact.

For the first time in 2023, the university took part in the UI Green Metric World University Rankings and took 934th place.

According to the results of the General rating of TOP-20 universities of the Republic of Kazakhstan in 2024, conducted annually by the Independent Agency for Accreditation and Rating (IAAR), S. Seifullin Kazakh Agro Technical Research University was included in the top three best universities in the Republic of Kazakhstan.

S. Seifullin Kazakh Agro Technical Research University is a leader in the field of training specialists in the country's agro-industrial complex and seems to be an actively developing higher educational institution with existing traditions, corporate spirit and plans for further successful activities in the field of science, education and social activities based on the mission, vision of the university, as well as in accordance with the Development Program for 2024-2029 approved by the Academic Council of the University (20.01.2024, protocol No. 8).

The mission of KATIU is to become a leader in the quality and accessibility of education, a center for interdisciplinary research and scientific development.



The university is one of the universities providing social support to students. The university practices discounts on education, support for gifted students from low-income and large families, orphans, children with disabilities and special needs.

Currently, the contingent of students is 12847 at the university, Bachelor - 12287, Undergraduates - 369, Doctoral students - 191.

As part of the accredited program, the contingent is 7.

The educational process at the university is accompanied by 785 full-time teachers, including 60 doctors of sciences, 278 candidates of sciences, PhD 107, masters 245, the average age at the university is 49 years.

Within the accredited EP, the proportion of teachers aged 40 to 60 is 46.4%, or 13 people. The proportion of young teachers under the age of 40 is 28.6%, or 8 teachers.

Since January 1, 2023, the journal "Bulletin of Science of the S. Seifullin Kazakh Agro Technical Research University" was transformed by dividing the journal into two series:

- "Bulletin of Science of the S. Seifullin Kazakh Agro Technical Research University: Interdisciplinary";
- "Bulletin of Science of the S. Seifullin Kazakh Agrotechnical Research University: Veterinary Sciences."

The aim of creating a new veterinary science series is to phase the journal into the international Scopus database.

As part of the preparation of PhD doctors at the university in hotel areas, dissertation councils function:

1) Dissertation Council in the direction of preparation of the 8D082 - Animal husbandry: 8D08201 - Animal Science (6D080200 - Technology for the production of animal products);

2) Dissertation Council in the direction of preparation 8D075 "Standardization, certification and metrology (by industry)": 8D07501 - Standardization and product quality management (6D073200-Standardization and certification);

3) Dissertation Council in the direction of preparation of the D091 - "Veterinary Medicine": 8D09101 - "Veterinary Welfare of Animals" (6D120100 - "Veterinary Medicine" )/ 8D09102 - "Sanitary and Epidemiological Welfare of Livestock Products" (6D120200 - "Veterinary Sanitation");

4) Dissertation Council in the direction of preparation of the 8D081 - "Agronomy" and 8D083 - "Forestry": 8D08101 - "Genetics and crop selection" / 8D08102- "Organic agriculture" (6D080100 Agronomy) / 8D08103 - "Scientific foundations of plant nutrition and the use of fertilizers (6D080800 - Soil science and agrochemistry) / 8D08104 - "Phytosanitary technologies" (6D081100 - "Protection plants and quarantine" )/ 8D08301- "Sustainable forest management" (6D080700 Forest resources and forestry);

5) Dissertation Council in the direction of preparation of the 8D073 - "Architecture and Construction": 8D07301 - "Architecture," 8D07302 - "Geodesy," 8D07303 - "Cadastre" and 8D07304 - "Land Management";

6) Dissertation Council in the direction of preparation of the 8D061- "Information and Communication Technologies": 8D06101- "Big Data Analytics"; 8D06103- Business Process Modeling and Optimization; 8D06102- "System Engineering" (6D070300 - Information Systems);

7) Dissertation council in the direction of preparation of the 8D072 "Production and processing industries": 8D07201 - "Food technology," (6D072700- "Food technology," 6D072800 - "Processing technology").

The university creates conditions for the active development of innovative activities. One of the tasks of the university is to assist scientists in the implementation of innovative projects in scientific areas: crop production, agriculture, agrochemistry and soil science, plant protection; microbiology, veterinary medicine and animal husbandry; plant and animal biotechnology; land management, mechanization and electrification of agriculture. Currently, the university database contains more than 40 projects at different stages of research.

In order to increase the effectiveness of scientific research, research institutes, platforms, centers have been created at the university.

#### **(IV) DESCRIPTION OF THE VISIT EXTERNAL EXPERT COMMITTEE**

The work of the EEC was carried out on the basis of the Visit Program using a hybrid model of the expert commission on specialized accreditation of educational programs of the S. Seifullin Kazakh Agrotechnical Research University from October 29 to October 31, 2024.

In order to coordinate the work of the EEC, an online kick-off meeting was held in 24.10.2024, during which powers were distributed among the members of the commission, the visit schedule was clarified, and a list of documents for a request to the university was agreed.

In accordance with the requirements of the standards, the program of the visit covered meetings with the Chairman of the Board-Rector of NcJSC "KATIU," vice-rectors, heads of structural divisions, graduates and employers, interviewing and questioning of teaching staff and students. Information on the various focus groups is presented in Table 1.

During the visual inspection of the university and accredited Educational programs, members of the EEC got acquainted with the state of the material and technical base of the university, visited the library, departments, structural divisions, laboratories, specialized rooms, computer classes, training laboratories, practice bases.

Meetings with focus groups, as well as the analysis of documents allowed the members of the EEC to conduct an independent assessment of the compliance of the data set out in the self-assessment reports of the university's EP with the criteria for specialized accreditation standards.

Table 1. Information about employees and students who took part in meetings with EEC NAAR:

<b>Category of participants</b>	<b>Quantity</b>
Chairman of the Management Board-Rector	1
Vice-rectors, head of the rector's office	6
Heads of structural divisions	20
Deans	4
Heads of departments and heads of educational programs	6
Teachers	46
Students, undergraduates, doctoral student	61
Graduates	36
Employers	34
<b>Total</b>	<b>214</b>

In accordance with the accreditation procedure, 56 teachers and 66 students were surveyed.

In order to confirm the information presented in the Self-Assessment Report, external experts requested and analyzed the university's working documentation. Along with this, experts studied the Internet positioning of the university through the official website of the university (<https://kazatu.edu.kz/>).

As part of the planned program, recommendations for improving the University's activities, developed by the EEC based on the results of the examination, were presented at a meeting with the management in 31.10.2024.

During the visit of the EEC, experts visited the databases of practices according to the accredited program.

As part of the program, classes were scheduled.

The events planned during the visit of the EEC IAAR contributed to the detailed acquaintance of experts with the educational infrastructure of the university, material and technical

resources, faculty and staff, students, undergraduates, doctoral students, representatives of employers, graduates. These meetings allowed the members of the EEC to conduct an independent assessment of the compliance of the data set out in the self-assessment of the university's educational program with the criteria of specialized accreditation standards.

## **(V) DESCRIPTION OF PREVIOUS ACCREDITATION PROCEDURE**

Based on the results of the previous accreditation, all recommendations of the EEC were taken into account and relevant measures were implemented. An independent accreditation and rating agency carried out specialized accreditation from November 12 to 14, 2019. An external expert commission has formed 45 recommendations on specialized accreditation standards. Based on the results of the work of the independent external expert commission EP 8D08104 - Phytosanitary Technologies (Primary Accreditation), it was accredited for a period of 5 years with the issuance of certificates of specialized accreditation.

## **(VI) COMPLIANCE WITH SPECIALISED ACCREDITATION STANDARDS**

### **6.1. Standard "Educational Program Management"**

- *The university must demonstrate the development of the goal and strategy for the development of the educational program based on the analysis of external and internal factors with the wide involvement of a variety of stakeholders.*

- *Quality assurance policies should reflect the link between research, teaching and learning.*

- *The university demonstrates the development of a culture of quality assurance.*

- *Commitment to quality should apply to any activities performed by contractors and partners (outsourcing), including the implementation of joint/dual education and academic mobility.*

- *The management of the educational program ensures transparency in the development of a plan for the development of the educational program based on an analysis of its functioning, the real positioning of the university and the focus of its activities on meeting the needs of the state, employers, stakeholders and students.*

- *The management of the educational program demonstrates the functioning of the mechanisms for the formation and regular revision of the plan for the development of the educational program and monitoring its implementation, assessing the achievement of training goals, compliance with the needs of students, employers and society, making decisions aimed at constant improvement of the educational program.*

- *The management of the educational program should involve representatives of groups of stakeholders, including employers, students and teaching staff, in the formation of a plan for the development of the educational program.*

- *The management of the educational program should demonstrate the individuality and uniqueness of the plan for the development of the educational program, its consistency with national development priorities and the strategy for the development of the organization of education.*

- *The university must demonstrate a clear definition of those responsible for business processes within the framework of the educational program, the distribution of staff duties, and the delimitation of the functions of collegial bodies.*

- *The management of the educational program ensures the coordination of the activities of all persons participating in the development and management of the educational program, and its continuous implementation, and also involves all interested parties in this process.*



- *The management of the educational program should ensure the transparency of the management system, the functioning of the internal quality assurance system, including its design, management and monitoring, and the adoption of appropriate decisions.*
- *The management of the educational program should carry out risk management.*
- *The management of the educational program should ensure the participation of representatives of interested parties (employers, teaching staff, students) in the collegial governing bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.*
- *The university must demonstrate innovation management within the educational program, including the analysis and implementation of innovative proposals.*
- *The management of the educational program should demonstrate its openness and accessibility for faculty students, employers and other stakeholders.*
- *The management of the educational program confirms the completion of training in education management programs.*
- *The management of the educational program should strive to ensure that progress made since the last external quality assurance procedure is taken into account in preparing for the next procedure.*

### ***Evidence part***

The management of educational programs is carried out within the framework of the internal quality assurance system, which includes the Quality Assurance Policy and the description of processes in a series of internal documents of the University developed within the framework of a certified quality management system.

The EEC confirms that the management of educational programs is carried out in the context of the S. Seifullin Kazakh Agro Technical Research University Development Program for 2024-2029, which contains the mission, vision and strategic goals of the university (approved by the decision of the KATU Academic Council in 25.01.2024, protocol No. 8). For the authorized representative office of S. Seifullin KATIU on the Internet there is an official website ([kazatu.edu.kz](http://kazatu.edu.kz)), an educational portal ([portal.kazatu.kz](http://portal.kazatu.kz)).

The availability and openness of the quality policy in NCJSC "KATIU" Teaching staffs, employees, students, as well as all interested parties are confirmed by the publication on the university website and on the stands of the university, placement on the electronic resources of the university.

The Development Program states that the university's activities are aimed at achieving international recognition of the university in the field of providing educational services, its research reputation, improving the quality of training of competitive specialists and ensuring the economic stability of the university, scientific and educational and methodological support of the educational process, improving the material and technical, social and household and information infrastructure of the university, improving the mechanisms and tools for managing a higher educational institution.

The mission of the university is to generate, implement, disseminate and apply advanced knowledge to improve the quality of life, increase labor productivity and competitiveness of the agro-industrial complex and other sectors of the economy of Kazakhstan.

To implement the Development Program, management has identified the main strategic goals until 2025 inclusive:

- employment in the specialty within three months after completion of training, confirmed by independent sources - at least 60% of graduates;
- the average citation index of one publication according to the Web of Science database is at least 2;

- share in the total income of income (1) from scientific activity - at least 30%, (2) from the introduction of scientific results - at least 12.5%;
- international accreditation of at least 50% of educational curricula.

The mission of the university, vision and strategy are aimed at meeting the needs of the state, society, science and economy, potential employers, students, and are coordinated with the national programs for the development of education and science of the Republic of Kazakhstan. When developing the mission, strategic goals and objectives, real material and financial capabilities, the personnel potential of the university are taken into account.

Experts confirm that the University Development Program, vision, mission, strategy are published, available and posted on the university website.

The internal documents of the University are drawn up within the framework of the quality management system developed on the basis of the requirements of the ISO 9001:2015 standard in relation to activities in the field of education.

The quality assurance policy is reflected in the documents "Organization Standards," "Documented Procedure," "Methodological Instructions aimed at developing a quality culture through the main quality assurance procedures. To support the main business processes at the university, a set of internal regulatory documentation has been developed that regulates the implementation of educational programs (SO QMS "Planning and Evaluation of University Activities," "Regulation on the Procedure for Developing a Plan for the Development of an Educational Program and Monitoring its Implementation," "Code of Academic Honor of Participants in Educational Activities," "Procedure for Organizing Scientific Activities at NCJSC" S. Seifullin KATIU, "" Management of the Educational Process, "etc ).

In connection with the changes in regulatory legal acts in the Republic of Kazakhstan, the university is working on the phased introduction of new legislative norms into the educational activities of the University, and a number of internal provisions are being updated.

The university has successfully reissued licenses for areas of activity and is developing an OP for the new academic year in accordance with the new requirements. Currently, a list of educational programs has been determined and work has been completed on their inclusion in the national register through the ESUVO system.

To manage the educational program in the context of the further development of the culture of quality assurance, there are documents regulating the main processes: educational, methodological, scientific, educational, which ensure the quality and high performance of the team.

All priority areas of the University Development Program and the Educational Program Development Plan through key performance indicators and individual faculty plans are reflected at all levels of the educational program management. Thus, everyone's contribution to the implementation of the educational program is determined through personal indicators that are approved at meetings of departments.

Paper and electronic versions of program, planning and internal regulatory documents are available at the departments, available for teaching staff, employees and students, as well as employers and other interested parties. Copies of documents are recorded in the logbook.

Strategic planning issues, medium-term and short-term goals and objectives of the university and structural divisions are reflected in the annual and monthly work plans of the university and structural divisions. Indicators and achievements of current activities are analyzed at meetings of the department, the Faculty Council, the Educational and Methodological Council of the university, the administration, the Academic Council at least once a month. Students are active participants in the educational process, student self-government operates at the university, according to the results of sociological surveys of students, corrective actions are taken to improve the quality of the educational program.

The quality assurance system in force at the university regulates the way the educational program is developed and implemented, according to which the educational program is developed

annually for each set of students by academic committees to develop an educational program with the participation of teachers, employers and students. The analysis of the educational program is carried out by the Committee for the Evaluation of the Educational Program, which includes the Vice-Rector for Academic Affairs, the Chairman of the Educational and Methodological Council of the University, employers and students. Employers are included in the management of EP through participation in the activities of Academic Committees, a collegial body that determines the development of the educational program.

The quality assurance system in force at the university regulates the method of development and implementation of the EP, according to which the EP is developed annually for each set of students by academic committees for the development of the EP with the participation of teachers, employers and students. The EP is analyzed by the EP Evaluation Committee, which includes the vice-rector for academic issues, the chairman of the university's academic and methodological council, employers and students. Employers are included in the issues of EP management through participation in the activities of the Academic Committees - a collegial body that determines the development of the EP.

One of the important moments of the educational process is the development of SOP. In the PAM report, the university provides full implementation of the recommendation on this point. However, the activities on this recommendation of the previous accreditation are still at the implementation stage.

The structure of the educational program development plan contains: analysis of the current state (information on the contingent of students by levels of study, analysis of human resources, material and technical base, state of research work); main goals, objectives of educational program development, measures to reduce the impact of risks for educational programs, planned indicators, mechanism for implementing the educational program development plan, graduate model by levels of study.

The university carries out activities to monitor the implementation of work plans of structural divisions, and to monitor the quality of students' knowledge (current, final control, midterm and final certification).

At meetings with students, teaching staff, and employers, the members of the EEC were convinced of the openness and accessibility of the program management in resolving various issues related to the development and implementation of the program.

The uniqueness and individuality of the EP "Phytosanitary Technologies" lies in its multidisciplinary, combining natural sciences, socio-political, economic, biological, technical and agronomic sciences, aimed at training specialists of a new format in the field of phytosanitary science, competitive and in demand in the agro-industrial complex of the country. Also, the uniqueness of the EP is in the formation of students' knowledge and skills in matters of phytosanitary technologies using elements of digitalization, development of measures related to the use of pesticides in the system of traditional and precision farming, development of biological methods of pest control in organic farming, compilation of electronic maps of the spread of pests and diseases using GIS technologies, quarantine and phytosanitary control in the agro-industrial complex and others. During the preparation and adjustment of the EP "Phytosanitary Technologies" at the working meetings of the department took part: General Director of the RSE "Phytosanitary" Eltai Khamidzhanuly, Chief Agronomist of TOO "Astana Zelenstroy" Shaimukhamedov B.T., Head of the Laboratory of "Plant Protection" of the Scientific and Practical Center of Agriculture named after A. Barayev - Kacharov A.S., Head of the Laboratory of Biological Plant Protection of the Research Institute of Plant Protection named after Zhiembaev Mukhamadiev N.S.

The necessary information, personnel, financial and material resources, as well as regulatory and legal documentation, ensuring the implementation of educational programs are available for the management of the educational program.

#### **Analytical part**



The analysis of the fundamental documents showed that KATIUS. Seifullin demonstrates the management of educational programs in accordance with the current legislation of the Republic of Kazakhstan in the field of education and science, the focus of the mission, strategy and vision on meeting the needs of the state, society, sectors of the real economy, potential stakeholders.

The EEC notes that stakeholders (students, teachers and employers) are aware of the existence of the University Development Program, Quality Policy and Goals, and internal regulatory documents. The EP management has demonstrated the operability of the internal quality management system. The transparency of the processes of forming the EP development plan is confirmed by the participation of stakeholders in it. This is evidenced by the activities of the Academic Council, the Rector's Office, the Academic and Methodological Council, and the academic committees that ensure the management of the main EPs. The development plans of the accredited EP are consistent with the University Development Program. The leader of the educational program, with the involvement of the teaching staff, is responsible for monitoring the Development Plan of the educational program in order to ensure continuous and ongoing improvement.

The EEC confirms that the university has a published quality assurance policy that reflects the relationship between research, teaching and learning.

During the visual inspection and analysis of documents, the EEC was convinced that the university regulates the implementation of the EP, distributes the job responsibilities of the personnel, and delineates the functions of the collegial bodies. The university demonstrates the development of a quality assurance culture in the context of the EP. The quality of the educational process includes not only the quality of educational programs and technologies, the quality of the human resources involved in the educational process, the quality of the material and technical base, etc., but also the quality of the scientific potential of the university, the quality of new knowledge transmitted by teachers.

Reports on the implementation of development plans of the EP are included in the annual reports of the departments, considered at department meetings, as well as at meetings of the Academic Council of the University. The results of the assessment of the effectiveness of the implementation of the stages of development of the EP are used to adjust and further develop these EPs based on internal documents (DP QMS "Corrective actions" and "Preventive actions"). The university has an approved procedure for managing the EP Development Plan - "Regulations on the procedure for developing a development plan for an educational program and monitoring its implementation."

The management of the EP ensures the participation of employers' representatives in the processes of managing the educational program and its development, which was revealed as a result of interviews with teachers and employers. The presence of student self-government implies increased activity of students within the framework of their participation in the collegial management bodies of the EP. Head of the Department of Biology, Plant Protection and Quarantine A.K. Sibatayev completed a course in 2023 on the program "Integrating quality assurance standards and principles from the European Standards and Guidelines for Quality Assurance (ESG) into the operational activities of a University" at the non-profit institution "Independent Kazakhstan Accreditation Center (certificate No. 95), and in 2024 completed training in the program "Bilim Berudeghi Management" (72 hours, certificate No. 44/03-2024).

The EEC notes the need to analyze the functions of University employees involved in the management of educational programs in order to clarify their responsibilities in connection with changes made to regulatory legal acts in the field of education and new approaches to determining the qualification characteristics of teaching staff positions.

EEC notes the presence of document "Regulations on the procedure for determining and managing risks in NCJSC "Kazakh Agro Technical Research University named after S. Seifullin". Analysis of the submitted documents (minutes of department meetings, the University Academic Council, reports, plans, etc.) confirm the implementation of the planned types of risk management

work. However, the VEC emphasizes the need to update risks in connection with changes in legislation and the ongoing reengineering of business processes.

During the visit of the IAAR EEC, the EP management did not provide information on the prospective development of the EP through the possibilities of joint programs, as well as academic exchange programs. This issue was not discussed within the framework of meetings of the collegial management bodies, as well as when determining the criteria for the effectiveness of the EP.

According to the results of the survey, 90.9% (60 people) are “completely satisfied” with the level of accessibility and responsiveness of the university administration, 9.1% (6 people) are “partially satisfied” and 0% are “partially dissatisfied”, 0% are “dissatisfied”; 0% of students “found it difficult to answer”.

Teachers rate their participation in the processes of making management and strategic decisions quite highly. According to the survey results, 19.6% (11 people) of the faculty gave the rating “very good”, and 69.6% (39 people) gave it “good”. This fact allows us to offer the university the opportunity to consider and use new forms of encouraging the successes and achievements of the faculty in management practice. Such forms may include letters of gratitude, Certificates of the Academic Council of the University, competitions for personal achievements of the faculty, leading scientists conducting public popular science lectures for teachers and students of the university with possible online broadcasting for other pedagogical universities or partner universities.

***Strengths/Best Practices of the EP 8D08104-Phytosanitary Technologies»:-***not identified

**Recommendations of the EEC EP 8D08104- "Phytosanitary technologies»:**

- The management of the educational institution shall develop criteria within the framework of quality assurance in the implementation of joint/dual-degree education and academic mobility by April 1, 2025.

**Conclusions of the EEK on the criteria for the EP 8D08104- "Phytosanitary technologies": strong - 0, satisfactory – 16, requires improvement – 1.**

***6.2. Standard "Information Management and Reporting"***

- *The university must ensure the functioning of a system for collecting, analyzing and managing information based on modern information and communication technologies and software.*
- *The OP's management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system.*
- *The management of the EP demonstrates the existence of a reporting system that reflects the activities of all structural divisions and departments within the EP, including an assessment of their performance.*
- *The university must determine the frequency, forms and methods of assessing the management of the educational institution, the activities of collegial bodies and structural divisions, and senior management.*
- *The university must demonstrate a mechanism for ensuring the protection of information, including the identification of persons responsible for the accuracy and timeliness of information analysis and the provision of data.*
- *The university demonstrates the involvement of students, employees and faculty in the processes of collecting and analyzing information, as well as making decisions based on it.*
- *The leadership of the educational institution must demonstrate the existence of mechanisms for communication with students, employees and other stakeholders, including conflict resolution.*
- *The university must ensure that the degree of satisfaction of the needs of the teaching staff, personnel and students within the framework of the EP is measured and demonstrate evidence of the elimination of the identified deficiencies.*



- *The university must evaluate the effectiveness and efficiency of its activities, including in the context of the educational program.*

*The information collected and analyzed by the university within the framework of the EP must take into account:*

- *key performance indicators;*
- *dynamics of the student contingent in terms of forms and types;*
- *academic performance, student achievement and dropout;*
- *satisfaction of students with the implementation of the educational program and the quality of education at the university;*
- *availability of educational resources and support systems for learners;*
- *employment and career growth of graduates.*
- *Students, staff and teaching staff must provide documented consent to the processing of personal data.*
- *The management of the EP should facilitate the provision of all necessary information in the relevant fields of science.*

### **Evidential part**

In S. Seifullin KATIU, the management of the main processes is carried out on the basis of decisions of the Academic Council of the University, the rector's office, orders of the rector and orders of the vice-rectors. The system of collection, analysis and management of information in the university is used to ensure the quality of the implementation of the EP and is confirmed in internal regulatory documents. This system includes information flows using modern computer technologies and software.

The university has implemented information management processes using an educational portal (<http://portal.kazatu.kz/>) AIS "Business Trips", AIS "Electronic Journal of the Curator", AIS "Personnel", AIS "Timesheet", AIS "Risk Management", systems "PLATONUS". In the educational portal of S. Seifullin KATIU, documents are freely available; personalized access to information on the management, planning and implementation of the EP (curricula, teaching materials, class schedules, student assessment results, etc.) is carried out. Operational management of information exchange between departments is carried out through the electronic document management system.

The support of the EP with information technologies (including the functioning of the system of collection, analysis and management of information based on the use of modern information and communication technologies and software) is carried out by the Council on Informatization. The Council on Informatization of KATIU is a permanent coordinating and advisory and scientific-consultative body of the Academic Council of the University in the field of solving problems on the use and development of information technologies.

The website provides information on the main areas of the university's activities - management of educational, scientific and educational processes, information on structural divisions, the rector's blog, and the university has a representative office in social networks (Facebook, Instagram, V Kontakte, Moi Mir, Odnoklassniki). The university's website operates in three languages.

Constant work is underway to fill the educational portal of KATIU with information. To ensure high-quality content, information filling and timely updating of all sections of the portal, information for the portal is accepted in documented form.

The University ensures the protection of information in accordance with the Regulation "On the Information Security Policy at S. Seifullin KATIU", which defines the procedure for ensuring the protection of information and persons responsible for the accuracy and timeliness of information analysis and data provision, as well as the methodological instructions of the MI "On Password Protection", MI "On Backup Copying of Information of NCJSC "S. Seifullin KATIU", MI "On the Organization of Anti-Virus Protection of NCJSC "S. Seifullin KATIU". At the University, ensuring information security includes any activity aimed at protecting information

and the supporting infrastructure. In accordance with the Regulation on Information Security, the Digital Development Department is responsible for the means and measures of information protection. Starting from the 2023 academic year, students and employees give consent to the processing of personal data when filling out an agreement for the provision of educational services. The information security policy covers all automated and telecommunication systems owned and used by S. Seifullin KATIU. Along with the work being carried out, the university needs to strengthen its work on preserving commercial and official secrets, and other documents that ensure the protection of information.

All IS developed at the university by the employees of the DIT are the property of the university. Copying and transfer to third parties is strictly prohibited. The source codes and structure of the Database must be stored on the server for backup. The head of the software development and maintenance department is responsible for the safety and relevance of the source codes and the Database. The DIT monitors and analyzes the network infrastructure of KATIU, identifies violations of the rules for using network equipment and a local network. If a violation of the rules for using a local area network is detected and when using the AIS for non-production purposes, the DIT initiates disciplinary action against the violator. Every year at the beginning of the academic year, the director of the DIT holds a seminar on information security at the level of department heads.

The processes of information management and regulation and control over implementation are carried out by the rector's office, departments, divisions, and heads of divisions. Recording of incoming and outgoing information is carried out in journals. Responsible for their implementation and reliability are the heads of divisions, those responsible for the department in the areas of activity - educational and methodological work, research work, employment, educational work, career guidance work, as well as advisers, curators, and leading teachers.

The degree of satisfaction of the needs of the teaching staff, personnel and students within the EP is carried out by means of surveys and questionnaires. In particular, students participate in the survey "Teacher - through the eyes of students", at the end of the academic year - "Quality of knowledge", students evaluate the teaching staff on a 5-point scale. A summary table of the survey results, for analysis and decision-making, is sent to the EP management via the electronic document management system.

Students have access to information about their academic achievements, academic calendar, class schedule, examination sessions, consultations, etc.

Teachers fill in the students' academic achievement logs via their personal account, form cases on disciplines intended for distance learning technologies, and check written work. The mechanism of communication with students, faculty, staff, and employers is carried out through the educational process, advisory and curatorial hours, information stands, the PLATONUS system, the university website, the university's educational portal, the Facebook social network, the media, the My University newspaper, graduate vacancies, etc.

The University ensures that information is available to all interested parties. Stakeholders can familiarize themselves with the University's quality assurance mechanisms on the University's website [www.kazatu.kz](http://www.kazatu.kz) via the link <https://kazatu.edu.kz/pages/universitet/dokumenty/sistema-menedzmenta-kacestva>.

In accordance with the provisions of the Labor Code of the Republic of Kazakhstan and the Code of Academic Integrity of Participants in the Educational Process, the university has a commission for the consideration of individual labor disputes and resolution of conflict situations, in accordance with the regulations on the conciliation commission at JSC "S. Seifullin Kazakh Agro Technical Research University".

Key performance indicators (KPI) are calculated in accordance with the established form, the procedure for formation is defined in the internal document "Regulations on the system of material incentives for faculty, departments and faculties by nominations".

The library management information system provides access to the electronic catalogue and virtual reference service via the university website page.

The university's electronic library provides access to remote information resources, leading electronic libraries of the world, such as Web of Science, Scopus, EBSCO, Cabi Abstract, AGRIS, as well as Russian databases Publishing House "Lan", Electronic Library System "University Library Online", "eLibrary.ru" and others, using the university's IP address range.

Access to the information and legal system of regulatory legal acts of the Republic of Kazakhstan is provided through the IPS "Adilet".

The electronic catalogue reflects the entire library collection. The electronic catalogue is presented at all library service points and the catalogue room.

The reporting system includes annual reports of structural divisions, reports on research and development, financial reports, and reports of teachers.

According to the legislation of the Republic of Kazakhstan, KATIU employees and students provided their consent to the processing of personal data, which was confirmed during conversations with the teaching staff and students and analysis of documents. The procedure for processing personal data is described in the regulation on the protection of personal data in NCJSC "S. Seifullin KATIU".

The control over the effectiveness of the quality assurance system developed and implemented at the university is carried out on the basis of: the quality management system; the university's transition to a comprehensive assessment of activities that combines licensing, certification and state accreditation procedures based on the approved list of indicators of the activities of universities, including, in particular, indicators of the presence and effectiveness of intra-university education quality management systems; internationalization of education, etc. Control is implemented through internal audits, examination of methodological support, assessment of activities and consideration of issues at collegial bodies. Within the framework of these mechanisms, the effectiveness and efficiency of achieving goals, deviations from the set goals are determined. If necessary, decisions are made or plans are developed to improve the quality of education and improve educational activities. It should be noted that information on key performance indicators is not disclosed in the description of the standard criteria. In this regard, a clear understanding of the process itself is necessary within the framework of the accredited educational program.

#### **Analytical part**

Analyzing compliance with the requirements of the standard "Information Management and Reporting" for the accredited educational program, the commission notes that the university has a multi-level information management and reporting system. Particular attention is paid to internal audit and systematic review of the effectiveness of decisions taken and monitoring the activities of departments and programs at meetings of the Academic Council.

The EEC notes that the internal regulatory documentation developed at the university (organization standards, documented procedures, methodological instructions) determines the structure and volume of information collected, its reliability and timeliness, allows for the formation of analytical reports and decision-making based on facts. However, during the VEC visit and analysis of documents, the commission members did not see any confirmation that key performance indicators are not used in the collection of information and management of information flows. In most cases, reports are generated and information is collected according to the work plans of collegial management bodies, but at the same time, employees were unable to indicate the basic criteria and indicators characterizing the effectiveness of business processes during meetings with focus groups.

The University has developed a regulation on the official information website of S. Seifullin KATIU (POIS QMS 09.9011-2019). S. Seifullin KATIU has a system of comprehensive automation of business processes of the University - the Educational Portal. This portal provides centralized information management, it provides information on distance learning, advanced



training, e-learning center, multilingual education, etc. The Information Systems section provides organization of the University's work: IS "State Procurement", IS "Accounting of Fixed Assets", IS "Warehouse", IS "Timesheet", IS "Business Trips", IS "Personnel", IS "University Indicators Monitoring Program", etc. (<http://portal.kazatu.kz/>).

For the accredited educational program 8D08104-"Phytosanitary technologies" the educational portal provides information about the educational program, teaching staff, their achievements, department activities, active clubs, research and development, and international activities.

According to the survey results, students were almost completely satisfied with the information about the requirements for successfully completing a given educational program (specialty) and about the courses, educational programs and the academic degree received - "completely satisfied" - 90.9%(60 people), "partially satisfied" - 7.6% (5 people), "partially dissatisfied" - 0%, and "dissatisfied" - 1.5% (1 person). According to the results of the survey on the content and informational fullness of the website of the educational organization in general and faculties in particular - "very satisfied" - 86.4% (57 people); "partially satisfied" - 7.6% (5 people), "partially dissatisfied" - 4.5% (3 people), and "dissatisfied" - 1.5%, "don't know" - 0.8%. "Very satisfied" - 90.9% (60 people) with information support and explanation of the admission rules and strategy of the educational program (specialty) before entering the university; "partially satisfied" - 6.1% (4 people). relations with the dean's office (school, faculty, department) - "very satisfied" - 93.9% (62 people); "partially satisfied" - 4.5% (3 people); accessibility and responsiveness of the university administration - 90.9% (60 people), informing students about courses, educational programs and the academic degree received - "very satisfied" - 90.9% (60 people), "partially satisfied" - 7.6% (5 people); availability of academic counseling "very satisfied" - 92.4% (61 people); "partially satisfied" - 6.1% (4 people); availability of counseling on personal problems "very satisfied" - 89.4% (59 people); "partially satisfied" - 9.1% (6 people)..

**Strengths/Best Practices of the EP 8D0810- "Phytosanitary technologies":** not identified

**VEK recommendations for the EP 8D08104- "Phytosanitary technologies":**

- The university management, taking into account the features and specifics of the educational program, shall determine key indicators of efficiency and effectiveness, establish and document the procedure for their collection, analysis and application. Deadline: 30.09.2025

**Conclusions of the EEK on the criteria for the EP 8D08104- "Phytosanitary technologies":** strong - 0, satisfactory – 16, requires improvement – 1.

### 6.3. Standard "Development and approval of the educational program"

- *The university must demonstrate the existence of a documented procedure for developing the EP and its approval at the institutional level.*
- *The university must demonstrate the compliance of the developed educational program with the established goals and planned learning outcomes.*
- *The leadership of the educational institution must determine the influence of disciplines and professional practices on the formation of learning outcomes.*
- *The university can demonstrate the presence of a model of a graduate of the educational program, describing the learning outcomes and personal qualities.*
- *The qualification awarded upon completion of the EP must be clearly defined, explained and correspond to a specific level of the NQF, QF-EHEA.*
- *The OP management should demonstrate the modular structure of the program, based on the European Credit Transfer and Accumulation System (ECTS), to ensure that the educational program and its modules (in terms of content and structure) comply with the set goals with a focus on achieving the*

*planned learning outcomes.*

- *The management of the educational institution must ensure that the content of academic disciplines and learning outcomes correspond to each other and to the level of education (bachelor's, master's, doctoral).*
- *The management of the EP must demonstrate that external examinations of the EP have been carried out.*
- *The management of the educational program must provide evidence of the participation of students, faculty and other stakeholders in the development of the educational program and ensuring its quality.*
- *The management of the educational institution must demonstrate the educational institution's positioning in the educational market (regional/national/international) and its uniqueness.*
- *An important factor is the ability to prepare students for professional certification.*
- *An important factor is the presence of double-degree programs and/or joint programs with foreign universities.*

### **Evidential part**

The development and approval of educational programs at the university is carried out in accordance with the provisions of regulatory legal acts in the field of higher and postgraduate education, as well as documentation developed by the university to ensure the implementation of the University Development Program.

The procedure for developing educational and methodological materials, which include MOP, RUP, KED, UMKD, methodological recommendations for various types of activities, is presented in the organization's standards and methodological instructions. The accredited educational program is developed according to the order on approval of the composition of working groups for development of educational programs and experts. The composition of working groups for development of educational programs includes the head of the department and 2-3 leading teachers of the department, experts from employers, students, master's students and doctoral students.

The quality assessment of educational programs is carried out on the basis of an analysis of curricula, a catalog of elective disciplines, schedules, individual plans for students, and internal regulatory documents governing the implementation of educational programs. The EP is a set of documents developed and approved by the university in the area of training in the field of higher and postgraduate education, which includes:

- 1) The educational program includes general characteristics (mission, goal, educational program profile, learning outcomes, graduate profile), educational program content, educational program resource availability, and a long-term educational program development plan;
- 2) educational documentation: curriculum (CP), working curriculum (WCP), academic calendar and schedule of the educational process;
- 3) methodological support of the educational program: a catalog of elective disciplines, a Minor catalog, syllabuses of disciplines, practical training programs and methodological guidelines for their completion, a program of state final certification and methodological recommendations for it.

EPs undergo external examination in the register of the national educational database (NEDB), where the EP is sent to an independent expert to analyze the quality of the EP and for its implementation.

At the stage of designing the educational program, the department develops a graduate model reflecting the learning outcomes and acquired competencies that graduates should have upon completion of their studies. The basis for developing a graduate model is: competencies, goals, principles of training specialists; opinions of representatives of production and employers; requirements of the state and region.

The University independently develops and approves the training program for doctoral students. Based on the State Educational Standard in accordance with the National Qualification



Framework, professional standards and agreed with the Dublin Descriptors and the European Qualification Framework. To develop innovative EPs, by order of the Chairman of the Board, a team of authors is created at the university. The process of developing educational programs is strictly regulated and consists of the following technological chain: special department - academic council of the faculty - academic committee of the university - UMS KATIU - Academic Council of KATIU. Educational programs, including development, content, changes and additions to it, are agreed with the DAV and QMS of the university.

Educational program "Phytosanitary technologies" is implemented at the department "Biology, protection and quarantine of plants, which is a structural subdivision of the Faculty of Agronomy.

The curricula provide for modular study of disciplines in compliance with the logical sequence of study of disciplines and contain a full list of academic disciplines for both compulsory and elective components. The workload of disciplines of cycles in Kazakhstan and ECTS credits, as well as in hours, all types of professional practice, and midterm assessment are indicated. All forms of curricula use a single system of coding disciplines, providing for the assignment of a corresponding code in symbols of letter and digital expression to each discipline of the curriculum.

The EP is annually revised and improved, undergoes the procedure of external and internal examination, which ensures the quality of educational services. When forming the content of the EP, proposals of employers are taken into account. Thus, at the suggestions of employers of Astana Zelenstroy LLC, such subjects as "Protection of ornamental crops" were introduced into the RUP. In recent years, a number of changes have been made to the EP: adjustments to the discipline "Digital technologies in plant protection", an alternative discipline has been introduced according to the proposal of employers "Biotechnological methods in plant protection and quarantine". This allows graduates of the department to use modern digital technologies, as well as biotechnological methods in plant protection and quarantine. All proposals of employers are considered at a meeting of departments, the methodological bureau of the agronomic faculty and the scientific and methodological council of the university, where a decision is made to make changes both to the EP and to the working curricula.

The university pays special attention to involving employers in the development of the educational program. Before approving the educational programs, it receives an assessment from employers. In the course of developing the educational program, the opinion of interested parties - potential employers - is taken into account, with whom the educational program is agreed upon and signed. For each educational program, catalogs of elective disciplines have been developed, providing students with an alternative choice of elective academic disciplines to form an individual educational trajectory. To conduct an external examination for the reporting period on the educational program "Phytosanitary Technologies", employers were involved in accordance with the availability of higher and postgraduate education; work experience in the relevant field for at least 10-15 years; knowledge of agricultural production, plant protection and quarantine, agronomy and related industries; interest in the implementation of modern technologies and innovations. For example, the examination was carried out by representatives of a number of organizations such as the RGU "RMTCFDIP" and its regional and district branches, the State Institution "Republican Center for Plant Quarantine", JSC "Zelenstroy", TOO "Kazakh Research Institute of Plant Protection and Quarantine", TOO "NPC of Grain Farming named after N.I. Barayev, TOO "Alem Agro", TOO "Baiserke Agro", RSE "Fitosanitary", TOO "Shakhtyorskoye", TOO "Kamenka"; JSC "Astana - Zelenstroy", scientific institutions and other agricultural formations of various forms of ownership. During the past period, an additional examination of the OP was carried out by leading employers: General Director of RSE "Fitosanitary" Eltai Khamidzhanuly; Director of the Astana Botanical Garden Medeuov M.R. The examination noted the scientific nature and practical orientation of the OP.

According to the requirements of postgraduate education, the consultants of doctoral dissertations are scientists from leading universities in neighboring and distant countries. For

example, Vologin Semyon Germanovich, PhD in Biology, leading researcher at the laboratory of potato selection and biotechnology at the Tatar Research Institute of Agriculture, Kazan Scientific Center of the Russian Academy of Sciences; Professor Nuriddin Tahsin, Plovdiv Agricultural University, Bulgaria; Pobozhnyak M., PhD, Hugo Kołłątaj Agricultural University of Krakow, Krakow, Poland; Afonin A.N., PhD in Agriculture, Associate Professor, Institute of Earth Sciences, St. Petersburg State University, etc.

One of the forms of joint cooperation with employers in the development, management and implementation of educational programs is the holding of lectures and practical classes by leading scientists and specialists – representatives of research institutes, national research institutes, joint-stock companies, limited liability companies, and agricultural firms in accordance with an annual schedule of classes.

Internships in accredited educational programs are conducted in accordance with the internal regulatory documents MI QMS 02.2017-2017 "Procedure for organizing and conducting practical training of students" and MI QMS 02.2020-2017 "Procedure for organizing and conducting practical training of master's/doctoral students". All types of internships are conducted at enterprises-internship bases with which the department has agreements.

An important factor in organizing the educational process is the presence of joint EP with foreign universities. On issues of developing SEP, work is underway with the Northwest University of Agriculture and Forestry, Yangling, Shaanxi Province. In accordance with this point, the AAM report proposed a recommendation.

A survey of students conducted during the EEK visit showed:

- 90.9% (60 people) and 6.1% (4 people) were “fully and partially satisfied” with the information support and explanation of the admission rules and strategy of the educational program before entering the university, “not satisfied” - 1.5% (1 person).

### **Analytical part**

Analyzing the standard “Development and approval of educational programs”, the members of the EEC came to the conclusion that the consideration and approval of educational programs takes place at the department at a sufficient level, is recommended by the decision of the Educational and Methodological Council of the University and is approved at a meeting of the Academic Council of the University.

The members of the EEC note that the educational program "Phytosanitary Technologies" is provided with RUP, syllabuses, UMKD, which are compiled in accordance with regulatory documents and meet the specifics of the accredited educational program. The set of disciplines of the CED, the choice of enterprises for undergoing industrial practices contributes to the formation of professional competencies of students. Leading scientists from near and far abroad take part in scientific consulting of doctoral students.

The analysis of the accredited educational program for compliance with the criteria of the standard "Development and approval of the educational program" shows that the content of the educational program, the sequence of their implementation, the depth of mastering and training comply with regulatory requirements. Educational program commissions have been created, which include faculty members, employers, foreign scientists, students, and the issues of designing, developing and approving educational programs and other issues of the educational process are discussed at meetings. Also, for each educational program, a head of the educational program has been appointed and working groups have been formed by specialties to develop the educational program, determine the profile and model of the graduate.

A graduate model of the accredited educational program has been developed. The graduate model in the educational program has been developed in accordance with the mission and strategic concept of the university, and employers' requests. The graduate model includes personal self-improvement competencies, key competencies, and professional competencies.

External examinations of the EP are represented by two types of examinations - mandatory, which the educational program undergoes when updating in the Register of the EHEA (formerly ESUVO) and mandatory annual review recommended by the "Rules for the Development of Educational Programs". The EP undergoes the procedure of external examination in the ratings and ranking of national agencies, for example, according to the results of the NAAR assessment, the accredited EP in 2022 took 3rd place within the EP position in the rankings of specialties in the Republic of Kazakhstan, and in 2023 - 2nd place. Consequently, educational and design activities for the development of the EP are carried out transparently, openly and express the interests of all interested parties.

The participation of the teaching staff and employers in the development and management of the EP ensures its quality. The content, volume, logic of building an individual educational trajectory for students, the influence of disciplines and professional practices on the formation of professional competence of graduates meet all the requirements for the implementation of the EP. Before approval, the educational program is assessed by employers. During the development of the EP, the opinion of interested parties - potential employers - is taken into account, with whom the EP is agreed upon and signed.

The study of employers' opinions on the quality of training of specialists is also carried out during the process of doctoral students undergoing industrial practice.

Along with professional training in the disciplines of educational programs, the University provides the opportunity to obtain advanced training certificates.

The need to develop joint educational programs is determined based on the analysis of the labor market, international trends and needs for professional personnel. Partners for the development and implementation of joint EPs are selected based on agreements and cooperation between universities, as well as on international academic ties. Criteria for selecting partners include academic reputation, experience in implementing joint programs, compliance with educational standards and mutual understanding of the goals and objectives of cooperation. At present, the SOPs have not been developed; activities are being carried out to conclude agreements.

The content and structure of the EP are developed in accordance with the National Qualifications System of the Republic of Kazakhstan, the qualification awarded upon completion of the accredited EP is formulated in the passport of the developed EP and corresponds to a certain level of QF-EHEA. The EP reflects learning outcomes based on Dublin descriptors.

A survey of students conducted during the visit of the IAAR EEC showed that:

- "completely satisfied" with the speed of response to feedback from teachers regarding the educational process – 89.4 (59 people)%; "partially satisfied" – 7.6% (5 people).

- satisfied with the quality of teaching: "completely satisfied" – 89.4% (59 people), "partially satisfied" – 7.6% (5 people), "not satisfied" – 3% (2 people).

When asked about how well the content of the educational program satisfies your needs, teachers responded positively, "very well" - 57.1% (32 people) and "well" - 42.9% (24 people) of respondents.

**Strengths/Best Practices for the EP 8D08104 - "Phytosanitary technologies":** not identified

**Recommendations of the EEC for the EP 8D08104 - "Phytosanitary technologies":**

- The leadership of the EP shall include in the Work Plans of the collegial governing bodies the issue of defining and needing to develop joint educational programs with foreign universities by 12/30/2025.

**Conclusions of the EEK on the criteria for the EP 8D08104 - "Phytosanitary technologies":** strong - 0, satisfactory – 11, requires improvement – 1.



#### 6.4. Standard “Continuous monitoring and periodic evaluation of educational programs”

- *The university must ensure a revision of the content and structure of the educational program, taking into account changes in the labor market, employer requirements and the social demands of society.*
- *The university must demonstrate the existence of a documented procedure for monitoring and periodically evaluating the EP to achieve the EP objective. The results of these procedures are aimed at continuous improvement of the EP.*

*Monitoring and periodic evaluation of the EP should consider:*

- *the content of the programs in the context of the latest achievements of science and technology in a specific discipline;*
- *changes in the needs of society and the professional environment;*
- *workload, academic performance and graduation of students;*
- *the effectiveness of student assessment procedures;*
- *needs and level of satisfaction of students;*
- *compliance of the educational environment and the activities of support services with the objectives of the educational program.*
- *All interested parties must be informed of any planned or undertaken actions in relation to the EP. All changes made to the EP must be published.*
- *Support services should identify the needs of different groups of students and their level of satisfaction with the organization of learning, teaching, assessment, and mastery of the educational program as a whole.*

#### **Evidential part**

The organization and control over issues of continuous monitoring and periodic assessment of accredited educational programs at the university is carried out on the basis of the PSIPM QMS “Regulations on the system of indicative planning and monitoring” and “Regulations on the procedure for developing a plan for the development of an educational program and monitoring its implementation”.

The quality of the EP implementation is assessed as part of the general education quality monitoring system, which consists of assessing the EP management (the level of the teaching staff, the organization of the educational process, regular assessment of the level of achievement of the program goals, the demand for graduates), the implementation of the EP (curriculum, standard programs of disciplines, methodological and information support, infrastructure, educational technologies, research and development work), the results achieved by students in mastering the EP (midterm assessment, final assessment, assessment of all types of practice). This procedure is carried out by the Department of Academic Program Development and Quality Assurance. The structure and content of the EP are adjusted annually taking into account the needs dictated by the labor market, the requirements of employers and the social demands of society in accordance with the University Development Program and the Department Development Plan. The organization of the educational process and monitoring is carried out on the basis of a number of documents: "Regulations on the system of internal quality assurance of education in NAO KATIU named after S. Seifullin"; "Regulations on the organization of the educational process in NAO KATIU named after S. Seifullin"; <https://kazatu.edu.kz/assets/i/stud/polozhenie-dist-obraz-ru.pdf>. At the department, the effectiveness of the EP implementation is assessed through control visits to classes, analysis of feedback from external practice supervisors, conclusions of the chairmen of state certification commissions, and reviewers of doctoral dissertations. Experts note that the accredited educational program is available to interested parties, is subject to monitoring and undergoes regular internal and external expert assessment. The results of the expert assessment are considered at meetings of the department and the institute council. Based on the monitoring results, proposals are formed for making changes and additions to the accredited EP. Upon receipt of positive decisions from the relevant collegial bodies, the proposals are submitted to the EP. As part of internal monitoring, a number of activities are carried out, including: interviews with teaching staff; checking the availability and analysis of the educational program development plan,

educational program implementation reports, decisions of collegial bodies, planning and reporting on research and development work, department meeting minutes and other documents; discussing identified discrepancies with leaders of educational programs.

The management of the educational institution monitors the progress of students along the educational trajectory by analyzing and evaluating academic achievements.

It is common practice to hold guest lectures with qualified and leading specialists from ministries, research institutes, and production managers. For example, in the 2023 academic year, the following lectures were given: Ermagambetova N.T., Head of the Quarantine Laboratory / State Institution "Republican Plant Quarantine Center" of the KGI in the AIC of the Ministry of Agriculture of the Republic of Kazakhstan - "Protection of plant resources of the Republic of Kazakhstan from phytopathogenic and weed quarantine organisms"; Aliyeva M.S., Deputy Head of the Territorial Inspector of the Republic of Kazakhstan./Territorial Inspectorate for Astana - "Organization of the territorial inspector service of the Republic of Kazakhstan". Using molecular biology techniques to identify harmful organisms, lectures were given by foreign scientists from the University of AgroParisTech (France), including Professor Bruno Anselme.

The department also holds round tables with the participation of teaching staff, employers, students and other interested parties, where issues related to the educational program are discussed with the participation of representatives of a number of organizations: RSE "Phytosanitary" of the KGI in the AIC of the Ministry of Agriculture of the Republic of Kazakhstan; TOO "Astana NAN"; representatives of employers - the Kazakh Research Institute of Plant Protection and Quarantine, the Kazakh Scientific and Practical Center for Plant Protection named after A.I. Barayev, the RSU "RMCFP" of the Ministry of Agriculture of the Republic of Kazakhstan, RSE "Phytosanitary".

As part of the university's internal control, the university conducts an inspection of the state of methodological support for the educational process, and collects and analyzes data on consumer satisfaction.

The analysis of the results of the survey of the EP showed a high level of satisfaction of students with the quality of the implementation of the EP:

- "Very satisfied" with the support of educational materials during the learning process – 89.4% (59 people); "partially satisfied" – 7.6% (5 people).
- Available scientific laboratories "very satisfied" – 84.8% (56 people); "partially satisfied" – 13.2% (9 people);
- Objectivity in assessing knowledge, skills and other academic achievements "very satisfied" – 92.4% (6 people); "partially satisfied" – 6.1% (4 people);
- The quality of the educational programs in the OP "very satisfied" – 90.9% (60 people); "partially satisfied" – 7.6% (5 people);
- Level of accessibility of the dean's office (school, faculty, department) "very satisfied" – 87.9% (58 people); "partially satisfied" – 10.6% (7 people);
- Relationships between student and teacher "very satisfied" 87.9% (58 people); "partially satisfied" – 9.1% (6 people);
- The quality of the educational program as a whole "very satisfied – 89.4% (59 people); "partially satisfied" – 7.6% (5 people).

The information collected and analyzed by the university and the department within the framework of the accredited educational programs is used to monitor the educational activities of the university. Based on the survey results, corrective actions are taken. All interested parties (stakeholders, graduates, students of the department's teaching staff) are familiarized at department meetings, during seminars at the faculty, and when signing educational programs. During the meetings, employers confirm their participation in the development and subsequent analysis of the educational program.

Analysis of the self-assessment report and familiarization with the university documentation showed that the university constantly monitors the implementation and evaluation



of educational programs. The results of the monitoring become the initial data for further improvement of educational programs taking into account the needs of modern society.

At the university, monitoring is implemented as a combination of control over the development of the content of educational programs and control over the success of training. The university uses modern information systems, information and communication technologies and software for the purpose of adequate information management. Identification of weaknesses and monitoring of the quality of the EP is reflected in the Roadmap of the Department.

In accordance with the State Program for the Development of the Agro-Industrial Complex of the Republic of Kazakhstan, with the Concept of the Transition of the Republic of Kazakhstan to Sustainable Development for 2007-2024, the Strategic Plan for Sustainable Development of Astana until 2030, the department carries out project, research and doctoral dissertations using remote sensing and GIS technologies.

The university has a system of internal monitoring of the quality of students' knowledge. Analysis of learning outcomes is carried out by courses and faculties in the context of educational programs. The efficiency and reliability of information for managing the quality of educational activities is ensured by using the information system "PLATONUS", which contains all information on the educational activities of students. Along with this, I would like to note that the effectiveness of student assessment procedures is not fully reflected.

The revision of the content of the accredited educational program is carried out in connection with changes in the regulatory documents of the Ministry of Higher Education of the Republic of Kazakhstan, the introduction of new areas and elective courses. The updating of the educational program is carried out in accordance with the requests of employers, which is reflected in the approval of the catalog of elective disciplines for the relevant academic year.

Registration of students' academic achievements is carried out through an electronic journal (grades for midterm and final assessments, practical training, research and development work, state exams). Based on the results of the sessions, the Department of Academic Affairs collects and processes information on the progress of the educational process and generates a report on the results of the examination session. Based on the report, a qualitative and quantitative analysis of students' academic performance in courses is carried out, the results of which are heard and discussed at meetings of departments, the rector's office and the Academic Council of the University. Information on proposed or planned actions, as well as all changes in the EP, are posted on the University website

#### **Analytical part**

The EEC confirms that the university carries out continuous monitoring, periodic assessment and revision of educational programs for the effective implementation of the educational process and carries out work to create a favorable learning environment for students. Employers and scientists, including foreign ones, are involved in the process of designing, developing and implementing, as well as revising the EP, to conduct classes, and consult doctoral students.

The EEC notes that the university ensures the revision of the content and structure of educational programs with the participation of employers. This was confirmed during an interview with representatives of the Department of Biology, Plant Protection and Quarantine and an analysis of the submitted documents. The educational program is focused on learning outcomes, which are reflected in the cycles of basic and specialized disciplines, additional modules (all types of practice, completion of dissertations). Promotion of personal growth and development of students in the process of mastering the program is carried out on the basis of studying their academic achievements, transcripts of learning outcomes for academic mobility, etc. The interests of students are also taken into account by surveying their opinions on the content of the disciplines taught, the quality of seminars, the work of teachers, etc. The EEC notes that the university ensures the revision of the content and structure of educational programs with the participation of employers.

During meetings with the faculty and teachers, the members of the EEC concluded that in most cases, the university implements test control of academic achievements as part of assessment, in some cases written and oral, but the effectiveness of assessment procedures, determining the development of abilities that allow assessing the achieved learning results causes difficulties for the faculty.

The syllabuses present the forms and criteria for assessing students, but how the effectiveness of the procedure is determined is not clearly indicated.

The minutes of the department meetings confirm the participation of students, graduates and employers of the accredited educational programs in the development of the EP. During the interview, the members of the EEC found that the students have information about the educational program they are studying under, its advantages and benefits compared to other universities implementing similar EPs, and are also satisfied with its quality.

The results of monitoring the quality of the implementation of the EP are presented in the form of analytical reports and reports and are considered at meetings of the university's collegial bodies. The organization of monitoring procedures within the framework of the evaluation of the EP is planned. The results of quality monitoring are considered in the context of taking preventive and corrective measures.

In order to monitor the satisfaction of students at the university, a computer survey “The teacher through the eyes of the student” was conducted, which was confirmed by interviews with teaching staff.

The Commission notes that the university ensures a review of the content and structure of educational programs, and an external expert assessment is also carried out, but along with this, it is necessary to strengthen the work on publishing changes in official sources.

The analysis of the accredited educational program for compliance with the criteria of the standard showed that the content of the educational program, the sequence of their implementation, the depth of mastering and training meet the regulatory requirements. Commissions have been created, which include teaching staff, employers, foreign scientists, students, at whose meetings issues of designing, developing and approving the educational program and other issues of the educational process are discussed. Also, for each educational program, a leader of the educational program has been appointed and working groups have been formed by specialties to develop the educational program, determine the profile and model of the graduate. During the implementation of the educational process, the integration of accredited educational programs into the international educational space is carried out through cooperation with foreign universities in the format of internships, guest lectures, video conferences.

**Strengths/Best Practices of the EP 8D08104- "Phytosanitary technologies":** not identified

**Recommendations of the EEC for the EP 8D08104- "Phytosanitary technologies":**

- The leadership of the educational institution must develop a mechanism for determining the effectiveness of the evaluation procedures for the educational institution's students by September 1, 2025.

Conclusions of the EEK on the criteria for the EP 8D08104- “Phytosanitary technologies”: strong – 0, satisfactory – 9, requiring improvement – 1.

6.5. Standard "Student-centered learning, teaching and assessment of academic performance"

• *The leadership of the educational institution must ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths.*

- *The management of the educational program must ensure that teaching is based on modern achievements of world science and practice in the field of study, the use of various modern teaching methods and assessment of learning outcomes that ensure the achievement of the educational program's goals, including competencies and skills for performing scientific work at the required level.*
- *The management of the educational program must determine the mechanisms for distributing the students' academic workload between theory and practice within the educational program, ensuring that each graduate masters the content and achieves the educational program's goals.*
- *An important factor is the availability of our own research in the field of teaching methods for the educational program.*
- *The university must ensure that the procedures for assessing learning outcomes correspond to the planned results and objectives of the educational program.*
- *The university must ensure consistency, transparency and objectivity of the mechanism for assessing the learning outcomes of the EP. The criteria and methods for assessing learning outcomes must be published in advance.*
- *Assessors must be proficient in modern methods of assessing learning outcomes and regularly improve their skills in this area.*
- *The leadership of the educational institution must demonstrate the existence of a feedback system on the use of various teaching methods and assessment of learning outcomes.*
- *The leadership of the EP should demonstrate support for learner autonomy while providing guidance and assistance from the teacher.*
- *The management of the educational institution must demonstrate that there is a procedure for responding to student complaints.*

### **Evidential part**

The management of the EP provides equal opportunities for students, regardless of the language of instruction, to form an individual educational program aimed at developing professional competence. The educational process is conducted in the state and Russian languages. Students receive information about the possibilities of forming an individual educational trajectory, as well as assistance in its implementation through the university website, as well as with the help of an advisor. Academic disciplines are provided with teaching and methodological complexes, methodological instructions for laboratory work. Students are given the opportunity to independently form an educational trajectory and choose disciplines for the next academic year from several proposed ones.

In order to implement high-quality training of specialists in the EP 8D08104- "Phytosanitary Technologies", student-centered learning, teaching and assessment of learning outcomes are carried out: flexible learning paths are developed; conditions are created to increase motivation and involvement of students in the educational process; consistency and objectivity of learning outcomes assessment are ensured in accordance with the general and professional competencies declared in the EP. The educational process uses modern achievements of world science and practice. The University creates favorable conditions for learning, provides maximum assistance to the personal development and self-realization of each student, as well as the professional growth of the teacher. The academic policy of the University is aimed at stimulating the motivation of students, forming the expected learning outcomes and personal qualities of students.

The results of the survey of students show a fairly high level of satisfaction with the educational services received in doctoral studies.

The educational program 8D08104 - "Phytosanitary Technologies" was developed in accordance with the Dublin descriptors, contains a description of the level and volume of knowledge, skills, abilities and competencies of students upon completion of the educational program, is based on the learning outcomes, formed competencies, as well as the total number of ECTS credit units.

The choice of the optimal individual training profile is carried out by students in departments with the help of advisers from among the most experienced, highly qualified teachers.



In the process of implementing the EP, individualization of the educational process is actively implemented through the implementation of inclusive and blended learning in the educational practice of the University. In the educational process, the teaching staff uses innovative teaching methods in the form of business and role-playing games, simulation trainings, discussions, brainstorming methods, situational tasks, slide show design. Presentations of educational courses are practiced using interactive whiteboards, multimedia projectors, and the use of video equipment in classes. When conducting seminars, the teaching staff actively uses monitoring and training technologies, electronic textbooks.

The faculty of the department actively participates in the implementation of innovations, methods and ways of teaching, including in the course of conducting scientific projects focused on the needs of employers and consumers, and also conducts developments in the field of methods of teaching disciplines. New teaching technologies are widely used, interactive boards and projectors, LED screens on which presentation, audio and video materials are demonstrated are used for conducting classes. Along with this, it is necessary to emphasize that for the high-quality implementation of the educational process it is necessary to have our own research in the field of teaching disciplines. Information on this point is not fully presented, this point was also touched upon during the interview with the faculty.

The educational process and research and development work on EP 8D08104 "Phytosanitary Technologies" involves the involvement of centralized scientific centers and scientific platforms of KATIU in the educational process, including: Agroecological Testing Center; Scientific and Innovative Center for Phytosanitary Monitoring, Protection and Quarantine of Plants; Scientific and Production Platform of Agricultural Biotechnology; Center for Technological Competence in the Field of Digitalization of the AIC. Along with this, doctoral students actively use modern geographic information systems and technologies in the agro-industrial complex, the development of innovative technologies, with the dominance of digitalization, GIS technology. In order to consolidate the practical skills of doctoral students, classes are held in laboratories - GIS technology in agriculture and a number of others. The material base of the department of the laboratory, the laboratory fund and reference literature, collections are also used.

Within the framework of the accredited educational program, methodological recommendations for the implementation of doctoral dissertations have been developed, articles on the topic of the dissertation have been prepared, as well as a number of textbooks: Baibusenov K.S. "Ecology of Organisms" (2022). Further, in 2020, D.T. Konysbaeva and V.S. Gorbulya prepared a textbook "Plants of recreational areas of Astana and measures for their protection", which was recommended by the Russian University of Microbiology and Microbiology; a textbook "Protection of ornamental crops from diseases and pests", considered at a meeting of the Academic Council of the S. Seifullin KATIU.

Doctoral students take part in the implementation of department projects, based on the results of which they publish scientific articles. Both teachers and doctoral students report the results of research at university, republican and international scientific conferences. The percentage of students' participation, according to the information of the faculty during interviews, shows an increased interest of students in research activities.

Students have free access to information resources and library collections, to educational and scientific literature, information bases, including international data sources located in electronic libraries.

During the visit to the practice bases, the practice managers from the enterprise noted the sufficient theoretical and practical level of preparation, and the interest in obtaining additional practical knowledge of students in the accredited educational program.

The teaching staff of the educational institution carries out work aimed at improving the teaching methods of the educational disciplines of the educational institution. In order to improve the quality of teaching, the teachers of the department regularly undergo advanced training at the

national and international levels. For example, Sibataev A.K., Khasanov V.T. completed the advanced training course "Laboratory course of the summer school in the direction of microbiology, immunology, biochemistry, biotechnology, quality and safety of food products / in the disciplines: Biotechnological methods in plant protection, virology, research methods, molecular genetic methods in plant protection and quarantine / 26.09-7.10.2023, LTD "Biologica"; etc.

The assessment mechanism includes current control, midterm control, midterm and final certification. The assessment of knowledge, skills and professional competencies of students studying using the credit technology of education is carried out on a 100-point scale with the transformation of the final result into a letter and digital equivalent. An appeal commission is created at the university for the period of the examination session. All academic achievements of students are reflected in the transcript. The main criterion for completion of the educational process for preparation for doctoral studies is 180 academic credits, including all types of educational and scientific activities.

Monitoring of students' progress along the educational trajectory is carried out by the "Registrar's Office" based on the system of assessing students' results and reports of the department's teaching staff. In connection with changes in regulatory documents, the university has developed a standard for organizing "Knowledge control and final assessment of students". Since this is a higher level of education, modern assessment methods must be used to achieve student assessment. Also, the educational process must have a feedback system for the use of their own teaching methods. During interviews with the teaching staff, it was noted that teachers did not provide sufficient information on their own teaching methods. The university management also needs to organize advanced training courses on this issue.

The university has developed and approved by the Academic Council of NCJSC " S. Seifullin KATIU" the "Academic Policy", which presents the main documents regulating the life cycle of students - from enrollment in the university to completion of education.

Intra-university quality control of education is carried out on the basis of the Platonus program, which allows students and teachers to view the results of current, midterm, and intermediate progress control online. Along with this, the teaching staff of the accredited educational institution must master modern methods of assessing learning outcomes, since the procedure for assessing students used by them is a test form of control.

To provide social support to students, the university has developed the "Regulations on the procedure for awarding bonuses and providing financial assistance to students" and the "Regulations on the procedure for awarding vacant educational grants that become available in the process of obtaining higher education."

In order to improve the quality of organization and efficiency of the educational process, control the degree of independence of students in completing dissertations, as well as to increase their self-discipline and respect for intellectual property rights, all works are checked for plagiarism through the Antiplagate program.

Of great importance in the student-oriented educational process is the active involvement of doctoral students in scientific projects, as one of the innovative teaching methods, which stimulates active scientific work and practical orientation of doctoral students. Within the framework of the department, the following scientific works are carried out with the participation of doctoral students and based on the results of which scientific papers have been published:

PCF "Development and improvement of integrated systems for the protection and quarantine of fruit, vegetable, grain, forage, legume crops and plants".

Registration small-plot and production tests of pesticides;

Project GF AP19676907 "Development of technology for the efficient use of extracts and spent substrates of fungi as a means of protecting potatoes from phytopathogens with the production of a feed additive" under the 217 Budget program of the Ministry of Health of the Republic of Kazakhstan for 2023-2025.



IRN AR19174468 "Transfer and adaptation of flax growing technology of Kazakh and Chinese varieties to increase productivity in obtaining oil and fibers in Northern Kazakhstan" 2023-2025.

Project GF AR19675312 "Analytical system for forecasting the dynamics of the number of pests of grain crops in Kazakhstan based on a neural network model", for 2023-2025;

GF Project AP19678905 "Methodology for forecasting invasions, preventive control and management of populations of especially dangerous Moroccan locusts based on the use of geoinformation and IT technologies", for 2023-2025;

NTP: PCF "Development of technologies using new strains of beneficial microorganisms, enzymes, nutrients and other kits in the production of special dietary food products (BR10754998)" (multidisciplinary)

Project GF AP14870270 "Molecular genetic substantiation of the resistance of domestic and foreign potato varieties and hybrids to the main viral, nematode diseases and late blight" under the 217 Budget program of the Ministry of Health of the Republic of Kazakhstan for 2022-2024;

IRNAP14870014 "Application of DNA technologies in breeding and genetic research of millet crops in the creation of new domestic drought-resistant varieties" 2022-2023;

The State Fund project for 2024-2026 "Potatoes with colored flesh for Northern Kazakhstan: selection of varieties and hybrids, creation of biologized protection technology."

AR22685460 "Correlation genetics of resistance to major viruses and quarantine pests of susceptible potato varieties and hybrids".

The university has developed a procedure for the EP management to respond to student complaints, which is described in the regulation on the procedure for considering student complaints by the university management. In the period 2020-2021, there was a sharp increase in complaints, especially in connection with the new conditions of distance learning. In subsequent years, the situation stabilized, but there was a trend towards an increase in complaints related to the resolution of administrative issues. In 2023-2024, there was a decrease in the number of complaints on technical issues and an increase in complaints on social issues. Complaints and suggestions are considered through direct mail to the rector, a virtual reception, and established reception hours for the rector and vice-rectors.

During interviews with employers, the opinion was expressed that the management of the educational institution should focus on conducting practice-oriented classes and introducing a dual form of education.

### **Analytical part**

An analysis of the standard "Student-centered learning, teaching and assessment of academic performance" showed that the accredited educational program uses modern information and pedagogical technologies for teaching.

The University management demonstrated its openness and accessibility to students, faculty, and employers: reception hours for personal matters have been determined, and meetings with the rector are held on a systematic basis. Employers participate in the development of the EP by making their proposals regarding new elective disciplines. The University has employers' feedback on the EP modules, MOPs, KEDs, and graduate models. Taking into account the changes in the tasks of the phytosanitary service of the Republic of Kazakhstan, the needs of society and the professional environment, changes are being made to the EP in terms of the content of the disciplines studied, revision of the labor intensity, and the format of classes. When studying the state of affairs regarding the results of the analysis of changes in the labor market, employers' requirements, and social demands of society, letters from employers were provided on the inclusion of new elective disciplines. The commission notes that the department is constantly monitoring the labor market and taking into account the influence of factors external environment (competitors, phytosanitary condition of imported and exported products, etc.), analysis of employer feedback to identify and take into account expected learning outcomes when developing and updating the content and structure of the educational program.

Experts note that the university administration is constantly working to create comfortable conditions for the educational process. The university uses advanced approaches to attention to various groups of students, including people with disabilities. Distance learning technologies make it possible to continue the educational process even during long internships.

With the introduction of student-centered learning, the requirements for teaching and for teaching activities in general change.

The faculty of the department actively participates in the implementation of innovations, methods and teaching methods, including in the course of conducting scientific projects aimed at the needs of employers and consumers. However, along with this, it is necessary to strengthen the work on developments in the field of teaching methods of disciplines, since during meetings with focus groups there was no confirmation of the presence of research in the field of methods of teaching the disciplines of the EP, it should also be noted that there is a need to analyze the feedback on the use of various methods of teaching and assessing learning outcomes. During the interview, the vision of top managers and faculty was distinctive in terms of the use of methods for assessing learning outcomes. In most cases, everything comes down to a quantitative assessment of academic performance indicators without correlating the qualitative component, confirming the presence of abilities and opportunities to cover learning outcomes. Modern education requires regular revision of teaching methods, as well as mastering new methods of assessing the knowledge of doctoral students. The academic achievements of students in all types of educational assignments and tasks are assessed using a point-rating letter system of knowledge assessment. Along with this, the teaching staff of the accredited educational institution must master modern assessment methods as part of advanced training. As part of the analysis of advanced training programs, there was no confirmation of the presence of advanced training certificates for the teaching staff in modern methods of assessing learning outcomes.

The quality of educational services provided is assessed on the basis of internal and external sociological research. The department conducts a survey of faculty, staff and students, summarizes the data obtained, which are used to improve the implementation of educational programs. At the same time, academic objectivity plays a significant role in every aspect of the educational process, each teacher is individually responsible for honesty and accuracy in all aspects of work and study. Objectivity is the guiding principle of the entire educational process, starting from daily current assessments, ending with passing exams and defending doctoral dissertations.

According to the results of the survey, 92.4% (61 people) of students are “completely satisfied” with the level of objectivity and fairness of teachers. The survey conducted during the visit of the IAAR EEC showed that students express complete satisfaction:

- “teaching methods in general” – 87.9% (58 people);
- “quality level of teaching” – 89.4% (59 people);
- “objectivity of assessment of knowledge, skills and other academic achievements” – 92.4% (61 people);
- “objectivity and fairness of teachers” – 90.9% (60 people);
- “requirements of the teaching staff for students” – 87.9% (58 people).

**Strengths/Best Practices for the EP 8D08104 - "Phyosanitary technologies":** not identified.

**Recommendations of the VEC for the EP 8D08104 - "Phyosanitary technologies":**

- The leadership of the educational institution shall develop a Plan for improving the qualifications of the teaching staff as part of mastering modern methods for assessing learning outcomes before the start of the 2025-2026 academic year.

- The EP management must determine KPI indicators in terms of developing its own teaching methods by December 2025.

- The management of the educational institution should, on an ongoing basis, annually include in the plans of department meetings issues on the qualitative assessment of learning outcomes and the effectiveness of measuring the achievements of learning outcomes.

**Conclusions of the EEC on the criteria for the EP 8D08104 - “Phytopsanitary technologies”:** strong – 0, satisfactory – 7, requiring improvement – 3.

#### 6.6. Standard "Students"

- *The university must demonstrate the policy of forming the contingent of students and ensure transparency of its procedures. The procedures regulating the life cycle of students (from admission to completion) must be defined, approved, published.*
- *The management of the EP should provide for the implementation of special adaptation and support programs for newly admitted and foreign students.*
- *The university must demonstrate that its actions comply with the Lisbon Recognition Convention, including 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 education.*
- *The university must provide opportunities for external and internal academic mobility of students, as well as assist them in obtaining external grants for their studies.*
- *The university should actively encourage students to self-educate and develop outside the main program (extracurricular activities).*
- *An important factor is the presence of a mechanism to support gifted students.*
- *The institution must demonstrate cooperation with other educational organisations and national centres of the “European Network of National Information Centres on Academic Recognition and Mobility/National Academic Recognition Information Centres” ENIC/NARIC in order to ensure comparable recognition of qualifications.*
- *The university must provide students with internship places, demonstrate the procedure for facilitating the employment of graduates, and maintaining contact with them.*
- *The university must demonstrate the procedure for issuing graduates with documents confirming the qualifications they have received, including the learning outcomes they have achieved.*
- *The management of the EP must demonstrate that graduates of the program have skills that are in demand in the labor market and that these skills are actually in demand in the labor market.*
- *The management of the educational institution must demonstrate the existence of a mechanism for monitoring the employment and professional activities of graduates.*
- *An important factor is the existence of an active alumni association/union.*

#### **Evidential part**

The EP management demonstrates the policy of forming the contingent of students of the EP from admission to graduation and ensures the transparency of its procedures. To form the contingent of students, the faculty of the department conducts career guidance work in educational organizations of the city of Astana and in other regions of Kazakhstan.

The formation of the contingent of doctoral students is carried out at the expense of state educational grants and through tuition fees paid by citizens themselves and other sources.

The policy of forming the contingent of students at S. Seifullin KATIU is systemic and is implemented throughout the academic year. To organize the work on forming the contingent of students at the university, the "Regulations on the Admissions Committee" and "Regulations on the Department of Formation of the Contingent and Admission of Students", "Academic Policy" have been developed. In the educational program 8D08104 - "Phytopsanitary Technologies" in the 2022-2023 academic year, 3 students were admitted to the first year. In the second year, 2 doctoral students are studying in this direction. In the third year, this academic year, there are 4 students, two of whom are on academic leave to care for a child, and 1 doctoral student is studying on a targeted grant from the Republican Plant Quarantine Center in Astana. The movement of the contingent on issues of expulsion, transfer, reinstatement of students, leaving for a repeat year of study and providing academic leave is carried out in accordance with VND 02.2040 - 2022



"Regulations on the procedure for expulsion, transfer, reinstatement and provision of academic leave to students of S. Seifullin KATIU".

The University management strives to provide support to gifted students. Gifted students have the right to apply for presidential and personal scholarships in accordance with the QMS PPNPISO 11010.27 "Regulations on the procedure for assigning Presidential and personal scholarships to students at NAO " S. Seifullin KATIU "<https://kazatu.edu.kz/pages/coo/prezidentskaa-stipendia>The university provides awards to doctoral students for community service (PPPO QMS 11040.10 "Regulations on the procedure for awarding awards to students").

Information stands and social networks are used to inform applicants. On the official Internet resource of the university <http://kazatu.kz> They can familiarize themselves with the conditions for further admission to the university, the features of the programs, and can also receive information about the university's specialties. The university has various student collegial bodies such as the Youth Affairs Committee, the Alliance of Students of Kazakhstan, the Youth Wing of the Zhas Otan Party, the Student Parliament, the Student Council, and the Student Trade Union Committee. There is also a debate club called Amanat, and doctoral students are members of the Faculty Council and the Academic Council of the university. <http://portal.kazatu.kz/index.php?mz=-1&pg=1100°ree=1>, <https://kazatu.edu.kz/pages/universitet/studentskaa-zizn/kdm>.

Upon admission to study, doctoral students get acquainted with the structure of the university, meet with the leadership of the faculty and department, and advisers. An adviser, appointed by order of the university for an educational program, provides academic support to students throughout the entire period of study.

The University provides external and internal mobility of students. Academic mobility at S.Seifullin KATIU is determined primarily by the existence of agreements on mutually beneficial cooperation with many foreign universities and higher education institutions of the Republic of Kazakhstan, countries of the near and far abroad in the field of science and education, and is regulated by the "Rules for organizing the educational process using credit technology of education (Order of the Ministry of Education and Science of the Republic of Kazakhstan dated November 22, 2007 No. 566 with amendments and additions dated July 30, 2010 No. 404)", "Action plan for organizing internal and external academic mobility of students". Academic mobility of students is regulated by internal regulatory documents:

- "Regulations on the organization of internal academic mobility of students at the Kazakh Agrotechnical Research University named after S.Seifullin"; Academic policy.

It also relies on «Regulations on the organization of external academic mobility of students <https://kazatu.edu.kz/pages/coo/vnutrennaa-akademiceskaa-mobilnost>". The source of funding for external academic mobility of students are the funds annually allocated in the expenditure part of NCJSC " S. Seifullin KATIU". Academic mobility of students is implemented on the basis of agreements between the university and foreign universities and universities of the Republic of Kazakhstan. The university has agreements with a number of foreign universities in Prague, Czech Republic; Kastamonu, Turkey; Krakow, Poland; Slovak Agricultural University Nitra, Slovakia; universities in the USA and France. The main criterion for selecting students for academic mobility abroad is the availability of an international IELTS, TOEFL certificate, or successful completion of the test at the university (advanced level) and a GPA score of at least 3.33. For example, PhD student Ismailova A.A. studied at the National Research Institute of Plant Protection in Poland (2023), Kanapin Ch. at the Plovdiv Agricultural University (Bulgaria 2023), Otemisova A. at the Bolu Abant Izzet Baysala University, Turkey, as well as PhD students Bazarbaeva M., Massalimova Sh. at the St. Petersburg Forestry University (2024). The University carries out certain work within the framework of ensuring academic mobility, along with this, work in the direction of obtaining external grants for training is not fully carried out.

Doctoral students of an accredited EP conduct dissertation research, which allows them to successfully defend scientific work. For example, in 2023, doctoral student Gaukhartas



Tanirbergenovna Abysheva successfully defended her dissertation work on the topic “Soltustik Kazakhstan zhagdayinda egistik aryshtyn (Camelinasativa) aurularymen zhane ziankesterimen agrotechnikalyk zhene biology kuresu sharalaryn negizdeu.” The candidates of the accredited educational program are involved in the implementation of the department's research work, the results of which are presented in scientific articles and conference presentations. Students undergo scientific internships in domestic and foreign partner universities - KazNIIzIR, KazNPTsZH named after A.I. Barayev, Tatar Research Institute of Agriculture, St. Petersburg State Agrarian University, Krakow Agrarian University, Plovdiv Agrarian University, St. Petersburg Forestry University, etc.

An important stage in the university's activities is the successful employment of graduates. To assist graduates in finding employment, the university annually holds a Job Fair, which is attended by representatives of more than 100 organizations. Among the active participants of the fair are NCJSC Astana-Zelenstroy, State Institution Republican Plant Quarantine Center, Republican State Institution Republican Methodological Center for Phytosanitary Diagnostics and Forecasts of the Ministry of Agriculture of the Republic of Kazakhstan and RSE Phytosanitary, Kazakh Research Institute of Plant Protection and Quarantine, Kazakh Scientific and Practical Center of Grain Farming named after N.I. Barayev, Kazakh Research Institute of Agriculture and Plant Growing, Alem Agro, Baiserke Agro, etc.

The EP management demonstrates the presence of a mechanism for monitoring the employment and professional activities of graduates. At the beginning of the academic year, the relevant structural divisions of the university monitor the employment of current year graduates. Certificates of employment confirmation are requested, information on pension contributions available in the public domain is analyzed, and communication with graduates is established. In order to study the labor market, graduate employment is monitored, an electronic database of graduates has been compiled <http://kazatu.kz/ru/ob-universitete/vipusniki-gordost-kazatu/>. Employment of graduates at the university is carried out in accordance with the standard SO VND 4.12.01 "Management of the process of distribution of graduates". Graduates of the accredited EP, in addition to specialized enterprises and institutions, are employed in ZELENSTROY LLP, Astana Botanical Garden, Almaty City Botanical Garden, pesticide production plant (Stepnogorsk), akimats, departments of the Ministry of Agriculture of the Republic of Kazakhstan, universities, colleges, etc.

The University successfully operates the Association “KatSU Alumni Club named after S. Seifullin”, which takes an active part in all areas of the University's activities. An organization is a legal entity that owns separate property and is liable for its obligations with this property.

The bases for industrial internships are organizations corresponding to the profile of the educational program, with which the university enters into long-term contracts.

#### **Analytical part**

Having analyzed the standard "Students", the members of the EEC came to the conclusion that the university demonstrated the policy of forming the contingent of students and the transparency of its procedures, the compliance of its actions with the Lisbon Recognition Convention. The members of the EEC confirm that the policy of forming the contingent of students is transparent, and the procedures regulating the life cycle of training are approved and presented on the university's website.

The leadership of the EP demonstrated the implementation of special adaptation and support programs for foreign students, and actively encourages students to self-educate.

The University cooperates with other educational organizations on academic mobility, provides students with internships, and facilitates graduate employment. However, despite opportunities for external and internal academic mobility of students, this area needs to be developed by the leadership of the educational institution, and it is also necessary to develop an area to assist in obtaining external grants for training.

The university has a public association, the "S. Seifullin KATIU Graduates Club". During interviews with graduates, the members of the EEC defined the role of this association, its participation in the life of the university, and the holding of various events. However, the leadership of the OP needs to strengthen its work on informing about the activities of this Association, since not all participants know about the existence of the Association, which was confirmed at a meeting with graduates, and there is also a lack of full information support on the website and in the university's social networks.

According to the survey results, students express complete satisfaction:

- "Availability of academic counseling" – 92.4% (61 people);
- "Availability of health care services" – 81.8% (54 people);
- "Existing educational resources" – 89.4% (59 people);
- "General quality of educational programs" – 90.9% (60 people);
- «"The speed of response to feedback from teachers on issues related to the educational process" – 89.4% (59 people).

**Strengths/Best Practices EP 8D08104- "Phytosanitary technologies":** not identified

**Recommendations of the EEC:**

- The EP management shall develop a mechanism for expanding external and internal academic mobility, as well as determine measures for obtaining external grants by students. Deadline: September 1, 2025.
- The university management shall ensure transparency of the activities of the Alumni Association through information support and coverage in social networks, the university website and the media. Annually develop and approve an activity plan for the Alumni Association, taking into account their participation in the development and updating of the EP and their development plans. Duration: on an ongoing basis.

**Conclusions of the EEC on the criteria for the EP 8D08104 - "Phytosanitary technologies":** strong - 0, satisfactory - 11, requiring improvement - 1

6.7. Standard "Teaching staff"

- *The university must have an objective and transparent personnel policy in the context of the educational program, including hiring (including invited faculty), professional growth and development of personnel, ensuring the professional competence of the entire staff.*
- *The university must demonstrate that the quality of the teaching staff complies with the established qualification requirements, the university strategy, and the goals of the educational program.*
- *The leadership of the EP must demonstrate the change in the role of the teacher in connection with the transition to student-centred learning and teaching.*
- *The university must provide opportunities for career growth and professional development of teaching staff, including young teachers.*
- *The university must involve in teaching specialists from relevant fields who possess professional competencies that meet the requirements of the educational program.*
- *The university must demonstrate the existence of a mechanism for motivating the professional and personal development of the teaching staff.*
- *The university must demonstrate the widespread use of teaching staff, information and communication technologies and software in the educational process (for example, on-line training, e-portfolio, MOOCs, etc.).*
- *The university must demonstrate its focus on developing academic mobility and attracting the best foreign and domestic teachers.*
- *The university must demonstrate the involvement of each teacher in promoting a culture of quality and academic integrity in the university, and determine the contribution of the teaching staff, including invited faculty, to achieving the goals of the educational program.*

- *An important factor is the involvement of teaching staff in the development of the economy, education, science and culture of the region and the country.*

### **Evidential part**

The management of the EP demonstrates the application of the university's personnel policy in accordance with the current labor legislation of the Republic of Kazakhstan and the Rules for competitive replacement of positions of teaching staff and researchers of higher educational institutions. The implementation of the educational program 8D08104-"Phytosanitary Technologies" is carried out by the Department of "Biology, Plant Protection and Quarantine" of the Agronomic Faculty. The implementation of the educational program is carried out by 4 candidates of science, as well as 1 doctor of science, 3 PhD, who supervise dissertations. The declared domestic and foreign consultants have a sufficient Hirsch index and articles published in journals included in the Scopus and Web of Science databases. The average age of the department's teachers is 47 years. The proportion of teachers aged 40 to 60 years is 46.4%, or 13 people. The share of young teachers under 40 years of age is 28.6%, or 8 teachers, including: 2 PhD doctors of philosophy, associate professors - Baibusenov K.S., Utelbaev E.A.; 2 PhD doctors of philosophy, senior teachers - Bazarbaev B.B., Elnazarkyzy R.; 1 PhD doctor of philosophy, assistant - Beisembina B.

The peculiarity of the University's personnel policy is a formed team that works effectively in accordance with the requirements and where each individual employee is comfortable. The personnel policy regulates the University's attitude to the principles and directions of the formation and functioning of the personnel management system, defines the main goals, objectives and mechanisms for the development of the University's personnel potential, establishes the rules for the selection, training and development of personnel.

Management and development of the teaching staff, ensuring its professional competence, compliance with the requirements of the educational program is one of the most important tasks of any educational program. The teaching staff of the department carries out educational, educational-methodical, scientific-research and educational work, as well as control and management of the research work of students. The teaching staff of the department annually publishes educational and educational-methodical literature. Among the recently published textbooks are "Phytosanitary technologies for the cultivation of agricultural crops", "Technology of processing and storage of plant products", "Innovative technologies in teaching of disciplines on specialty, "Plant protection and quarantine", "Plant protection in ornamental plant growing", "Chemical plant protection products", "Biological plant protection".

The university's personnel policy reflects institutional procedures in relation to the faculty and staff (hiring, promotion, incentives, layoffs, dismissal; rights and responsibilities, job descriptions), its accessibility for the faculty and staff, which are reflected in the university's internal regulatory documents.

The selection of personnel is carried out on the basis of an analysis of the needs of the educational program, based on the results of which a competition is announced to fill vacant positions. The assessment of the competence of teachers at the university to establish compliance with the position held is carried out by full-time employees passing a competitive replacement of positions of professors and teachers and certification, in accordance with the requirements of the competition committee and in accordance with the current legislation of the Republic of Kazakhstan. Also the selection of personnel, registration of their hiring, transfer and dismissal is carried out by the Administrative Department, which is guided by the Labor Code of the Republic of Kazakhstan dated May 15, 2007 No. 251, the Law of the Republic of Kazakhstan dated October 24, 2011. The University has developed the "Regulations on the internal regulations of JSC KATIU named after S. Seifullin".

The University carries out continuous assessment of the teachers' activities through scheduled certification, control visits to classes, scheduled sociological surveys, thereby ensuring



that the teaching staff potential corresponds to the university development strategy and the specifics of the educational program. The certification mechanism developed at the University allows for a comprehensive assessment of the teachers' activities in the context of their functional responsibilities.

The members of the EEC note that the university has created a comfortable psychological microclimate in the team and favorable conditions for the work of the teaching staff.

One of the forms of activating the educational process is mutual visits to classes by teachers of the department, holding open classes, and conducting a survey called "Teacher through the eyes of students". The results of these events serve as the basis for extending employment contracts of teaching staff, career advancement, and material incentives for teaching staff.

To improve the quality of teaching and ensure close links with production, specialists with experience in relevant industries are involved in the educational process: A.V. Latchininsky PhD, officer specialist in locust control, FAO Plant Production and Plant Protection Department; Kaliaskarov S.B. Deputy Director of the Department of Sanitary, Phytosanitary and Veterinary Measures of the Eurasian Economic Commission; Turganbaev T.A. Head of the Pesticide Registration Department of Astana-NAS LLP; Eltai Khamidzhanuly – General Director of the RSE "Phytosanitary"; Kachorov A.S. – Head of the Plant Protection Department of the A. Barayev Scientific and Practical Center of Agriculture.

In order to improve the professional level, motivate teaching staff and stimulate employees, the university has a system of rating and rewarding teachers and employees for their personal contribution and achieved results in their work. Employees are rewarded based on the results of their work during the academic year, successful completion of the admission campaign, for their contribution to the use of innovative technologies in the educational process, certification, accreditation, scientific results, for anniversaries and official public holidays. The mechanisms for stimulating the professional and personal development of the teaching staff are reflected in the Collective Agreement, in the "Regulations on the remuneration of employees of NCJSC S. Seifullin KATIU" and other payments (POTRDV QMS 11010.51), "Regulations on awards in NCJSC S. Seifullin Kazakh Agro Technical Research University" (PN QMS 11010.50).

The teaching staff uses innovations and information technologies in the educational process (case studies, business and role-playing games, trainings, debates, round tables, seminars, brainstorming, master classes, video lectures), etc. The classrooms of the department are equipped with interactive multimedia and projection equipment. Classes are conducted using presentations and video materials. For example, in 2022-2023, teachers of the department Baibusynov K.S., Alipbekova Ch.S., in the 2023-2024 academic year Suyundikova Zh.T., Myrzabaeva M.T., Gorbulya V.S. held open classes at the faculty and university level. In 2022, PhD associate professor Baibusynov K.S. recorded a course of video lectures for the master's program, senior lecturer Gorbulya V.S. for the master's program and senior lecturer. Lecturer Alipbekova Ch.A. for the Bachelor's degree program. The faculty of the department constantly replenishes the fund of electronic educational tools. To implement the listed educational technologies, the university provides free access to students and faculty to computers connected to the Internet.

The management of the educational institution ensures the completeness and adequacy of individual planning of the work of the teaching staff for all types of activities, monitoring the effectiveness and efficiency of individual plans, and evidence of the fulfillment of all types of planned workload by teachers is demonstrated.

The calculation of the teaching load for the academic year is carried out by the department in accordance with the working curriculum of the specialty and the contingent of students. The distribution of the teaching load is carried out taking into account the qualifications of the teachers. Lectures are given by candidates of science, professors, associate professors, and senior teachers.

The average workload is 680 hours. When planning the workload and drawing up the schedule, the management of the university and the educational institution strives to ensure a balance between teaching and other types of work in order to provide the faculty with the



opportunity to effectively engage in research, educational and methodological work. All teachers have basic education and can conduct classes in the state and Russian languages. Professor Khasanov V. T., PhD Baibusenov K. S., Myrzabaeva M. T. conduct classes in English.

The plan for advanced training includes taking short-term advanced training courses, attending various seminars, internships at leading universities in Kazakhstan, near and far abroad, as well as in relevant organizations. The purpose of advanced training for teaching staff is to update theoretical and practical knowledge, obtain new knowledge on modern and promising teaching technologies, etc. As part of the invitation of leading scientists, contacts have been established with the Plovdiv Agricultural University (Bulgaria), AgroParisTech (France), Northwestern University, and Xinjiang University (China). A lecturer from the University of Wyoming (USA), PhD doctor A.V. Lachininsky, was invited as a foreign consultant for doctoral students and to give lectures. Professor M. Pobozniak from the Krakow Agricultural University (Poland) has been repeatedly invited to give lectures at all levels of education, including doctoral studies. In addition, scientists from Russian universities and the Agricultural University (Bulgaria) work as scientific consultants.

The teaching staff of the accredited educational institution takes an active part in competitions for grant funding, program-targeted funding, commercialization projects of the Ministry of Higher Education of the Republic of Kazakhstan, the Ministry of Agriculture of the Republic of Kazakhstan. Research is carried out both within the framework of grant funding and PCF under the programs of the Ministry of Higher Education of the Republic of Kazakhstan, the Ministry of Agriculture of the Republic of Kazakhstan, and at the expense of economic entities. The total amount of funding by year for 2022-2024 amounted to more than 240 million tenge. Of the total contingent, 100% of doctoral students participate in research and initiative topics. Based on the results of the research work of the teaching staff of the accredited program during the reporting period, the following were published: 15 articles in journals included in the Scopus and Thomson Reuters database, 26 in journals included in the list of the Committee for Control in the Sphere of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan, and more than 100 scientific articles in various conferences, as well as 10 innovative patents were received, including 1 international, more than 10 recommendations for production, monographs and acts of implementation into production were prepared. The human resources potential and constructive cooperation with all leading organizations and enterprises in the field of phytosanitary service of the country (Republican Center for Plant Quarantine, State Institution "RMTCFDIP", RSE "Phytosanitary", the company "Syngenta", etc.) made it possible to develop a doctoral program that fully reflects the specifics of the program, and is also recognized by the NAAR ratings among the best programs in 2022-2023.

The teaching staff takes an active part in the life of society through publications in the media, television appearances on the prospects for the development of the industry and science. Events (round tables, seminars with the participation of employers and administration, foreign business partners) held at the level of the department, faculty to discuss the EP are regularly covered on Facebook pages and on the university website.

#### **Analytical part**

Based on the results of the analysis of the standard "Teaching Staff", the EEC notes the presence of an objective personnel policy, the staffing of the implemented educational program with qualified specialists, the compliance of the teaching staff potential with the university strategy and the specifics of the educational program.

During the visit to the department and interviews with the teaching staff, it was established that the university provides opportunities for career growth and professional development for the teaching staff of the EP.

Teachers participating in the implementation of accredited educational programs take an active part in various social, scientific-methodological and scientific-research, cultural and mass and other events of the region and the Republic.

The members of the EEC note that the availability of academic mobility of the teaching staff within the EP will improve the quality of educational services provided, provide an opportunity for young teachers to acquire scientific experience in leading foreign universities and universities of the Republic of Kazakhstan. The university provides opportunities for career growth and professional development of the teaching staff of the EP. Advanced training allows expanding the competencies of the teaching staff in organizing the satisfaction of the needs of the EP and the main strategic goal of the university - high-quality training of students. The university demonstrates its readiness to develop academic mobility within the EP, as well as to attract the best foreign and domestic teachers. To intensify this activity, teachers participate in the Bolashak, Erasmus, Tempus and other international programs. But, along with this, there is weak development in the implementation of outgoing academic mobility of the teaching staff.

Based on the results of the questionnaire, the teaching staff of the accredited educational institutions evaluate:

- "involvement of teaching staff in the process of making management and strategic decisions" "very good" – 19.6% (11 people); "good" – 69.6% (39 people);
- "encouraging innovative activities of the teaching staff" "very good" – 19.6% (11 people); "good" – 69.6% (39 people);
- "professional and personal growth for each teacher and staff member" «"very good" – 26.8% (16 people); "good" – 66.1% (37 people);
- "adequacy of recognition by the university management of the potential and abilities of teachers" "very good" – 26.8% (16 people); "good" – 64.3% (36 people);
- «scientific research initiatives of the teaching staff" "very good" – 39.3% (22 people); "good" – 57.1% (32 people);
- "adequacy of recognition by the university management of the potential and abilities of teachers" "very good" – 26.8% (16 people); "good" – 64.3% (36 people);
- "work on academic mobility" "very good" – 21.4% (12 people); "good" – 64.3% (36 people).

**Strengths/Best Practices for EP 8D08104 - "Phytosanitary technologies":** attracting specialists from industries with high professional competencies to teaching

**Recommendations of the EEC for EP 8D08104 - "Phytosanitary technologies":**

- The OP management shall develop an Action Plan for the development of academic mobility of the teaching staff. Deadline: November 1, 2025.

**Conclusions of the EEC on the criteria for EP 8D08104 - "Phytosanitary technologies":** strong - 1, satisfactory - 9, requiring improvement - 0

6.8. Standard "Educational resources and student support systems"

- *The university must ensure that educational resources, including material and technical resources, and infrastructure comply with the goals of the educational program.*

- *The management of the EP must demonstrate the availability of classrooms, laboratories and other facilities equipped with modern equipment and ensuring the achievement of the OP's goals.*

*The university must demonstrate that information resources meet the needs of the university and the educational programs being implemented, including in the following areas:*

- *technological support for students and teaching staff in accordance with educational programs (e.g. online learning, modeling, databases, data analysis programs);*

- *library resources, including a collection of educational, methodological and scientific literature on general educational, basic and specialized disciplines on paper and electronic media, periodicals, access to scientific databases;*

- *examination of research results, graduation theses, dissertations for plagiarism;*

- *access to educational Internet resources;*

- *functioning of WI-FI on its territory.*
- *The university must demonstrate that it creates conditions for conducting scientific research, integrating science and education, and publishing the results of scientific research work by faculty, staff, and students.*
  - *The university should strive to ensure that the educational equipment and software used for mastering educational programs are similar to those used in the relevant sectors of the economy.*
  - *The leadership of the EP should demonstrate that there are procedures in place to support different groups of students, including information and consultation.*
  - *The management of the educational institution must demonstrate the existence of conditions for the student's advancement along an individual educational trajectory.*
  - *The university must take into account the needs of different groups of students (adults, working students, international students, as well as students with special educational needs).*
  - *The university must ensure that its infrastructure meets safety requirements.*

### **Evidential part**

An important factor in ensuring the quality of education and a guarantee of sustainable development of the university is the constant improvement of material, technical and human resources. The university has created conditions for students, conducting scientific research, publishing the results of research. During the work of the EEC, the experts made sure that the university has a material and technical base that ensures all types of practical training and research work of students, provided for by educational programs. The material and technical base and infrastructure of the university meet the requirements and are sufficient to achieve the goals of the educational program 8D08104- "Phytopathology Technologies".

The university buildings and structures include classrooms, laboratories and other facilities equipped with modern equipment and ensuring the achievement of the program objectives. The Department of Biology, Plant Protection and Quarantine is located in academic building No. 5 (agricultural faculty building), with a total area of 5,354.6 m<sup>2</sup>; it includes lecture halls, as well as classrooms for practical classes, a scientific and innovative center for phytopathology monitoring, laboratories, a computer class, teachers' offices, a doctoral student room; two dormitories for students No. 5 and 8 with a total area of 3,168.9 and 8,755.6 m<sup>2</sup>, which have living rooms, leisure rooms, a reading room, a canteen and a gym.

The auditorium fund includes computer classes, sports halls, a rich book fund. The auditorium fund of the department is: lecture halls for 30 or more seats; entomology laboratory - 1, phytopathology laboratory - 1 and herbology laboratory - 1, scientific and innovative center for phytopathology monitoring - 1. All the above-mentioned premises meet the requirements for conducting classes. The educational equipment used in the educational process reflects the specifics of educational programs.

In addition, the department has an Agroecological Testing Center designed to conduct research on determining soil and water pollution. List of laboratory equipment: Capillary electrophoresis system "Kapel-105M" Lumex, scales, centrifuge, laboratory muffle furnace SNOL 6/11, pH meter 827, pH Lab Metrohm, pH meter ITAN No. 49, drying cabinet, electric distiller, water bath, sand bath LOIP LH-403, analytical gas chromatograph "Kristalyuks 4000M" and others.

Students of the educational program 8D08104 "Phytopathology Technologies" have access to the use of the academic building No. 2 (the biology faculty building), academic building No. 6, which include lecture halls, classrooms for practical classes, laboratories, multimedia rooms, computer rooms, and a language laboratory.

The department has a small museum of pests and diseases of Northern Kazakhstan - the only one in the region. It presents all types of pests and diseases found in grain, leguminous and oil crops in the forest-steppe, steppe and dry-steppe zones of Kazakhstan. The basis of the exposition is a collection of harmful organisms with a detailed description of their properties. The department has a large collection and herbarium fund of weeds, and also has its own fund of living ornamental plants.



The reading rooms are equipped with modern office equipment: computers, printers, scanners. In the electronic room, students of the educational program work with electronic textbooks, an electronic catalog, Kazakh and foreign electronic resources (Thomson Reuters, Elsevier, Springer ScienceDirect, Sciverse Scopus, etc.), the electronic library of the Russian University of Electronic and Mass Communications, etc.

The material and technical support of the educational process generally corresponds to the objectives and specifics of the EP, and also facilitates the implementation of all types of laboratory, practical classes, research work of doctoral students, provided for by the working curriculum and corresponding to the current sanitary and fire safety standards and rules. The specialized educational classrooms of the department are equipped with devices, equipment, materials necessary for the educational process. The university has social support services for students, a school of advisers, a medical center, sports and cultural and health centers, student service points.

All laboratories are certified and provided with fire extinguishing equipment. Students and staff receive initial and repeated safety training when working in the laboratory. The laboratories regularly monitor the condition of communications and equipment. All laboratory premises have natural and artificial lighting. Licensed software is used for educational and research purposes.

Students of accredited educational programs have the opportunity and access to use the university's social, cultural and sports facilities.

The library is available in all academic buildings, including 4 reading rooms (in buildings No. 1; No. 6; No. 5, in hostel No. 6 and an electronic reading room. The number of seats for users of building No. 5 is 60. The reading rooms are equipped with modern office equipment: computers, printers, scanner. The university provides access to remote information resources such as Thomson Reuters, Springerlink, Scopus, electronic books from Elsevier, scientific publications from Science Direct, Russian databases from Lan Publishing House, e-Library.ru, and the University Library Online Electronic Library System. The university has its own scientific publications: Science Bulletin of KATIU named after S. Seifullin, Science Review, controlled by the Department of Science and Innovation (<http://kazatu.kz/ru/nauka-i-innovacii/nauchnie-izdaniya-katu-im-s-seyfullina/>).

The collection of additional literature is represented by official publications, reference and bibliographic publications (industry dictionaries, reference books, encyclopedias), scientific publications, electronic publications, and electronic information databases. Information about the library is available on the university website at the link <https://library.kazatu.kz/jirbis2/index.php?lang=ru>.

Every year the library fund is replenished with new educational and scientific literature in Russian, Kazakh and English. Subscriptions to periodicals (newspapers and magazines) are issued. The necessary literature is purchased upon requests from departments and faculties, according to price lists of publishing houses and bookselling organizations.

The information support of the university meets the requirements of the EP, the library contains the materials necessary for training. For the disciplines of the accredited EP, there are educational and methodological materials on electronic and magnetic media.

The institute's territory is equipped with free WI-FI.

The research and development work carried out, dissertations on the EP are checked for plagiarism. To check the final works of undergraduate students, the head of the department is given a login and password for the site <http://kazatu-kz.antiplagiat.ru/> Based on the results of the examination, a document is issued, a copy of which is kept at the department.

The public is informed about cooperation and interaction with partners within the framework of the EP, including scientific/consulting organizations, business partners, social partners and educational organizations through the university website, through announcements in the media, on social network pages. Within the framework of the accredited EP, a number of representatives of the department appeared on republican television last year, such as, D.Sc. (Biology) Sibataev A.K., Baibusenov K.S. PhD, Ph.D. (Biology), Professor Khasanov V.T., Ph.D.



(Biology) Konysbaeva D.T., Ph.D. (Agriculture) Sarmanova R.S. and others. The KATIU website contains information on financial statements: Separate financial statements for 2019-2020; Consolidated financial statements for 2022-2024; EP Development Plan (<http://kazatu.kz/ru/ob-universitete/finansovaya-otchetnost>).

The University has a Center for International Cooperation and Multilingual Education, whose main tasks include supporting and developing international activities and cooperation within the framework of the EP ([linkhttp://kazatu.kz/ru/ob-universitete/centr-razvitiya-mejdunarodnogo-sotrudnichestva-ipoli-yazichnogo-obrazovaniya](http://kazatu.kz/ru/ob-universitete/centr-razvitiya-mejdunarodnogo-sotrudnichestva-ipoli-yazichnogo-obrazovaniya)).

In general, the material, technical, information and library resources used to organize the process of training and education of students are sufficient to fulfill the stated mission, goals and objectives and meet the requirements of the implemented educational program. To assess the quality of the material, technical and information resources used in the implementation of the EP, interviews and questionnaires of students and teaching staff are conducted.

#### **Analytical part**

As a result of the visual inspection of the material base facilities, the members of the EEC note that the university has all the necessary educational and material assets to ensure the educational process of the accredited educational program. The university buildings and structures comply with current sanitary standards and fire safety requirements. During the work of the EEC, the experts made sure that the university has the material, technical, information and library resources used to organize the process of training and education of students and the implementation of the mission, goals and objectives of KATIU named after S. Seifullin.

The existing classroom facilities (lecture halls, specialized laboratories, computer rooms) of the Department of Biology, Plant Protection and Quarantine of the Agronomy Faculty meet the needs of students of the accredited educational program for classrooms. The availability of the University's material and technical base, which ensures the possibility of conducting the educational process and scientific research work, corresponding to modern requirements imposed on the university, taking into account the specifics of the implemented educational programs, proves the demand for specialists of the accredited educational program in the labor market.

As a result of the analysis of the activities of the accredited educational institution according to this standard, it can be concluded that the assessment of the completeness and availability of the material, technical and information resources of the specified educational institution has been carried out. There is a dynamics of resources and the learning environment, library support for the educational process, and the activities aimed by the educational institution management at improving the resource support for the implementation of the educational institution have been covered.

Information support for educational and scientific activities is provided at a good level with access to full-text electronic resources of educational and scientific significance, which meets the needs of students and teaching staff.

Diploma theses, master's and doctoral dissertations are checked for plagiarism using Antiplagiat programs.

The material and technical support of the educational process generally corresponds to the objectives and specifics of the EP, and also facilitates the implementation of all types of laboratory, practical classes, research work, provided for by the working curriculum and corresponding to the current sanitary and fire safety standards and rules. The specialized educational classrooms of the department are equipped with devices, equipment, materials necessary for the educational process.

**Strengths/Best Practices of the EP 8D08104 - "Phytosanitary technologies":** not identified

**Recommendations of the EEC for the EP 8D08104 - "Phytosanitary technologies":**

No

**Conclusions of the EEC on the criteria for EP 8D08104 - "Phytopsanitary technologies": strong - 0, satisfactory - 13, requiring improvement - 0**

6.9. Standard "Informing the Public"

- *The information published by the university must be accurate, objective, relevant and reflect all areas of the university's activities within the framework of the educational program.*
- *Public awareness should include support and clarification of the country's national development programs and the system of higher and postgraduate education.*
- *The university management should use a variety of methods of disseminating information (including the media, web resources, information networks, etc.) to inform the general public and interested parties.*

*Information published by the university about the educational program must be objective and up-to-date and include:*

- *the purpose and planned results of the educational program, the qualification awarded;*
- *information about the system for assessing students' academic achievements;*
- *information about academic mobility programs and other forms of cooperation with partner universities and employers;*
- *information on opportunities for developing personal and professional competencies of students and employment;*
- *data reflecting the positioning of the educational institution in the educational services market (at the regional, national, and international levels).*
- *An important factor is the publication of reliable information about the teaching staff, broken down by individuals, on open resources.*
- *The university must publish on its own web resource audited financial statements for the OP.*
- *The university must post information and links to external resources based on the results of external assessment procedures.*
- *An important factor is the placement of information on cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners and educational organizations.*

**Evidential part**

KATIUS. Seifullin strives to carry out its activities based on the principles of transparency, openness, involvement and public awareness.

The purpose of informing the public is to form a positive image of the university in the external environment, establish and maintain cooperation with all interested parties. Assessment of satisfaction with information about the activities of the university, the specifics and progress of the implementation of educational programs is carried out annually by questionnaires, surveys, feedback, and also through the rector's blog.

The main channel for informing the public (applicants, their parents, students, graduates and employers) is the official website of the university. [www.kazatu.kz](http://www.kazatu.kz) (presented in Kazakh, Russian and English), which is intended for both external and internal use.

The university management uses various methods of disseminating information in addition to the university website, such as briefings, round tables held by the management, open days, job fairs at the university, meetings with graduates, and career guidance work in schools and colleges in Astana and the regions of Kazakhstan. The faculty and employees of the University are involved in holding events at the regional level. Official pages in social networks (Instagram, VKontakte, Twitter, Facebook, YouTube channel) are widely used to disseminate information. Information about significant events held by the university is published in national, regional and city media. The articles contain information about the university's comprehensive work to improve the educational services provided, the implementation of the main directions of the "100 Concrete Steps" program and the Strategic Directions for the Development of the University.

The department's teachers annually give visiting lectures to students of district, city and regional schools and colleges. The department has a stand informing about the specifics of the specialty, the results and achievements of the EP.

Effective feedback with students is carried out through the feedback service on the personal pages of students, the teaching staff in the educational portal of the university <http://platonus.kazatu.kz/>, where they gain access to the academic calendar, the curriculum for their program and the formation of an individual curriculum (information about disciplines and teachers), to information resources and databases of the university library, and educational materials provided by teachers on the disciplines studied.

Upon completion of the academic period, students receive complete information about their academic performance (transcript).

During the scheduled meetings, the members of the EEC found that in order to establish feedback with students and employers, reception on personal and other issues is carried out by the heads of the university, deans and heads of departments at established hours.

To inform applicants, information stands, posters, and banners are placed in all buildings of the university. An "Open Day" is held on a regular basis.

On the university website, follow the link <http://kazatu.kz/ru/ob-universitete/finansovaya-otchetnost/> Audited financial statements published.

External evaluation of the university and accredited educational programs is carried out through accreditation procedures and participation in national and international rankings <http://kazatu.kz/ru/ob-universitete/dostijeniya-universiteta-v-reytingah/>.

#### **Analytical part**

The EEC notes that in the area of information dissemination policy, S. Seifullin KATIU demonstrates a policy of transparency, openness, involvement in informing the public of applicants, employers, participants in the educational process and all interested parties, continuous development and adaptability to the changing realities of society. The management of the EP uses mass media and social networks to disseminate information. The website publishes information about the activities of the university, financial statements. The university, accredited educational programs take part in national and international rankings. The results of the external examination are posted on the university website <http://kazatu.kz/ru/ob-universitete/akkreditaciya/>.

Assessment of satisfaction with information about the university's activities, the specifics and progress of the EP implementation is carried out annually through questionnaires and surveys of interested parties. On the university's website operates the "Rector's Blog," where anyone can ask a question to the university's top leader and receive an answer.

Based on the analysis of the information presented on the website, the VEC notes that the results of the university's activities are reflected in sufficient volume. In connection with the creation of a national register of educational programs, experts note the need to supplement the site with objective information on changes in the EP. Submission of information on learning outcomes, compliance of the EP with the National Qualifications System, assessment procedures and educational opportunities provided to students, on the teaching staff (courses taught, publications, their scientific interests) is carried out regularly.

According to the survey results, students are completely satisfied with:

- "accessibility of computer classes" – 81.8% (54 people);
- "student lounges" – 72.8% (48 people);
- "information about courses, educational programs and academic degrees" – 90.9% (60 people).

**Strengths/Best Practices for EP 8D08104 - "Phyosanitary technologies":** not identified

**Recommendations of the VEC for EP 8D08104 - "Phyosanitary technologies":**

-

**Conclusions of the EEC on the criteria for EP 8D08104 - "Phytosanitary technologies": strong - 0, satisfactory - 12, requiring improvement - 0**





## **(VII) REVIEW OF STRENGTHS/BEST PRACTICES FOR EACH STANDARD**

Education Programme Management standard:  
Not identified

Standard 'Information Management and Reporting':  
Not identified

Standard 'Development and approval of the educational programme':  
Not identified

Standard 'Continuous monitoring and periodic evaluation of educational programmes':  
Not identified

Standard 'Student-centred learning. Teaching and Assessment of Learning':  
Not identified

Standard 'Learners':  
Not identified

Faculty Standard:

Involvement of professionals from industries with high professional competencies in teaching.

Educational Resources and Student Support Systems Standard:  
Not identified

Public Awareness Standard:  
Not identified

## **(VIII) OVERVIEW OF RECOMMENDATIONS FOR QUALITY IMPROVEMENT FOR EACH STANDARD**

Standard 'Management of the educational programme'

VEC recommendations for OP 8D08104- 'Phytosanitary technologies':

- OP management to develop criteria in the framework of quality assurance in the implementation of joint/dual degree education and academic mobility by 1 April 2025.

Standard 'Information Management and Reporting'

VEC recommendations for OP 8D08104- 'Phytosanitary technologies':

- HEI management, taking into account the peculiarities and specifics of the OP, to define key performance and efficiency indicators, to establish and document the procedure for their collection, analysis and application. Term till 30.09.2025

Standard 'Development and Approval of Educational Programme'

VEC recommendations for OP 8D08104- 'Phytosanitary technologies':

- To the OP management to include in the Work Plans of collegial management bodies the issue on definition and necessity of development of joint educational programmes with foreign higher education institutions within the term till 30.12.2025.

Standard 'Continuous monitoring and periodic evaluation of educational programmes'.

VEC recommendations for OP 8D08104- 'Phytosanitary technologies':

- To the OP management to develop a mechanism to determine the effectiveness of assessment procedures for OP students by 1 September 2025.

Standard 'Student-centred learning, teaching and learning assessment'

VEC recommendations for OP 8D08104- 'Phytosanitary technologies':

- The OP management to develop the Plan of professional development of teaching staff in the framework of mastering modern methods of assessment of learning outcomes by the beginning of 2025-2026 academic year.

- The management of OP to define KPI indicators in the part of development of own teaching methods by December 2025.

- The management of the OP on a permanent basis annually include in the plans of meetings of the departments the issues of qualitative assessment of learning outcomes, the effectiveness of measuring the achievements of the coverage of learning outcomes.

Standard 'Learners'

Recommendations of VEC for OP 8D08104- 'Phytosanitary technologies':

- The management of the OP to develop a mechanism to expand external and internal academic mobility, as well as to define activities for obtaining external grants by the trainees. Deadline by 1 September 2025.

- HEI management to ensure transparency of the HEI Alumni Association through information support and coverage in social networks, HEI website and mass media. Annually develop and approve the plan of activities of the Alumni Association, taking into account their participation in the development and updating of the EP and their development plans. Term: on a permanent basis.

Standard 'Teaching staff'

Recommendations of VEC for OP 8D08104- 'Phytosanitary technologies':

- The management of the OP to develop an Action Plan for the development of academic mobility of the teaching staff. Deadline till 1 November 2025.

Standard 'Public Awareness'

- To the OP Management in order to inform the stakeholders in a timely manner, to systematically provide information on the results of the OP activities. Deadline on an ongoing basis.

Standard 'Educational resources and student support systems'.  
- Absent

Standard 'Public Awareness': not identified  
- None



**(IX) RECOMMENDATION TO THE ACCREDITATION COUNCIL**

The members of the external expert commission came to the unanimous opinion that the educational programme 8D08104 - 'Phytosanitary Technologies', implemented by NAO 'Kazakh Agrotechnical Research University named after S. S. S. Kuznetsov'. C. Seifullin' can be accredited for 5 years.





### Appendix 1. Parameters of specialised profile.

Conclusion of the external expert commission on quality assessment of educational programme 8D08104 - 'Phytosanitary technologies' NAO 'Kazakh Agrotechnical Research University named after S.Seyfullin'.

	№ п\п	Evaluation criteria	Position of the education organisation			
			Satisfactory	Satisfactory	Suggests improvement	Unsatisfactory
<b>1. Standard 'Education Programme Management'</b>						
1	1	The HEI should demonstrate the development of the purpose and strategy of the EP development based on the analysis of external and internal factors with wide involvement of diverse stakeholders		+		
2	2	The quality assurance policy should reflect the link between research, teaching and learning		+		
3	3	The HEI demonstrates the development of a quality assurance culture		+		
4	4	The commitment to quality assurance should relate to any activities carried out by contractors and partners (outsourcing), including in the implementation of co-diploma/diploma education and academic mobility			+	
5	5	The EP management ensures transparency of the EP development plan elaboration based on the analysis of its functioning, real positioning of the HEI and orientation of its activity to meet the needs of the state, employers, stakeholders and learners		+		
6	6	The management of the EP demonstrates the functioning of mechanisms of formation and regular revision of the EP development plan and monitoring of its implementation, assessment of the achievement of learning objectives, compliance with the needs of students, employers and society, decision-making aimed at continuous improvement of the EP		+		
7	7	The EP management should involve representatives of stakeholder groups, including employers, learners and teaching staff in the formation of the EP development plan.		+		
8	8	The EP management should demonstrate the individuality and uniqueness of the EP development plan, its consistency with the national development priorities and the development strategy of the educational organisation.		+		
9	9	The HEI is obliged to demonstrate a clear definition of those responsible for business processes within the OP, distribution of		+		

		staff job responsibilities, delineation of functions of collegiate bodies				
10	10	The management of the EP ensures coordination of the activities of all persons involved in the development and management of the EP and its continuous implementation, as well as involves all stakeholders in this process		+		
11	11	The management of the MA shall ensure the transparency of the management system, the functioning of the internal quality assurance system, including its design, management and monitoring, and appropriate decision-making.		+		
12	12	The management of the MA shall carry out risk management		+		
13	13	The EP management should ensure the participation of representatives of stakeholders (employers, teaching staff, students) in the collegial bodies of the educational programme management, as well as their representativeness when making decisions on the issues of the educational programme management.		+		
14	14	The HEI is obliged to demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals		+		
15	15	The management of the EP should demonstrate its openness and accessibility for students, faculty, employers and other stakeholders		+		
16	16	The management of the EP confirms the completion of training in educational management programmes		+		
17	17	The OP management shall endeavour to ensure that the progress made since the last external quality assurance procedure is taken into account in preparation for the next procedure		+		
<b>Total for the standard</b>			<b>0</b>	<b>16</b>	<b>1</b>	
<b>2. Standard 'Information Management and Reporting'</b>						
18	1	The University is obliged to ensure the functioning of the system of collection, analysis and management of information on the basis of modern information and communication technologies and software tools		+		
19	2	The management of the HEI demonstrates systematic use of processed, adequate information to improve the internal quality assurance system		+		
20	3	3. The EP management demonstrates the existence of a reporting system reflecting the activities of all structural subdivisions and departments within the framework of the EP, including the evaluation of their performance		+		
21	4	The HEI is obliged to determine the frequency, forms and methods of evaluation of the EP management, activities of collegiate bodies and structural units, top management		+		
22	5	The University is obliged to demonstrate the mechanism of information protection, including the identification of responsible persons for the reliability and timeliness of		+		

		information analysis and data provision				
23	6	The university demonstrates the involvement of students, employees and faculty in the processes of collecting and analysing information, as well as decision-making on their basis		+		
24	7	The management of the EP should demonstrate the existence of mechanisms of communication with students, employees and other stakeholders, including conflict resolution		+		
25	8	The HEI is obliged to ensure the measurement of the degree of satisfaction of the needs of the teaching staff, staff and learners within the framework of the EP and demonstrate evidence of eliminating the identified shortcomings		+		
26	9	The HEI should assess the efficiency and effectiveness of activities, including in the context of the OPs		+		
		The information collected and analysed by the HEI within the framework of the OP should take into account:				
27	10.	key performance indicators			+	
28	11.	dynamics of the contingent of students in the context of forms and types of education		+		
29	12.	level of academic performance, student achievements and dropouts		+		
30	13.	satisfaction of students with the implementation of the OP and the quality of education at the HEI		+		
31	14.	accessibility of educational resources and support systems for students		+		
32	15.	employment and career development of graduates		+		
33	16.	Students, staff and teaching staff should document their consent to the processing of personal data		+		
34	17.	The management of the OP should facilitate the provision of all necessary information in the relevant fields of sciences		+		
<b>Total for the standard</b>			<b>0</b>	<b>16</b>	<b>1</b>	
<b>3. Standard 'Development and Approval of Educational Programme'</b>						
35	1.	The HEI is obliged to demonstrate the existence of a documented procedure for the development of the OP and its approval at the institutional level		+		
36	2.	The HEI is obliged to demonstrate compliance of the developed EP with the established objectives and planned learning outcomes		+		
37	3.	The management of the OP should determine the influence of disciplines and professional practices on the formation of learning outcomes		+		
38	4.	The HEI can demonstrate the availability of the OP graduate model describing learning outcomes and personal qualities		+		
39	5.	The qualification awarded upon completion of the OP should be clearly defined, explained and correspond to a certain level of the NSC, QF-EHEA		+		

40	6.	The OP management should demonstrate the modular structure of the programme based on the European Credit Transfer and Accumulation System (ECTS), ensure that the OP, its modules (in terms of content and structure) are in line with the set objectives with a focus on achieving the intended learning outcomes.		+		
41	7.	The management of the OP should ensure that the content of academic disciplines and learning outcomes correspond to each other and to the level of study (bachelor's, master's, doctoral studies)		+		
42	8.	The OP management should demonstrate the implementation of external expertise of the OP		+		
43	9.	The EP management should provide evidence of the participation of students, teaching staff and other stakeholders in the development of the EP, ensuring its quality		+		
44	10.	The EP management should demonstrate the positioning of the EP in the educational market, (regional/national/international), its uniqueness		+		
45	11.	Важным фактором является возможность подготовки обучающихся к профессиональной сертификации		+		
46	12.	Важным фактором является наличие дублированной ОП и/или совместных ОП с зарубежными вузами			+	
<b>Total for the standard</b>			<b>0</b>	<b>11</b>	<b>1</b>	
<b>4. Standard 'Continuous monitoring and periodic evaluation of educational programmes'</b>						
47	1	The HEI should ensure the revision of the content and structure of the EP taking into account the changes in the labour market, employers' requirements and social demand of the society		+		
48	2	The HEI is obliged to demonstrate the existence of a documented procedure for monitoring and periodic evaluation of the EP in order to achieve the EP goal. The results of these procedures are aimed at continuous improvement of the EP		+		
		Monitoring and periodic evaluation of the OP should consider:				
49	3	The content of programmes in the context of the latest achievements of science and technology in a particular discipline		+		
50	4	. changes in the needs of society and professional environment		+		
51	5	workload, progress and graduation of students		+		
52	6	the effectiveness of learner assessment procedures			+	
53	7	needs and satisfaction of students		+		
54	8	the relevance of the educational environment and support services to the objectives of the OP		+		
55	9	All stakeholders must be informed of any planned or undertaken actions in relation to the OP. All changes made to the OP should be publicised.		+		



56	10	Support services should identify the needs of different groups of learners and their satisfaction with the organisation of learning, teaching, assessment, learning of the OP as a whole.		+		
<b>Total for the standard</b>			<b>0</b>	<b>9</b>	<b>1</b>	
<b>5. Standard 'Student-centred learning, teaching and assessment of learning'</b>						
57	1	The management of the OP should ensure respect and attention to different groups of students and their needs, providing them with flexible learning trajectories		+		
58	2	The EP management should ensure teaching on the basis of modern achievements of world science and practice in the field of training, the use of various modern methods of teaching and evaluation of learning outcomes, ensuring the achievement of EP goals, including competences, skills to perform scientific work at the required level		+		
59	3	The management of the OP should determine the mechanisms of distribution of the study load of students between theory and practice within the framework of the OP, ensuring the mastery of the content and achievement of the goals of the OP by each graduate		+		
60	4	An important factor is the presence of own research in the field of teaching methodology of OP disciplines			+	
61	5	The university should ensure the compliance of the procedures for assessment of learning outcomes with the planned results and objectives of the OP		+		
62	6	The University is obliged to ensure consistency, transparency and objectivity of the mechanism of assessment of learning outcomes of the OP. Criteria and methods of assessment of learning outcomes should be published in advance		+		
63	7	Evaluators must be familiar with modern methods of learning outcomes assessment and regularly improve their qualification in this area			+	
64	8	The OP management should demonstrate the existence of a feedback system on the use of different teaching and learning outcomes assessment methods			+	
65	9	The OP leadership must demonstrate support for learner autonomy while being guided and assisted by the instructor		+		
66	10	RP management must demonstrate that a procedure is in place to respond to learner complaints		+		
<b>Total for the standard</b>			<b>0</b>	<b>7</b>	<b>3</b>	
<b>6. Standard 'Learners'</b>						
67	1	The HEI is obliged to demonstrate the policy of forming the contingent of students and ensure the transparency of its procedures. The procedures regulating the life cycle of students (from enrolment to completion) should be defined, approved, published		+		
68	2	The management of the OP should provide for special adaptation and support programmes for new entrants and international students		+		

69	3	The HEI must demonstrate compliance of its actions with the Lisbon Recognition Convention, including the existence and application of a mechanism to recognise the results of academic mobility of students, as well as the results of additional, formal and non-formal training		+		
70	4	The University is obliged to provide opportunities for external and internal academic mobility of students, as well as to assist them in obtaining external grants for training			+	
71	5	The university should actively encourage students to self-education and development outside the main programme (extracurricular activities)		+		
72	6	An important factor is the existence of a mechanism to support gifted students		+		
73	7	The HEI should demonstrate cooperation with other educational organisations and national centres of the 'European Network of National Information Centres for Academic Recognition and Mobility/National Academic Recognition Information Centres' ENIC/NARIC in order to ensure comparable recognition of qualifications		+		
74	8	The HEI is obliged to provide students with internship places, demonstrate the procedure for facilitating the employment of graduates, liaising with them		+		
75	9	The HEI is obliged to demonstrate the procedure of issuing to the graduates the documents confirming the obtained qualification, including the achieved learning outcomes		+		
76	10	The EP management is obliged to demonstrate that the graduates of the programme have skills that are in demand on the labour market and that these skills are really in demand on the labour market		+		
77	11	The programme management must demonstrate that there is a mechanism for monitoring the employment and professional activity of the graduates		+		
78	12	An important factor is the existence of an active alumni association/association		+		
<b>Total for the standard</b>			<b>0</b>	<b>11</b>	<b>1</b>	
<b>7. Standard 'Faculty of professors and teaching staff'</b>						
79	1	HEI should have an objective and transparent personnel policy in the context of the OP, including recruitment (including invited faculty members), professional growth and development of staff, ensuring professional competence of the entire staff		+		
80	2	The HEI should demonstrate the compliance of the qualitative composition of the teaching staff with the established qualification requirements, HEI strategy, and the objectives of the OPs		+		
81	3	The EP management should demonstrate the change of the teacher's role in connection with the transition to student-centered learning and teaching		+		
82	4	The HEI should provide opportunities for career growth and professional development of the teaching staff, including		+		

		young teachers.				
83	5	The university should attract to teaching specialists from relevant industries with professional competencies that meet the requirements of the EP	+			
84	6	The university is obliged to demonstrate the existence of a mechanism of motivation for professional and personal development of the faculty members		+		
85	7	The university is obliged to demonstrate a wide application of information and communication technologies and software tools in the educational process (e.g. on-line learning, e-portfolio, MOOCs, etc.) by the teaching staff.		+		
86	8	The university is obliged to demonstrate the focus of activities on the development of academic mobility, attracting the best foreign and domestic teachers		+		
87	9	The university should demonstrate the involvement of each faculty member in promoting the culture of quality and academic integrity in the university, determine the contribution of the teaching staff, including those invited, to the achievement of the objectives of the EP/.		+		
88	10	An important factor is the involvement of the teaching staff in the development of the economy, education, science and culture of the region and the country		+		
<b>Total for the standard</b>			<b>1</b>	<b>9</b>	<b>0</b>	
<b>8. Standard “Educational Resources and Student Support Systems”</b>						
89	1.	The HEI must guarantee the compliance of educational resources, including material and technical, and infrastructure with the objectives of the educational program		+		
90	2.	The EP management must demonstrate the availability of classrooms, laboratories and other facilities equipped with modern equipment and ensuring the achievement of the EP objectives		+		
		The HEI must demonstrate the compliance of information resources with the needs of the HEI and the implemented OP, including the following areas:				
91	3.	technological support for students and teaching staff in accordance with educational programs (e.g., online learning, modeling, databases, data analysis programs)		+		
92	4.	library resources, including the fund of educational, methodological and scientific literature on general education, basic and specialized disciplines on paper and electronic media, periodicals, access to scientific databases		+		
93	5.	expert examination of the results of research, graduate works, dissertations for plagiarism.		+		
94	6.	access to educational Internet resources		+		
95	7.	functioning of WI-FI on its territory		+		
96	8.	The university should demonstrate that it creates conditions for conducting scientific research, integration of science and education, publication of the results of research work of faculty, staff and students		+		

97	9.	The university should strive to ensure that the educational equipment and software tools used to master educational programs are similar to those used in relevant sectors of the economy		+		
98	10.	The EP management must demonstrate the existence of procedures for supporting different groups of learners, including information and counseling		+		
99	11.	The management of the OP must demonstrate the presence of conditions for the advancement of the student on an individual educational trajectory		+		
100	12.	The university is obliged to take into account the needs of different groups of students (adults, working, foreign students, as well as students with special educational needs)		+		
101	13	The university must ensure the compliance of the infrastructure with safety requirements		+		
<b>Total for the standard</b>			<b>0</b>	<b>13</b>	<b>0</b>	
<b>9. Standard "Public Awareness"</b>						
102	1.	The information published by the HEI should be accurate, objective, relevant and reflect all areas of HEI activity within the framework of the educational program		+		
103	2.	public information should support and explain the national development programs of the country and the system of higher and postgraduate education		+		
104	3.	The HEI management should use various ways of information dissemination (including mass media, web resources, information networks, etc.) to inform the general public and interested parties.		+		
		Information published by the HEI about the educational program should be objective and up-to-date and include:				
105	4.	the purpose and planned results of the program, the qualification to be awarded		+		
106	5.	information about the system of evaluation of students' academic achievements		+		
107	6.	information about academic mobility programs and other forms of cooperation with partner universities and employers		+		
108	7.	information about the opportunities for the development of personal and professional competencies of students and employment		+		
109	8.	data reflecting the positioning of the EP in the market of educational services (at the regional, national, international levels)		+		
110	9.	An important factor is the publication on open resources of reliable information about the teaching staff, in the context of personalities		+		
111	10.	The university should publish on its own web-resource the audited financial statements on the OPs		+		
112	11.	The University is obliged to place information and links to external resources on the results of external evaluation procedures		+		
113	12.	An important factor is the placement of information on cooperation and interaction with partners, including		+		



	scientific/consulting organizations, business partners, social partners and educational organizations				
<b>Total for the standard</b>		<b>0</b>	<b>12</b>	<b>0</b>	
<b>BCEFO</b>		<b>1</b>	<b>104</b>	<b>8</b>	

