



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR
ACCREDITATION AND RATING

REPORT

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

6B08702 "Energy supply and automation of agriculture"

6B07108 "Automation and energy efficiency of processes and production"

7M07105 "Control of technical systems (2 y.)"

8D08703 "Energy supply and automation of agriculture"

JSC "Kazakh Agrotechnical Research University named after S.Seifullin"
in the period from October 29 to October 31, 20 24

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
External Expert Commission

Addressed to
Accreditation
IAAR Council



«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 commission for evaluation
for compliance with the requirements of standards for specialized accreditation of
educational programs**

6B08702 "Energy supply and automation of agriculture"

6B07108 "Automation and energy efficiency of processes and production"

7M07105 "Control of technical systems (2 y.)"

8D08703 "Energy supply and automation of agriculture"

**JSC "Kazakh Agrotechnical Research University named after S.Seifullin"
in the period from October 29 to October 31, 20 24.**

"31" October 2024

Astana city

Content

(I) LIST OF SYMBOLS AND ABBREVIATIONS	3
(II) INTRODUCTION	5
(III) PRESENTATION OF THE EDUCATIONAL ORGANIZATION	7
(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE	8
(V) DESCRIPTION OF THE VEC VISIT	9
(VI) COMPLIANCE WITH SPECIALISED ACCREDITATION STANDARDS	11
<i>6.1. Standard "Educational Program Management"</i>	<i>11</i>
<i>6.2. Standard "Information Management and Reporting"</i>	<i>15</i>
<i>6.3. Standard "Development and approval of the educational program"</i>	<i>18</i>
<i>6.4. Standard "Continuous monitoring and periodic evaluation of educational programs "</i>	<i>21</i>
<i>6.5. Standard "Student-centered learning, teaching and assessment of academic performance"</i>	<i>24</i>
<i>6.6. Standard "Students"</i>	<i>26</i>
<i>6.7. Standard "Teaching staff"</i>	<i>31</i>
<i>6.8. Standard "Educational resources and student support systems"</i>	<i>35</i>
<i>6.9. Standard "Informing the Public"</i>	<i>38</i>
(VII) OVERVIEW OF STRENGTHS/BEST PRACTICES FOR EACH STANDARD	41
(VIII) OVERVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS FOR EACH STANDARD	42
(IX) RECOMMENDATION TO THE ACCREDITATION COUNCIL.....	44
Appendix 1. Evaluation table "Conclusion of the external expert commission"	45

(I) LIST OF SYMBOLS AND ABBREVIATIONS

ECTS	- European Credit Transfer and System
SWOT	- Strengths Weakness Opportunities Threats
QS	- Quacquarelli Symonds
AIS	- Automated information system
AIC	- Agro-industrial complex;
AK	- Academic calendar
JSC	- Joint Stock Company
BD	- Basic disciplines
VK	- University component
VR	- Educational work
VUZ	- Higher Education Institution
EEC	- External Expert Commission
AK	- Certification Commission
GOSO	- State Compulsory Education Standard
DOT	- Distance Educational Technologies
UNT	- Unified National Testing
IGA	- Final State Control
IR	- Final control
ICT	- Information and Communication Technologies
IUP	- Individualized curriculum
KATIU	- Kazakh Agrotechnical Research University named after S.Seifullin
KV	- Component of choice
KKSON	- Committee for Control in the Sphere of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan
CT	- Comprehensive testing
CTA	- Comprehensive testing of applicants
WHO	- Credit technology of education
KED	- Catalog of Elective Disciplines
ILB	- Interlibrary Loan
MON RK	- Ministry of Science and Higher Education of the Republic of Kazakhstan
MAS RK	- Ministry of Agriculture of the Republic of Kazakhstan
MEP	- Modular Educational Program
MUP	- Modular curriculum
OP	- Educational program
IAAR	- INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
NII	- Scientific Research Institute
R&D	- Scientific research work
NIRS	- Scientific research work of students
NQF	- National Qualifications Framework
OK	- Mandatory component
OOD	- General Education Disciplines
OP	- Educational program
OR	- Registration Office
SQF	- Sectoral Qualifications Framework
PD	- Major disciplines
PPS	- Teaching staff
RIO	- Editorial and Publishing Department
RK	- Republic of Kazakhstan
RMEB	- Republican Interuniversity Electronic Library
RUP	- Working curriculum

Media	- Mass Media
QMS	- Quality Management System
SRO	- Independent work of the student
SRS	- Independent work of students
SRSP	- Independent work of students under the guidance of a teacher
SED	- Electronic Document Management System
TC	- Current control
TiPO	- Technical and vocational education
TiMPO	- Theory and Methodology of Professional Training
TUP	- Standard Curriculum
UVP	- Educational and support personnel
UMK	- Educational and methodological complex
UMKD	- Educational and methodological complex of the discipline
UMKS	- Educational and methodological complex of the OP
UMS	- Educational and Methodological Council
UP	- Curriculum
US	- Academic Council
TSOR	- Digital educational resource
CPM	- Center of Pedagogical Excellence
EUMKD	- Electronic educational and methodological complex of the discipline



(II) INTRODUCTION

In accordance with the order of the Independent Agency for Accreditation and Rating No. 144-24-OD dated September 13, 2024, the visit of the external expert commission (hereinafter referred to as the EEC) to the S. Seifullin Kazakh Agrotechnical Research University, Astana, took place From October 29 to October 31, 2024, in accordance with this order, within the framework of Cluster 1 , an assessment was carried out of OP " 6B08702 Energy supply and automation of agriculture", OP "6B07108 Automation and energy efficiency of processes and production", OP "7M07105 Control of technical systems(2 years)", OP "8D08703 Energy supply and automation of agriculture" 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 Agrotechnical Research University within the framework of specialized accreditation with the IAAR criteria, and the EEC recommendations for further improvement of the parameters of the specialized profile.

Composition of the VEC:

Chairman of the EEC - Akybaeva Gulvira Sovetbekovna, Ph.D., Astana IT University (Astana); Off-line participation

IAAR Foreign Expert – Vorontsov Alexander Sergeevich, PhD in Engineering, Associate Professor, Yanka Kupala State University of Grodno (Grodno, Belarus); On - line participation

IAAR Foreign Expert – Nastasenکو Vyacheslav, PhD , Associate Professor, Technical University of Moldova (Chisinau, Moldova); On - line participation

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

IAAR expert – Vadim Pavlovich Markovsky , PhD in Technical Sciences, Associate Professor, Toraighyrov University (Pavlodar); Off - line participation

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

IAAR expert – Kegenbekov Zhandos Kadyrkhanovich, PhD in Technical Sciences, Associate Professor, Kazakh-German University (Almaty); Off - line participation

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

IAAR Expert – Ibadullaeva Saltanat Zharylkasymovna, 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 University of Engineering and Technology (Almaty); Off - line participation

IAAR Expert, employer - Abdikadirova Akniet Maratovna, head of the human capital development department of the Chamber of Entrepreneurs "Atameken" (Shymkent); On - line participation

IAAR Expert, employer - Pilipenko Yuriy Aleksandrovich, Chairman of the Board of Directors, International Association of Manufacturers of Goods and Services "EXPOBEST" (Almaty); On - line participation

IAAR expert, student – Podgorny Grigory Dmitrievich, 3rd year student of OP 6B07112 Transport, transport engineering 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 OP 6B07101 "Electric Power Engineering", Almaty University of Power Engineering and Telecommunications named after Gumarbek Daukeev (Almaty); On - line participation

IAAR expert, student - Pozdnyakov Roman Evgenievich, 3rd year student of the OP Transport, transport engineering and technology, North Kazakhstan University named after M. Kozybayev (Petropavlovsk); *On-line participation*

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

IAAR expert, student - Laiykova Asima Arturovna, 4th year student of OP 6 B 07102 "Automation and Control", NAO "L.N. Gumilyov Eurasian National University" (Astana); *On - line participation*

IAAR expert, student – Vladimir Sergeevich Tsymbal, 3rd year student of OP 6B07101 Mechanical Engineering, M. Kozybayev North Kazakhstan University (Petropavlovsk); *On-line participation*

IAAR EEC Coordinator - Bekenova Dinara Kairbekovna, project manager IAAR (Astana).



(III) PRESENTATION OF THE EDUCATIONAL ORGANIZATION

Non-profit joint-stock company "Kazakh Agrotechnical Research University named after S. Seifullin" (hereinafter - KATIU) is the largest university in Central and Northern Kazakhstan in the agricultural sector.

Founded in 1957 as the Akmola Agricultural Institute. Over 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 nine faculties and 37 departments. Over 12 thousand students, master's degree students, and doctoral students study at the university's nine faculties in 52 bachelor's degree programs, 51 master's degree programs, and 33 PhD degree programs. More than 33 percent of educational programs are innovative or double-degree. In the current 2024-2025 academic year, the university has introduced post-doctoral studies.

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

Position in the QS Asia University Rankings is 351. Among the best universities in Central Asia, our university ranks 19th.

In 2023, the university underwent its first audit by the British rating agency Quacquarelli Symonds, according to the results of which it was awarded an overall high rating of 4 stars.

The university's position in the QS World Sustainability Rankings is 1051, and according to the sustainable development goal "Impact on the environment", KATIU ranks 535th.

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 the TOP-20 Universities of the Republic of Kazakhstan in 2024, conducted annually by the Independent Agency for Accreditation and Rating (IAAR), the S. Seifullin Kazakh Agrotechnical Research University entered the top three best universities in the Republic of Kazakhstan.

Kazakh Agrotechnical Research University named after S. Seifullin is a leader in the field of training specialists in the agro-industrial complex of the country and is an actively developing higher education 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).

KATIU's mission 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 that provides social support to students. The university offers discounts on tuition, supports gifted students from low-income and large families, orphans, children with disabilities and special needs.

Currently, the number of students at the university is: 12,847 Bachelor's degree students - 12,287, Master's degree students - 369, Doctoral students - 191.

Within the framework of the accredited programs, the contingent is: 6B08702 - Energy supply and automation of agriculture - 93; 6B07108 - Automation and energy efficiency of processes and production - 352; 7M07105 - Control of technical systems- 5; 8D08703 - Energy supply and automation of agriculture - 2.

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

Within the framework of the accredited educational programs, the teaching staff is: 6B07108 - Automation and energy efficiency of processes and production - 55; Energy supply and

automation of agriculture - 63; 7M07105 Control of technical systems- 12; 8D08703 Energy supply and automation of agriculture - 5.

From January 1, 2023, the journal "Bulletin of Science of the Kazakh Agrotechnical Research University named after S.Seifullin" was transformed by dividing the journal into two series:

- "Bulletin of Science of the Kazakh Agrotechnical Research University named after S. Seifullin: Interdisciplinary";

- "Bulletin of Science of the Kazakh Agrotechnical Research University named after S. Seifullin: Veterinary Sciences".

The aim of creating a new series on veterinary sciences is the gradual inclusion of the journal in the international Scopus database.

As part of the training of PhD doctors, the university has dissertation councils in certain areas:

1) Dissertation council for the field of study 8D082 - Animal Husbandry: 8D08201 - Animal Science (6D080200 - Technology of Livestock Product Production);

2) Dissertation council for the field of study 8D075 "Standardization, certification and metrology (by industry)": 8D07501 - Standardization and product quality management (6D073200-Standardization and certification);

3) Dissertation council for the field of study D091 - "Veterinary Science": 8D09101 - "Veterinary Welfare of Animals" (6D120100 - "Veterinary Medicine") / 8D09102 - "Sanitary and Epidemiological Welfare of Livestock Products" (6D120200 - "Veterinary Sanitation");

4) Dissertation council for the areas of training 8D081 - "Agronomy" and 8D083 - "Forestry": 8D08101 Genetics and breeding of agricultural crops / 8D08102 Organic farming (6D080100 Agronomy) / 8D08103 Scientific basis of plant nutrition and fertilizer application (6D080800 Soil science and agrochemistry) / 8D08104 Phytosanitary technologies (6D081100 Plant protection and quarantine) / 8D08301 Sustainable management of forest resources (6D080700 Forest resources and forestry);

5) Dissertation council for the field of study 8D073 – Architecture and Construction: 8D07301 – “Architecture”, 8D07302 – “Geodesy”, 8D07303 – “Cadastre” and 8D07304 – “Land Management”;

6) Dissertation council for the field of study 8D061-Information and Communication Technologies: 8D06101-Big Data Analytics; 8D06103-Modeling and Optimization of Business Processes; 8D06102-Systems Engineering (6D070300 – Information Systems);

7) Dissertation council for the field of study 8D072 “Production and manufacturing industries”: 8D07201 Food technology, (6D072700-Food technology, 6D072800-Technology of processing industries).

The university creates conditions for the active development of innovative activities. One of the university's tasks is to assist scientists in implementing innovative projects in the following scientific areas: plant growing, agriculture, agrochemistry and soil science, plant protection; microbiology, veterinary science and animal husbandry; biotechnology of plants and animals; land management, mechanization and electrification of agriculture. Currently, the university's database contains more than 40 projects at various stages of research.

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

(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

The University passed institutional and specialized accreditation in the Independent Agency for Accreditation and Rating (IAAR) in 2019.

Educational programs 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture are accredited by the Agency for 5 years.

(V) DESCRIPTION OF THE VEC VISIT

The work of the EEC was carried out on the basis of the Visit Program using a hybrid model of the expert commission for 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 introductory online meeting was held on October 24, 2024, during which powers were distributed among the members of the commission, the schedule of the visit was clarified, and a list of documents for request to the university was agreed upon.

In accordance with the requirements of the standards, the visit program included meetings with the Chairman of the Board-Rector of NAO "KATIU", vice-rectors, heads of structural divisions, graduates and employers, interviews and questionnaires for the teaching staff and students. Information from various focus groups is presented in Table 1.

During the visual inspection of the university and the accredited educational institutions, the members of the EEC became familiar with the state of the university's material and technical base, visited the library, departments, structural divisions, laboratories, specialized rooms, computer labs, training laboratories, and practice bases.

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

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

Category of participants	Quantity
Chairman of the 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 students	61
Graduates	36
Employers	34
Total	214

In accordance with the accreditation procedure, a survey of 56 teachers and 66 students was conducted.

In order to confirm the information presented in the Self-Assessment Report, external experts requested and analyzed the university's working documentation. In addition, the experts studied the university's online positioning 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 on October 31, 2024.

During the visit, the VEC experts visited the practice bases for the accredited programs: Astana Electrotechnical Plant LLP, Astana-REC JSC and other facilities.

The program included scheduled class visits.

Within the framework of OP 6B08702 - "Energy supply and automation of agriculture", classes were attended on the subject "Digital and microprocessor technology" (10/31/2024 -

room 1209, lecture, time 12-00 to 12-50 o'clock, group 08-183--23-21 Russian group, teacher Iztleuov N.N.), on the subject "Electrical engineering theory of electricity " (10/31/2024 - room 1225, lecture, time 11-00 to 11-50 o'clock, group 08-183--23-20 Kazakh group, teacher Turkebaeva Z.T.)

The events planned during the visit of the NAAR EEC contributed to the detailed familiarization of experts with the educational infrastructure of the university, material and technical resources, faculty and staff, students, master's students, doctoral students, representatives of employers, and graduates. These meetings allowed the EEC member 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.



(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 broad involvement of various stakeholders.*
 - *Quality assurance policy should reflect the relationship between research, teaching and learning.*
 - *The university demonstrates the development of a quality assurance culture.*
 - *Commitment to quality assurance must apply to all activities carried out by contractors and partners (outsourcing), including in the implementation of joint/dual degree education and academic mobility.*
 - *The management of the educational institution ensures transparency in the development of the educational institution's development plan based on an analysis of its functioning, the actual 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 mechanisms for the formation and regular revision of the educational program development plan and monitoring of its implementation, assessment of the achievement of educational goals, compliance with the needs of students, employers and society, and decision-making aimed at the continuous improvement of the educational program.*
 - *The management of the educational institution must involve representatives of stakeholder groups, including employers, students and teaching staff, in the formation of the educational institution development plan.*
 - *The leadership of the educational institution must demonstrate the individuality and uniqueness of the educational institution's development plan, its consistency with national development priorities and the development strategy of the educational organization.*
 - *The university must demonstrate a clear definition of those responsible for business processes within the EP, the distribution of job responsibilities of personnel, and the delineation of the functions of collegial bodies.*
 - *The management of the OP ensures the coordination of the activities of all persons participating in the development and management of the OP and its continuous implementation, and also involves all interested persons in this process.*
 - *The management of the OP must 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 OP must implement risk management.*
 - *The management of the educational program must ensure the participation of representatives of interested parties (employers, teaching staff, students) in the collegial bodies managing the educational program, as well as their representativeness in decision-making on issues of managing the educational program.*
 - *The university must demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals.*
 - *The leadership of the educational institution must demonstrate its openness and accessibility to teaching staff, employers and other interested parties.*
 - *The management of the OP confirms completion of training in educational management programs.*
 - *The management of the EP should ensure that the progress achieved since the last external quality assurance procedure is taken into account when preparing for the next procedure.*

Evidential part

The basis for developing the development plan is the Development Program of the NJSC "Kazakh Agrotechnical Research University named after S. Seifullin" for 2024-2029, approved by the Chairman of the Board - Rector of the NJSC "Kazakh Agrotechnical Research University named after S. Seifullin".

The development plan of the educational program was developed with the participation of stakeholders: students, teachers, employers, and the key provisions of the educational program being implemented and the requests of practitioners were also taken into account. The development plan of the educational program is drawn up for the future and is discussed at a meeting of the Department of Electrical Equipment Operation.

When studying the current and future needs of employers, identifying the required competencies and specialties, specialists in the field of energy and automation of various enterprises of Astana and the Republic of Kazakhstan were involved as employers. Thus, Astana Electrotechnical Plant LLP, NPF Energoservice LLP, Institute for Development of Electric Power Industry and Energy Saving JSC, Kazakhstan Paramaut Engineering LLP and others took part in the discussion of the OP.

KATIU carries out its activities based on the Quality Assurance Policy. This document is posted on the KATIU website and is aimed at implementing the mission, vision and strategic development of the University in order to meet the needs of the state, society, sectors of the real economy, potential employers, students and other stakeholders based on the analysis of external and internal factors with the broad involvement of stakeholders. Since 2005, the University has switched to international standards, implemented and certified the quality management system for compliance with MS ISO 9001-2015. The quality management system has fulfilled its role in systematizing more than 300 internal regulatory documents, documenting all university procedures, bringing them into line with the requirements of ISO standards, streamlining internal audits of the activities of faculties and departments, structural divisions. Since 2018, the transition from the QMS to the Internal Quality Assurance System (hereinafter, ICS) has begun.

In order to improve the quality of the educational process at the university, in 2021 the Center for Information and Educational Resources for the creation of electronic courses was introduced. At present, lectures have been video-recorded for massive open online courses, for example, lectures on the following disciplines: "Features of Energy Saving in the Development of Electric Power Industry" - Sheryazov S.K., "Electric Machines" - Gerasimenko T.S., "Linear Automatic Control Systems" - Zhantlesova A.B., "Electrical Engineering and Installation Technologies" - Tursunbaeva A.E.

The University has all the possibilities of using distance learning technologies. Continuous telecommunication connection with students is carried out via e-mail. On the University website, in the AIS "Platonus" tab, electronic versions of UMKD developed by the faculty in Kazakh, Russian and English languages for the taught disciplines are posted, and assignments are also assigned to students.

At the university, the quality assurance system is based on the current activity of Outsourcing, optimization of the university's activities by concentrating efforts on the main functions - teaching, research activities, expert and consulting services and the transfer of part of the functions to external specialized companies. In terms of educational services, outsourcing is manifested in the transfer of part of them to business structures, third-party organizations - personnel training, involvement of part-time workers from other universities and organizations in the implementation of the OP. The teaching staff participating in the implementation of the OP underwent internships and excursions at leading enterprises of Kazakhstan, master classes, seminars of leading specialists in the ICT industry.

The EP management actively ensures transparency in the development of the program development plan, based on a comprehensive analysis of its current functioning, the actual positioning of the university and the focus of its activities. This process includes regular collection of data on the results of the educational process, student performance, graduate employment success and other key indicators. The current state of the EP is assessed through internal and external audits, as well as regular surveys of students and faculty.

Monitoring the university's position in national and international rankings, as well as analyzing competitive advantages and weaknesses, allows for the opinions and recommendations of external experts and accreditation bodies to be taken into account. An important part of the process is meeting the needs of stakeholders: holding meetings and consultations with employers to identify labor market requirements and adjust curricula, involving students in the decision-making process through student councils, surveys and open discussions, and cooperating with government agencies to ensure that educational programs comply with state standards and strategic goals for the development of education.

The transparency of the EP is ensured by credit technology, which allows students to build an individual learning path, master courses using educational and methodological complexes of disciplines, course cases, electronic library resources; receive consultations from teachers during independent work with a teacher (ISWT), etc. To take into account the needs of the labor market and the requests of employers, employers are involved in the development of the CED by organizing meetings with them between teachers and students. As a result of the

meetings of the teaching staff with employers, general, professional and additional competencies of graduates are determined, a list of elective disciplines and individual, relevant for production, course topics is discussed with the aim of including them in the CEDs, RUPs and syllabuses. For example, employers recommended the introduction of new disciplines:

For OP 6B07108 "Automation and energy efficiency of processes and production": Power devices in mechatronics; Industrial controllers;

For OP: 6B08702 "Energy supply and automation of agriculture": Power devices in mechatronics; Microprocessor technology in electric power engineering; Energy saving by industry; Electrical equipment of electric networks.

In the 2023-2024 academic year, Power Conversion Systems LLC installed a laboratory stand on the university premises for the discipline "Automated Electric Drive" to perform a cycle of laboratory works on the study of an asynchronous variable-frequency electric drive, which is innovative equipment designed for training and research in the field of automated electric drive. In this regard, new laboratory works on this stand for the discipline "Automated Electric Drive" were developed and implemented, and, accordingly, adjustments were made to the description of this discipline.

The uniqueness and individuality of the educational program lies in its multidisciplinary nature, combining technical, natural science, socio-political, information, economic and agronomic sciences, aimed at training specialists of a new format in the field of energy and automation, competitive and in demand in industry, agriculture and transport.

The development and approval of the EP, compliance with norms, rules and requirements are regulated by the internal document "Regulations on the procedure for developing, a plan for the development of the educational program and monitoring its implementation in NAO "KATIU named after S. Seifullin".

The EPs are reviewed at a meeting of the Department of Electrical Equipment Operation with the participation of employers, the Faculty Council on Academic Quality and approved by the Academic Council of the University. Monitoring of the quality of educational programs is carried out by the Quality Committee through internal audit. After passing an external examination by E VPO experts, educational programs are entered or updated in the Register of Educational Programs of Higher and Postgraduate Education, while ensuring the transparency of the effective management system.

Risk management is carried out in accordance with the Regulation on Risk Identification and Management.

The management of the educational institution must ensure the participation of representatives of employers, faculty, students and other interested persons in the collegial bodies of the educational institution's management, as well as their representativeness in decision-making on educational institution management issues. All structures of the university are involved in the management of the educational institution: from the department, which ensures planning, development, monitoring, updating, and verification of the educational institution, to the structural divisions of the university: the dean's office, the Department of Social Development, the Faculty Council for Academic Quality, the Quality Committee, etc. Specialists in the field of power engineering and automation with sufficiently extensive scientific and industrial experience are also invited to the department meetings. When selecting employers who are included in the structural divisions for the management of the educational institution, the principle of representativeness is taken into account first of all.

The results of the teaching staff's own research and developments of the "Operation of Electrical Equipment" department have been implemented in the organization of the educational process. In particular, the results of the project 2-21MU/23 AP9058186 "Development of a methodology and computer program for determining additional losses of electrical energy during its transportation and distribution in the electrical network" have been partially implemented in the educational process within the framework of the discipline "Quality and reliability of power supply systems" in the topics: "The influence of electricity quality on the reliability of power

supply systems", "Technical diagnostics of electrical equipment" for OP 8D08703 - Energy supply and automation of agriculture .

The tools for monitoring and assessing the quality of educational programs are: surveys of applicants, students, and postgraduates, research into demand when concluding cooperation agreements with enterprises, studying feedback on graduates and feedback on the results of industrial practice.

During the period under review, the department introduced a number of new disciplines aimed at expanding the professional competencies of students. In particular, the following courses were added: "Power Devices in Mechatronics", "Professional Foreign Language", "Microprocessor Technology in Electric Power Engineering", "Energy Saving by Industry", "Electrical Equipment of Electric Networks", "Computer Modeling in Automation and Power Engineering", "Solving Inventive Problems", etc. These disciplines were developed taking into account the latest trends in the industry and recommendations from employers, which will allow graduates to be more competitive in the labor market.

The department has implemented a dual training system that combines theoretical training with practical training at the workplace. Leading enterprises of the region act as partners in dual training. Students have the opportunity to apply the acquired knowledge in practice, which significantly increases their professional skills and readiness for work.

The department actively develops international cooperation with foreign universities and research centers. Within the framework of partnership agreements, students and teachers participate in international conferences, internships and joint research projects.

The department supports academic mobility programs, providing students and teachers with the opportunity to study and do internships abroad. This contributes to improving the quality of education and integration into the international scientific community.

Students of the department regularly take part and win prizes in various Olympiads and competitions.

In conclusion, all the listed initiatives and achievements testify to the high level of the educational process at the department, which contributes to the formation of qualified and sought-after specialists.

Analytical part

The KATIU website (<https://kazatu.edu.kz/>) presents the Development Program of the NAO "S. Seifullin Kazakh Agrotechnical Research University" for 2024-2029 , the goals and development strategy of the EP correspond to paragraphs 1-4 of this Standard.

During the visit to the university, the experts were convinced of the published and implemented quality assurance policy, which reflects the relationship between research, teaching and learning.

Experts note that the university and the leadership of the educational institution have demonstrated the development of a quality assurance culture, including in the context of the educational institution, a commitment to which applies to all implemented processes, which is confirmed by the internal content of agreements, memorandums of cooperation and other documents.

Experts note the involvement and training of young teaching staff for the implementation of the OP 1 cluster, who practice teaching according to the OP using modern applied modeling programs (AutoCAD, "MathCAD", "LabVIEW", "MatLab", etc.).

The experts were presented with plans for the development of the OP, transparency in their development is traced, since information was provided on the full procedure for their design, approval, adjustment and publication with the participation of internal and external stakeholders.

The university has established partnerships with foreign universities, research centers and organizations. However, the experts of the VEC note that it is necessary to strengthen the work on expanding the number of partner universities to implement academic mobility of students and

teachers in order to acquire new knowledge and skills with the further prospect of implementing joint/dual-degree education.

Strengths/Best Practices:

Not observed

Recommendations of the VEC for OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture:

1. The management of the university and the educational institution should expand the geography of domestic and foreign partner universities to implement academic mobility of students and teachers in order to acquire new knowledge and skills with the further prospect of creating joint educational programs. Deadline - until the beginning of the 2025-2026 academic year.

Conclusions of the VEK based on the criteria:

According to the standard "Management of the educational program", 17 criteria are disclosed, of which: 16 criteria have a satisfactory position, 1 criterion requires improvement.

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 management demonstrates 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 reflecting 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 program, the activities of collegial bodies and structural divisions, and senior management.

• The university must demonstrate a mechanism for ensuring the protection of information, including identifying 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 management 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 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 students;

- *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 OP should facilitate the provision of all necessary information in the relevant fields of science.*

Evidential part

To automate the process of collecting, analyzing and managing information, the following systems for collecting, analyzing and managing information have been implemented and are in operation at KATIU: the official website of KATIU (management of general information, news channels, advertising, etc.); WORKSPACE (internal document flow); AIS "Platonus" (management of academic information, provision of assessment of the educational process); educational portal PORTAL (registration of business trips and schedules for all types of educational programs), integrated library information system, programs "1-C Accounting".

The University uses the following information systems: Electronic journal of the curator, dormitory, state procurement, fixed asset accounting, warehouse, timesheet, business trips, personnel, student social status, university quality indicators monitoring program, risk management, etc.

The teaching staff, employees and students have the opportunity to familiarize themselves with the main provisions of the development plan of the OP, which is presented on the KATIU website. To ensure that this information reaches the addressee, the OP management, through the heads of departments, introduces a familiarization sheet, which is signed by each employee of the department.

Interested parties, in particular employers, have the opportunity to obtain information about the processes of formation and implementation of the development plan of the OP, as evidenced by the signed protocols with employers.

Maintaining various educational, scientific, and methodological information on the website in an up-to-date state allows key stakeholders to obtain complete, reliable, socially significant information about the services provided and areas of educational activity or services to applicants wishing to enroll in KATIU.

The university library occupies one of the most important places in the information and educational environment of the university, is a full participant in the educational process, provides information support for scientific and educational activities and satisfies the information needs of students and faculty in various fields of knowledge. For users, the library has 4 library and information service points - a subscription, two reading rooms and an electronic resources room. Information support is also provided by the presence of an electronic library. Library processes are organized with the help of the Automated Integrated Library System (AILS), which is an innovative software solution for the comprehensive automation of information and library activities.

The university has designated persons responsible for the functioning of information systems, software resources, and the reliability of the information used: press secretary (official website of the university, social networks, media); digital officer (official website of the university, AIS " Platonus "), director of the DIT (AIS " Platonus ").

Access to information in the AIS " Platonus " is provided only to authorized users and is limited depending on the needs of users and the functional responsibilities of service personnel.

Involvement of students, employees or faculty in the process of collecting information is carried out through questionnaires, forms via the Platonus IS and WhatsApp. Based on which, the results are discussed and a decision is made (quality of teaching disciplines, quality of service in canteens, libraries). Dissemination of information occurs through deputy deans for educational work, curators, and heads of academic groups (MI QMS 04.4003-2020 Activities of the curator and heads of student groups; Regulations on the internal regulations).

The EP management uses processed, adequate information to improve the internal quality assurance system through the implementation of the university's strategic development plan.

Within the framework of the accredited EPs 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture, there is a system of regular reporting reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of divisions and departments, scientific research of the teaching staff and students. In order to realistically assess and predict the possible development of the competitive environment, the university systematically collects and analyzes information from the media and Internet resources.

Information security is ensured in accordance with the Regulation on the information security policy in KATIU. PPIB VND 09.9015-2021 and MI QMS 110.29-2016 Methodological instructions for organizing anti-virus protection in JSC KATIU named after S. Seifullin.

KATIU and the Department of Electrical Equipment Operation annually hold events for the employment of university graduates, which include: organizing job fairs, organizing work with graduates at employers' requests. Graduates of accredited OPs are successfully employed in their specialty in all regions of the Republic of Kazakhstan (there is a widespread shortage of personnel). The Department of Electrical Equipment Operation constantly monitors the work activities of graduates, invites graduates of different years of graduation to an annual meeting, and helps in further professional growth through training in a master's degree program and advanced training.

An analysis of employment showed that the majority of graduates are employed in the profile of the OP. Graduates of the Department of "Operation of Electrical Equipment" work in many industries of the Republic of Kazakhstan, including: JSC "Akmola Distribution Electricity Grid Company", JSC "SAMRUK ENERGY", JSC "Astana REC", Astana Electrotechnical Plant LLP, Astana Energy LLP, Astana-Energy LLP, NPF Energoservice LLP, Institute for the Development of Electric Power Industry and Energy Saving JSC, Kordinator Service LLP, Directorate of Administrative Buildings of the Administration of the President and Government of the Republic of Kazakhstan UDP RK RSE on PVC, LLP "OTIS", LLP "Energetika Alemi", TOO "Kazakhstan Paramount Engineering" ("Kazakhstan Paramount Engineering", Astana), TOO "TechnoExpert Astana", in government and commercial structures, etc.

Overall, more than 85-88% of graduates from this cluster are employed (including those studying in the master's program), including more than 70% in their specialty.

Analytical part

Information management at the University is the collection, analysis and further dissemination of information to improve the quality of services provided, including for the management of educational, educational and methodological, scientific research, educational, financial and other processes.

The VEC notes that the information to be collected and analyzed within the framework of the EP takes into account key performance indicators, the dynamics of the student population by form and type, the level of academic performance, student achievement and expulsion, student satisfaction with the implementation of the EP and the quality of education at the university, the availability of educational resources and support systems for students.

The members of the NAAR EEC note that the University needs to conduct information management and reporting on a systematic basis for all structural divisions using modern information and communication technologies and software.

The results of the student survey showed that they are generally satisfied with the quality of the EP (89.4%), however, in our opinion, the following point needs to be improved/strengthened:

- 6.1% or 4 students are not satisfied with the student lounges (item 18 of the Questionnaire);

The results of the survey of the teaching staff showed that they are, in general, satisfied with the content of the EP (99.4%), its compliance with their scientific and professional

interests/needs, however, in our opinion, it is necessary to improve/strengthen a number of the following problems/issues with which the teaching staff encounters in his work :

- lack of classrooms (item 34 of the Questionnaire) – 7.1% or 4 teachers;
- imbalance of the teaching load across semesters (item 34 of the Questionnaire) – 42.9% or 24 teachers answered “sometimes”;
- unavailability of necessary literature in the library (item 34 of the Questionnaire) – 35.7% or 20 people answered as “sometimes”;
- overcrowding of study groups (too many students in a group) (item 34 of the Questionnaire) – 39.1% or 22 people answered “sometimes”.

Strengths/Best Practices:

Not observed .

Recommendations of the VEC for OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture:

1. The university management shall systematically manage information and reporting of all structural divisions of the higher education institution, including departments, centers, etc.
Deadline: annually.

Conclusions of the VEK based on the criteria:

According to the standard “Information Management and Reporting”, 17 criteria are disclosed, of which: 16 criteria have a satisfactory position, 1 criterion requires improvement.

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 EP should 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 specified level of the NQF, QF-EHEA.*
 - *The management of the educational program must demonstrate the modular structure of the program based on the European Credit Transfer and Accumulation System (ECTS), 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 program 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 OP must demonstrate that external examinations of the OP 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 positioning of the educational institution in the educational market (regional/national/international), its uniqueness.*
 - *An important factor is the ability to prepare students for professional certification.*
 - *An important factor is the availability of a double-degree program and/or joint programs with foreign universities.*

Evidential part

KATIU has an approved and documented procedure for developing educational programs (EP), including all stages from the initial concept to final approval at the institutional level. This

procedure is set out in internal regulations and is regularly updated in accordance with the requirements of accreditation bodies and education quality standards.

The EPs have been developed to meet the current and future needs of the national economy for specialists in accordance with the NQF, the OQF and are aligned with the Dublin descriptors and the European Qualifications Framework.

KATIU creates and ensures compliance with the internal quality assurance system based on international standards and guidelines for quality assurance of higher and postgraduate education in the European Higher Education Area (ESG-ISIG)

The department has a Development Plan for the following educational programs: 6B07108 “Automation and energy efficiency of processes and production”, 6B08702 “Energy supply and automation of agriculture”, 7M07105 “Management of technical systems”, 8D08703 “Energy supply and automation of agriculture”.

The educational programs submitted by the University for accreditation were developed and approved in accordance with the requirements of such documents as the Organization Standard “On the procedure for developing a plan for the development of an educational program and monitoring its implementation at NAO KATIU named after S. Seifullin” (dated 10/12/2023).

The EPs of the 1st cluster have been developed, approved at the institutional level and registered in the Register of EPs of the European Higher Education Area. Experienced specialists of the Department of Electrical Equipment Operation took part in the development of graduate models for EPs 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of Technical Systems, 8D08703 - Energy supply and automation of agriculture:

- PhD, Associate Professor Sarsikeev E.Zh., Candidate of Engineering Sciences, Associate Professor Shukraliev M.A., PhD, Senior Lecturer Umurzakova A.D., PhD, Associate Professor Zhantlesova A.B., Candidate of Engineering Sciences, Senior Lecturer Kismanova A.A., Candidate of Engineering Sciences, Senior Lecturer Gerasimenko T.S., Candidate of Engineering Sciences, Senior Lecturer Adzhanov A.U., Candidate of Engineering Sciences, Senior Lecturer Tleuova A.A., Candidate of Engineering Sciences, Associate Professor Babko A.N., Candidate of Engineering Sciences, Associate Professor Mekhtiev A.D., Candidate of Engineering Sciences, Assoc. Professor Isenov S.S. PhD, Senior Lecturer Ablanov M.B.

The approval of the EP occurs in stages in the established order, first the EPs are heard at a meeting of the department (minutes No. 8 dated March 23, 2022), then the EPs are approved at a meeting of the Academic Council of the Faculty of Power Engineering (minutes No. 4 dated April 26, 2022), then the programs are approved at a meeting of the Academic Council of KATIU (minutes No. 5 dated May 17, 2022).

The members of the IAAR EEC note that the EPs of cluster 1 submitted for accreditation have undergone external review. Thus, the external examination at the stage of development of educational programs was carried out with the involvement of specialists from leading energy companies: Astana Electrotechnical Plant LLP, Astana Qalalyq Zharyq LLP, Astana-Energy LLP, NPF Energoservice LLP, Institute for Development of Electric Power Industry and Energy Saving JSC.

The University passed institutional and specialized accreditation in the Independent Agency for Accreditation and Rating (IAAR) in 2019. Educational programs ... are accredited by the agency for 5 years (until 2024).

The development of educational programs is carried out taking into account the proposals of employers JSC Astana REC, LLP Astana Electrotechnical Plant, LLP Astana Qalalyq Zharyq, LLP Astana-Energiya, LLP NPF Energoservice, JSC Institute for Development of Electric Power Industry and Energy Saving, LLP OTIS, LLP Energetika Alemi, LLP Kazakhstan Paramount Engineering (Kazakhstan Paramount Engineering, Astana) and others. The opinion of employers was reflected in the development of the catalog of elective disciplines, which serves as the basis for the formation of an individual curriculum for a student.

Professional practice of students is carried out in production, research, design organizations, the main activity of which predetermines the availability of objects and types of professional activity of graduates in OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture. The University has concluded agreements on the passage of practices of students of the 1st cluster with the following enterprises: JSC "Astana REC", LLP "Astana Electrotechnical Plant", LLP "Astana Qalalyq Zharyq", LLP "Astana-Energia", LLP "NPF Energoservice", JSC "Institute for the Development of Electric Power and Energy Saving", LLP "OTIS", LLP "Energetika Alemi", LLP "Kazakhstan Paramount Engineering" ("Kazakhstan Paramount" Engineering", Astana), etc.

A memorandum was signed with Astana Electrotechnical Plant LLP on training students of the educational program OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, according to the dual training system. About 30 people will be trained annually at Astana Electrotechnical Plant LLP according to the dual form of training with the receipt of a working qualification.

Analytical part

The members of the NAAR EEC note that the University defines goals for each program developed and approved, the basis of which are the State Educational Standard, regulatory acts of the Republic of Kazakhstan and the needs of the labor market.

When determining the contribution of disciplines to the process of determining learning outcomes, recommendations and suggestions from employers are taken into account.

The VEC notes the need to introduce a more active practice of implementing *dual training*, which was also noted by groups of students, graduates, employers, and heads of practice bases during a meeting with the VEC. It was noted that the university, in general, is ready to begin targeted work on large-scale practice-oriented training according to documented procedures. It is necessary to bring not only summer professional practices to practice bases and department branches, but also to conduct practical, laboratory, and lecture classes within the framework of full-fledged disciplines, with the preparation of official schedules at enterprise bases (not only guest or excursion classes).

In addition, the accredited the department has the potential to carry out work in the area of providing students with additional professional competencies that will enable students to be more in demand and competitive after graduating from the university due to the various qualifications obtained during their studies, conducting professional certifications of students, developing and implementing programs for assigning micro-qualifications to students, etc.

The Commission notes that for accredited educational institutions it is necessary to develop a program for the internationalization of educational programs with the further prospect of joint harmonization of the content, learning outcomes and teaching of specialized courses.

Strengths/Best Practices:

Not observed

Recommendations of the VEC for OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture:

1. The EP management shall develop a program for the internationalization of educational programs with the further prospect of joint harmonization of the content, learning outcomes, and teaching of specialized courses. *Deadline: until the beginning of the 2025-2026 academic year.*

Conclusions of the VEK based on the criteria:

According to the standard "Development and approval of educational programs", 12 criteria are disclosed, of which: 11 criteria have a satisfactory position, 1 criterion requires improvement.

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 periodic evaluation of the EP 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:

- 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;
- effectiveness of student assessment procedures;
- needs and level of satisfaction of students;
- compliance of the educational environment and activities of support services with the objectives of the educational program.

- All interested parties must be informed of any actions planned or taken in relation to the OP. All changes made to the OP must be published.

- Support services should identify the needs of different groups of students and the degree of their satisfaction with the organization of learning, teaching, assessment, and mastery of the educational program as a whole.

Evidential part

The university defines and consistently applies procedures for monitoring, periodic evaluation and revision of educational programs in order to ensure that they achieve their goals and meet the needs of students and society. The procedure for monitoring and periodic evaluation of educational programs at the university is carried out on the basis of internal documents: "Organization Standard "On the procedure for developing a development plan for an educational program and monitoring its implementation at NAO "KATIU named after S. Seifullin" (dated 12.10.2023).

The University ensures the participation of students, potential employers and other stakeholders in the evaluation and revision of programs. This is confirmed by the participation of the faculty, students and employers in the Academic Committees, the presence of external examinations submitted to the experts of the EEC with proposals for studying and updating the cluster's MOP.

The basis for these procedures is:

- changes in the State Standard of Higher and Postgraduate Education;
- introduction of new professional standards;
- proposals from potential employers, formed based on the results of a survey or joint events with graduating departments;
- recommendations from representatives of practice bases;
- results of research activities of the university teaching staff in the field of thermal power engineering;
- changes in regulatory requirements for the development of OP.

Improvement of educational programs includes the following procedures:

- annual examination of methodological support at the level of department meetings, the University's Educational and Methodological Council, and the Academic Council of KATIU.
- annual analysis and expansion of the CED with the involvement of employers.
- maintaining feedback with stakeholders aimed at improving the educational program (round tables, final conferences on production, teaching and research practices, joint scientific and methodological seminars).

- monitoring the implementation of the program at the level of the UMS.
- assessment of the quality of the OP by the main stakeholders.
- annual internal audits to determine the compliance of the processes of planning, organization, monitoring and development of the quality of the OP with the established requirements.
- analysis of the results of external quality assurance procedures.
- review of the general results of monitoring and evaluation of the OP, development of measures for improvement.

The assessment of the quality of the implementation of the OP was determined through the analysis of open classes and mutual visits of the teaching staff.

Monitoring of students' academic performance is systematically carried out in the form of discussions of the results of midterm controls 1 and 2, examination sessions in study groups. Based on the results, corrective actions and decisions are taken.

The process of monitoring, evaluation and improvement is reflected in the decisions of collegial bodies.

The quality of educational programs is assessed annually by key stakeholders, namely:

- an annual survey of students on the quality of the educational program, learning environment and support services;
- analysis of the organization of open classes and mutual visits of teaching staff;
- assessment of the educational results of students of the educational program is considered at meetings of departments and educational and methodological councils;
- interaction of the department with representatives of practice bases, including through joint formation of a catalog of elective disciplines.

The management of the accredited educational institutions carries out coordinated work with stakeholders; interaction is carried out through joint coordination of educational and professional practice programs, participation in conducting training sessions, carrying out research work, participation in seminars, organizing advanced training courses, and discussing topics for diploma and master's theses.

Internal evaluation of educational programs is carried out by means of the expert group's conclusion. Based on the expert group's conclusion, the educational program is reviewed and recommended for approval at meetings of the Department of Electrical Equipment Operation, the educational and methodological council of the university and approved by the Academic Council of KATIU. After passing all stages of coordination and approval, the educational program is introduced into the educational process.

All activities to control the quality of the educational process, carried out at different levels, are recorded in the form of records, acts, certificates, reports, etc., and are discussed at meetings of departments, the Educational and Methodological Council and the Academic Council of the University. Based on the analysis and assessment of control indicators, measures are developed to improve the quality of implementation of educational programs.

The workload, academic performance and graduation of students comply with regulatory requirements and the State Educational Standard. Based on the data of continuous monitoring, a report on the results of sessions is analyzed and generated. This issue is periodically considered at meetings of departments, the Educational and Methodological Council, and the Academic Council of KATIU to take the necessary measures to improve academic performance and achieve the desired results.

A student who does not agree with the results of the exam assessment has the right to appeal. In certain cases (due to illness, family circumstances, other objective reasons), the dean's office may allow the student to take the exam session individually.

Every year, a survey of students is conducted to assess the teaching activities of the teaching staff; the analysis of the survey is conducted at meetings of the Department of Electrical

Equipment Operation. Based on the results of the discussion, the management of the EP makes a decision on corrective actions.

The educational environment and support services correspond to the goals of the educational program, since the educational process for accredited programs is implemented in specialized classrooms and educational laboratories equipped with the necessary equipment and software.

Analytical part

The process of monitoring, evaluation and improvement of the educational program is the area of responsibility of the head of the department and is controlled by the Educational and Methodological Council. Documentary evidence of changes in educational programs are: decisions of collegial bodies; action plans for improving the educational program; updated methodological support based on decisions of collegial bodies; minutes of events. The main goals of discussing the results of monitoring and evaluation of the educational program at collegial meetings are: facilitating the evaluation of the educational program and its improvement; informing about changes in external requirements for the educational program; maintaining an exchange of ideas with other organizations implementing the educational program; harmonization of content with educational programs of Kazakh and foreign universities; determining areas for improving the qualifications of teaching staff implementing the educational program; recommendation for external quality assurance procedures; determining the forms and content of feedback with stakeholders for the development of the educational program. However, experts note the need to analyze the procedures used to assess students for their effectiveness.

Information about changes in OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture is held at department meetings, educational and methodological councils, and the Academic Council of the university. Also, interested parties are informed about upcoming meetings on issues of reviewing educational programs by means of communication (mobile communications / email / WhatsApp). The department and the university have accounts in social networks (Instagram, Facebook), through which they inform all interested parties about the events held at the Department of Electrical Equipment Operation and the university.

However, the VEK commission notes the absence of a mechanism for informing all interested parties about any planned or undertaken actions in relation to the accredited educational programs on the university website. The university does not publish information about changes made to the educational program.

The VEC experts would like to draw the attention of the university management to the results of the faculty survey (Appendix 3 of this report), which contain unsatisfactory answers on the following points:

- *involvement of the teaching staff in the process of making management and strategic decisions – dissatisfied – 10.7% or 6 teaching staff, adequacy of recognition of the potential and abilities of teachers by the university management – dissatisfied – 7.1% or 4 teaching staff, the ability of the teaching staff to combine teaching with scientific research and practical activities – dissatisfied 7.1% of the teaching staff or 4 people, perception of criticism addressed to them by the university management and administration – dissatisfied 8.9% of the teaching staff or 5 people.*

Strengths/Best Practices:

not observed

Recommendations of the VEC for OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production,

7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture:

1. The management of the university and the EP must regularly publish information on changes to the EP on the official website of the university (department) and social networks.
Deadline: annually

Conclusions of the VEK based on the criteria:

According to the standard "Continuous monitoring and periodic evaluation of educational programs", 10 criteria are disclosed, of which: 9 criteria have a satisfactory position, 1 criterion requires improvement .

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 teaching 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 presence of our own research in the field of teaching methods of the EP disciplines.*
- *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.*
- *Evaluators must be proficient in modern methods of assessing learning outcomes and regularly improve their qualifications 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 must demonstrate support for learner autonomy while providing guidance and assistance from the teacher.*
- *The management of the educational institution must demonstrate the existence of a procedure for responding to student complaints.*

Evidential part

The university has a regulation on inclusive education of NAO "KATU named after S. Seifullin". PIO QMK 02.2060-2021. Link to the document <https://kazatu.edu.kz/pages/universitet/dokumenty/polozenia-politiki-po-social-noj-otvetstvennosti-vnutri-universiteta>

The Regulation on inclusive education of the NAO "KATU named after S. Seifullin" (hereinafter referred to as the Regulation) defines:

- issues of organizing training for disabled people and people with disabilities (hereinafter referred to as PWD) at the NAO "KATU named after S. Seifullin";
- assignment of functions to structural divisions of NAO "KATU named after S. Seifullin" to create conditions for training disabled people and people with disabilities;
- measures to create conditions for the education of disabled people and people with disabilities, including the organization of pre-university training and career guidance work, comprehensive support of the educational process and health preservation, development and maintenance of the information technology base for inclusive education of disabled people and people with disabilities;

- development and maintenance of educational programs implemented using e-learning, distance learning technologies for people with disabilities and individuals with disabilities;

The university also has a Center for Inclusive Support
<https://kazatu.edu.kz/pages/universitet/ustojcivoe-razvitiie-katiu>.

All issues related to preparation and monitoring of examination sessions and students' academic performance, algorithm for working with the automated module for determining the difference (reinstatement, exit from academic leave, transfer within the university, from another university), organizational issues of preparing information on graduates' academic performance, reporting and reports in the AIS "Platonus" in the university, an advisory service has been created.

The internal quality assurance policy is implemented through the link between research, teaching and learning. It involves all departments of the university and equal responsibility for quality assurance, respect and attention to different groups of students and their needs, provision of flexible learning paths and regular feedback on teaching methods and techniques.

The department has created scientific circles. One of them is the scientific circle "Digital Energy". The goal of the circle is to improve professional knowledge in the field of energy and to form a team of students, graduate students and teachers of KATU named after S. Seifullin, capable of solving various engineering and research problems of the production level in the field of digital energy, digital transformation (digitalization) in energy. Link to the document <https://kazatu.edu.kz/page/naucnyj-kruzok-cifrova-energetika>.

The educational process at the university within one academic year is carried out using various technologies (traditional full-time, full-time - distance, mixed) of training based on the academic calendar, which is approved by the decision of the Academic Council of the university. To provide educational services using various training technologies, students and teachers of the university use the AIS "Platonus", LMS MOODLE, AIS for checking written work (UniHab), as well as platforms for conducting online classes ZOOM, CiscoWebex, Hangouts, etc.

The duration of internships is determined in weeks based on the standard time of a student's work on internship during the week, equal to 30 hours (6 hours per day with a 5-day work week). MI QMS 02.2017-2021 "Procedure for organizing and conducting practical training of students"; MI QMS 02.2020-2022 "Procedure for organizing and conducting practical training of master's / doctoral students"; POPPOBDO QMS 02.2067-2021 Regulation "On the organization of professional internship of students of NAO "KATU named after S.Seifullin" on the basis of subsidiaries of LLP "SPC ZH named after A.I. Barayev", LLP "KAZNIILHA" named after A.N. Bukeikhan, LLP "SK SKhOS".

The courses are compiled in accordance with the requirements of the Academic Policy of NAO "KATIU named after S.Seifullin" (link to the website: <https://kazatu.edu.kz/ru/pages/obucenie/akademiceskaa-politika>). The Academic Policy of the University and the Code of Academic Integrity of Participants in the Educational Process are freely available on the University website. All students are given equal opportunities to participate in the discussion of academic topics in class. Everyone has the right to ask questions and receive answers on the academic topics stated in the Syllabus. Originality of thinking and creativity of students in completing teacher's assignments are encouraged. All students are required to adhere to the academic culture of behavior and demonstrate mutual respect for each other.

The settlement of a conflict of interest that has not been resolved at the level of the structural unit of the Company is carried out by the anti-corruption, disciplinary commission of the S. Seifullin KATIU. Information on the measures taken to settle the conflict of interest is communicated to all participants in the conflict.

Analytical part

The management of the educational institution ensures respect and attention to students and their needs, and flexible learning paths are presented. The teaching staff of the accredited

educational institutions use traditional and interactive teaching methods within the educational process.

The members of the NAAR EEC note that, within the framework of the educational process, in preparing students for the OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture, innovative methods are used with the use of discussions, business games, and project methods .

The university applies generally accepted assessment criteria and ensures timely information about the assessment strategy used. It also ensures transparency of assessment procedures and feedback from students.

At the same time, the experts were not shown examples of the availability of the department's own developments in the field of teaching methods. The management of the accredited educational institutions did not demonstrate that the teaching staff had completed advanced training in the area of modern methods of assessing learning outcomes.

Strengths/Best Practices:

Recommendations of the VEC for OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture:

1. The EP management shall ensure the implementation of the results of its own research in the field of teaching methods of the EP disciplines in the educational process. Deadline: 01.09.2025.

Conclusions of the VEK based on the criteria:

According to the standard "Student -centered learning, teaching and assessment of academic performance", 10 criteria are disclosed, of which 9 criteria have a satisfactory position, 1 criterion requires improvement.

6.6. Standard "Students"

- *The university must demonstrate the policy for 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, and published.*
- *The management of the educational institution must 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 study.*
- *The university must 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 opportunities, 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 the 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 presence of an active alumni association/union.*

Evidential part

The formation of the contingent of students in the areas and levels of education in NAO "KATIU named after S. Seifullin" is carried out on the principles of: equal accessibility of the university's educational programs for all categories of citizens of the Republic of Kazakhstan and foreign countries using various learning technologies, including traditional, distance and mixed; selection of applicants focused on educational programs of the university's specialist training areas. Professional orientation is carried out to form an early professional choice of school and college students.

The contingent of students is formed by admitting persons to the number of students who are best prepared for studying at a university, who have consciously chosen a specialty, who have scored the required number of points based on the results of the UNT - graduates of general secondary schools, KTA - graduates of secondary specialized education on the basis of a state order (grant) and on a commercial basis. Persons who have passed the UNT and scored at least 50 points based on its results are allowed to participate in the competition for the award of an educational grant for higher education at the expense of the republican budget or local budget and (or) enrollment in paid education. At the same time, it is necessary to score at least 5 points for each UNT subject.

Enrolled students will learn about the procedure for implementing the procedures for forming the contingent in the organizational structures of the university, such as the admissions committee, dean's office, department and student service center where students, master's students, doctoral students, applicants and their parents will be able to obtain information about the rules of admission, transfer from course to course, from other universities, expulsion, etc.). Academic debt is found in students who have not scored one or more credits from the number of credits established in a given semester. A student who has scored the established transfer score and transferred to the next course in the presence of academic debt, eliminates the academic debt on a fee-paying basis, retaining the EP. Students who have not passed academic debts within the established time are returned to repeat training. In this case, they can study according to the previously adopted IUP or create a new individual curriculum. If a student studying under a state educational order has not accumulated the required number of credits stipulated by the RUP, he/she has the right to re-study the relevant disciplines on a paid basis. A student studying under a state educational grant and left for a repeat course is deprived of the state educational grant for the subsequent period of study. Students who have gone on academic leave retain their state educational grants. The procedure for granting academic leave to a student is regulated by the Rules for granting academic leave to students in full-time educational organizations, approved by the order of the Minister of Education and Science of the Republic of Kazakhstan dated December 4, 2014 No. 506. Registered in the Ministry of Justice of the Republic of Kazakhstan on March 17, 2015 No. 10475 and PPOPVPAO VND 02.2040 - 2022 "Regulations on the procedure for expulsion, transfer, reinstatement and granting academic leave to students of KATIU named after S. Seifullin".

The contingent of those accredited for the reporting period is shown in Table 2.

Образовательная программа	1 курс	2 курс	3 курс	4 курс	Итого
6В07108 Автоматизация и энергетическая эффективность процессов и производств	158	104	54	36	352
6В08702 Энергообеспечение и автоматизация сельского хозяйства	23	36	17	17	93
7М07105 Управление техническими системами	4	1			
8D08703 Энергообеспечение и автоматизация сельского хозяйства	1	1			

Experts note *a decrease in the number of students enrolled* in the OP 6В08702 - Energy supply and automation of agriculture in 2024.

Students of all forms and levels of training are provided with access to the electronic resources of KATIU named after S. Seifullin: electronic library, curricula, academic calendar, catalog of elective disciplines.

Employment of graduates is carried out mainly by holding an annual job fair. Potential employers are invited to the graduate fair, interviews are held with graduates of two levels of training. The organization's standard also regulates the management of the graduate placement process.

Upon completion of the EP, bachelor's degree graduates receive an academic degree of bachelor of agriculture or bachelor of engineering and technology in the relevant EP. Graduates who have completed their studies in the master's degree program are awarded a state diploma with the award of an academic degree of master of agricultural sciences or master of technical sciences in the relevant EP <https://kazatu.edu.kz/ru/pages/coo/trebovania-k-vypusknikam>

Graduates of the department's OP programs have skills that are in demand in the labor market. The results of a survey of employers within the educational programs are presented.



Основные технико-экономические требования к проектируемым устройствам и системам

 Копировать

Жобаланатын құрылғылар мен жүйелерге қойылатын негізгі техникалық – экономикалық талаптар



Figure 1. Results of employers' assessment of graduates' level of proficiency in the fundamentals of design and engineering activities

Необходимые меры по обеспечению безопасности жизнедеятельности и охране окружающей среды при производстве и эксплуатации электроэнергетических систем и установок энергетики и автоматики

 Копировать

Электр энергетикалық жүйелерді және энергетикалық автоматтандыру қондырғыларын өндіру мен пайдалану кезінде өмір қауіпсіздігін және қоршаған ортаны қорғауды қамтамасыз ету жөніндегі қажетті шаралар



Figure 2. Results of employers' assessment of skill levels

An important factor in the professional activity of graduates is monitoring employment. The department constantly monitors the work activity of graduates, invites them to meet with first-year students, and helps in further professional growth through training in a master's program. The department closely cooperates with various enterprises on issues of scientific and industrial partnership. The department's cooperation with practice bases contributes to the marketing of the regional labor market and, as a result, to the expansion of the circle of potential employers.

Monitoring of graduate employment is carried out by collecting information about their work activity by the person responsible for employment, who conducts a survey of graduates. To collect information about graduate employment, the person responsible has a database that includes e-mails, telephones and residential addresses. The level of employment is given in Table 3.

№	БББ	Количество выпускников, человек				Трудоустройство, %			
		2019- 2020	2020- 2021	2021- 2022	2022- 2023	2019- 2020	2020- 2021	2021- 2022	2022- 2023
1	6B08702 Энергообеспечение и автоматизация сельского хозяйства	57	31	24	32	61,4	74,1	75	96
2	6B07108 Автоматизация и энергетическая эффективность процессов и производств	-	-	-	16	-	-	-	94
3	7M07105 Управление техническими системами		2	5	2		100	80	100
4	8D08703 Энергообеспечение и автоматизация сельского хозяйства	0	0	0	1	-	-	-	100

Analytical part

Analyzing the "Students" standard, the members of the EEC came to the conclusion that the university demonstrated a policy for forming a contingent of students and the transparency of its procedures, compliance of its actions with the Lisbon Recognition Convention. The management of the EP demonstrated the implementation of special adaptation and support programs for foreign students and first-year students.

The EP management demonstrated its readiness to provide students with internships. The university provides opportunities for external and internal mobility of EP students. To develop interaction between internal and external mobility, memorandums have been concluded and agreements have been drawn up with partner universities.

The involvement of students in research work together with the faculty is noted. A motivation system for attracting students to research work has been formed. Students who win in-house competitions of research papers, conferences, olympiads, round tables, etc. are awarded diplomas, certificates, letters of thanks and valuable gifts.

Monitoring of graduate employment is carried out by collecting information about their work activities by the person responsible for employment, who conducts a survey of graduates, however, during the interview, *experts noted* that data on graduate employment does not always reflect objective information, taking into account the data of the State Institution "Financial Center".

Strengths/Best Practices:

Not observed.

Recommendations of the VEC for OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of

agriculture :

1. The leadership of the OP should develop a roadmap for the development of graduate employment, as well as provide for activities for cooperation with the State Institution "Financial Center" for reliable monitoring of employment using modern digital systems by 01.06.2025.

Conclusions of the VEK based on the criteria:

According to the standard "Students" 12 criteria were revealed, of which 11 criteria have a satisfactory position, 1 criterion requires improvement.

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 changing 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 information and communication technologies and software by the teaching staff in the educational process (for example, online learning, e-portfolios, 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 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 University's personnel policy is reflected in the following key documents: University Charter; Collective Agreement; Regulations on Personnel Policy; Regulations on Structural Subdivisions; Employment Contracts; Regulations on the Procedure for Certification of Employees, etc.

To organize the work of the department's teaching staff, Individual Work Plans for Teachers have been developed, including five sections covering the full range of teacher activities (educational, educational and methodological, scientific and methodological, educational, and others). The plans are discussed at department meetings and approved by the dean of the faculty.

Every year the head of the department analyzes the implementation of tasks set in the individual plans of teachers, which is reflected in annual reports and rating points. When drawing up the workload and schedule of teachers, the administration strives to ensure a balance between educational activities and other types of work, taking into account the possibility of effective implementation of research, educational and methodological and educational work. In addition, it attracts specialists from relevant fields to the department who have professional competencies that meet the requirements of the educational program, such as Cand. Sci. (Eng.) Mekhtiev A.D., PhD Dr. Kismanova A.A., Cand. Sci. (Eng.) Adzhanov A.U., PhD Dr. Ablanov M.B., PhD Dr. Umurzakova A.D., PhD Dr. Madi P.Sh., PhD Dr. Kurabaev I.K., Master Orazbaeva A.K., Master Tursunbaeva G.U.

The selection of the teaching staff is carried out strictly in accordance with the Model Rules for the Activities of Higher and Postgraduate Education Organizations (Order of the

Minister of Education and Science of the Republic of Kazakhstan dated October 30, 2018 No. 595) and the Qualification Requirements for the Educational Activities of Organizations Providing Higher and (or) Postgraduate Education, and the list of documents confirming compliance with them (Order of the Minister of Education and Science of the Republic of Kazakhstan dated June 17, 2015 No. 391).

The indicators for the qualitative and quantitative composition of the teaching staff of the graduating departments of the accredited educational programs are given in the following tables:

6B07108 Automation and energy efficiency of processes and production

	Human resources potential of the teaching staff	2021-2022	2022-2023	2023-2024	2024-2025
1	Number of full-time teaching staff, total:	49	55	53	55
	Including:				
	With academic degrees and titles	32	34	35	34
	-Doctors of Science, of which	2	2	2	2
	- professors (awarded by the Higher Attestation Commission of the Republic of Kazakhstan, the USSR)	1	1	1	1
	-Associate Professor				
	- candidates of science, of which	24	27	27	26
	- associate professors (awarded by the Higher Attestation Commission of the Republic of Kazakhstan, the USSR)	3	6	7	8
	-PhD doctors , of which	6	5	6	6
	-Associate Professor	0	1	1	1
	Masters of Science	17	21	18	21
	Number of part-time teaching staff, total:	6	8	7	8
2	Staffing level of teaching staff according to the staffing table, %	65.3	61.8	66.1	61.8
3	The share of teaching staff conducting classes in Kazakh, %	70.7	73.5	72.6	74.3

6B08702 Energy supply and automation of agriculture

	Human resources potential of the teaching staff	2021-2022	2022-2023	2023-2024	2024-2025
1	Number of full-time teaching staff, total:	57	53	55	63
	Including:				
	With academic degrees and titles	32	34	34	36
	-Doctors of Science, of which	2	2	2	2
	- professors (awarded by the Higher Attestation Commission of the Republic of Kazakhstan, the USSR)	1	1	1	1
	-Acting Professor				
	-Associate Professor				
	- candidates of science, of which	25	26	27	28
	- associate professors (awarded by the Higher Attestation Commission of the Republic of Kazakhstan, the USSR)	4	7	6	5
	-PhD doctors , of which	5	6	5	6

	-Associate Professor	1	1	1	1
	Masters of Science	25	19	21	27
	Number of part-time teaching staff, total:	6	6	8	8
2	Staffing level of teaching staff according to the staffing table, %	56.1	64.1	61.8	57.1
3	The share of teaching staff conducting classes in Kazakh, %	74.6	73.8	73.5	78.7

7M07105 Management of technical systems

	Human resources potential of the teaching staff	2021-2022	2022-2023	2023-2024	2024-2025
1	Number of full-time teaching staff, total:	10	11	11	12
	Including:				
	With academic degrees and titles	10	11	11	11
	-Doctors of Science, of which	1	1	0	0
	- professors (awarded by the Higher Attestation Commission of the Republic of Kazakhstan, the USSR)				
	-Acting Professor	1	1		
	-Associate Professor				
	- candidates of science, of which	5	6	5	6
	- associate professors (awarded by the Higher Attestation Commission of the Republic of Kazakhstan, the USSR)	2	2	2	1
	-PhD doctors , of which	4	4	6	5
	-Associate Professor	0	0	0	0
	Masters of Science	0	0	0	1
	Number of part-time teaching staff, total:	0	0	0	0
2	Staffing level of teaching staff according to the staffing table, %	100	100	100	91.6
3	The share of teaching staff conducting classes in Kazakh, %	100	100	100	100

8D08703 Energy supply and automation of agriculture

	Human resources potential of the teaching staff	2021-2022	2022-2023	2023-2024	2024-2025
1	Number of full-time teaching staff, total:	6	6	5	5
	Including:				
	With academic degrees and titles	6	6	5	5
	-Doctors of Science, of which	0	0	1	1
	- professors (awarded by the Higher Attestation Commission of the Republic of Kazakhstan, the USSR)			1	1
	-Acting Professor				
	-Associate Professor				
	- candidates of science, of which	1	1	1	1
	- associate professors (awarded by the Higher Attestation Commission of the	1	1	1	1

	Republic of Kazakhstan, the USSR)				
	-PhD doctors , of which	5	5	3	3
	-Associate Professor	0	0	2	2
	Masters of Science	0	0	0	0
	Number of part-time teaching staff, total:	0	0	0	0
2	Staffing level of the teaching staff according to the staffing table, %	100	100	100	100
3	The share of teaching staff conducting classes in Kazakh, %	100	100	100	100

The university attaches great importance to promoting a culture of quality and academic integrity. This is the basis for ensuring a high level of education and creating an atmosphere of trusting interaction between students, teachers and the university administration:

- The university's teachers undergo special trainings and seminars on the culture of quality and academic integrity. This allows them to become familiar with the principles and standards of quality, as well as gain knowledge on how to promote these principles in their work.

- Teachers actively use teaching methods in their work that promote the development of critical thinking and creativity in students. This allows them to form in students an understanding of the importance of quality and academic integrity.

- Teachers create an atmosphere of trusting interaction in their groups and encourage students to ask questions and share their thoughts. This allows them to establish strong relationships with students and help them understand the importance of quality and academic integrity.

- Teachers observe ethical standards in their work and are an example for students. This allows them to instill in students responsibility, integrity and respect for academic standards

In order to support young teachers, work is underway at the departments to create a personnel reserve, and financial support is provided for conducting scientific research and internships. Young teachers who are actively engaged in scientific research and who show themselves to be creative individuals with an active life position are sent to doctoral studies.

Material incentives include a system of bonuses for teachers and staff for personal contribution and results achieved in work activities. Bonuses for employees are given based on the results of work during the academic year, successful conduct of the admission campaign, certification, accreditation, scientific results, birthdays and anniversaries, official state holidays. Other mechanisms for motivating employees to work more effectively and creatively include sending them to courses, seminars, conferences and internships, including in foreign countries.

The university allocates funds for the publication of textbooks, teaching aids and monographs by its teachers.

Analytical part

All teaching staff meet the qualification requirements of educational activities in accordance with the Law of the Republic of Kazakhstan "On Education". The main indicators of the success of the implementation of personnel policy are the improvement of the quality level of teaching staff. In this direction, the university carries out targeted work, as evidenced by the stable qualitative growth of teaching staff.

Guide m university A mechanism has been developed and work is systematically carried out to motivate the professional and personal development of teachers of the educational institution. One of the instruments of such encouragement is a system of categories for payment, which takes into account the publication activity of scientists and teachers of the university.

Experts note that the university management is aware of the importance of motivating the professional and personal development of the teaching staff and offers a wide range of

opportunities for advanced training and professional growth. This system is aimed at improving the quality of education, improving the working conditions of the teaching staff, including young teachers, and increasing their motivation.

The departments pay attention to the use of information technologies in the educational process. However, *the VEK experts note that* within the framework of the development of distance learning technologies, the faculty of the department needs to more actively develop skills in the widespread use of information and communication technologies and software in the educational process, *the development of massive open online courses* and their placement on the university website.

Strengths/Best Practices:

1. The management provides opportunities for career growth, motivates the professional and personal development of the teaching staff, and offers a wide range of opportunities for advanced training and professional growth.

Recommendations of the VEC for OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture:

1 The university management shall develop regulatory requirements for the use of teaching staff, information and communication technologies and software in the educational process, the use of massive open online courses in specialized disciplines of accredited educational programs.

Deadline: 2025-2026 academic year.

Conclusions of the VEK based on the criteria:

According to the standard "Teaching staff", 10 criteria are disclosed, of which: 1 – strong position, 8 – have a satisfactory position, 1 – suggests improvement.

6.8. Standard "Educational resources and student support systems"

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

- *The management of the OP 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 (for example, 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, final 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 management of the EP should demonstrate the existence of procedures for supporting 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

The development and improvement of the material and technical base of the department is carried out on the basis of the Development Strategy of KATIU named after S.Seifullin, as well as on the basis of long-term and annual plans. The resources used to organize the learning process are sufficient and meet the requirements of the EP.

The development of the material and technical base and information support is carried out in accordance with the standards of the organization "Management of Material and Technical Support" and "Management of Information Resources of a Scientific Library". Management of information resources in the library includes the following processes: modeling, acquisition and accounting, document processing, organization, placement and use of the documentary fund, creation of an electronic and traditional reference and bibliographic apparatus (hereinafter referred to as RBA), use of own electronic resources.

Planning of material and technical supply begins with the collection of applications from all departments of the university, by November 1. The consideration of applications from departments is carried out at the university rector's office, the final list and volumes of acquisition of necessary material assets are agreed with the heads of departments. The planning and economic department forms a plan for state purchases and calculates financial resources for their acquisition.

Analysis of material and technical supply is carried out quarterly (monthly if necessary) and at the end of the year, by comparing actual data with the state procurement plan. The analysis data is provided to the Deputy Chairman of the Board for Infrastructure Development. Twice a year (for the half-year and the year) a report is submitted to the Ministry of Finance to the State Procurement Committee.

Information on the availability of food and medical services for students, and a library within the framework of the EP is provided in the section of the university website (<https://kazatu.edu.kz/ru/pages/universitet/studenceskaa-zizn/departament-po-socialnym-voprosam>).

The development and improvement of the material and technical base of the department is carried out on the basis of the Development Strategy of KATIU named after S. Seifullin, as well as on the basis of long-term and annual plans. The resources used to organize the learning process are sufficient and meet the requirements of the EP.

The development of the material and technical base and information support is carried out in accordance with the standards of the organization "Management of Material and Technical Support" and "Management of Information Resources of the Scientific Library". Management of information resources in the library includes the following processes: modeling, acquisition and accounting, document processing, organization, placement and use of the documentary fund, creation of electronic and traditional reference and bibliographic apparatus (hereinafter RBA), use of own electronic resources.

Planning of material and technical supply begins with the collection of applications from all departments of the university, by November 1. The consideration of applications from departments is carried out at the university rector's office, the final list and volumes of acquisition of necessary material assets are agreed with the heads of departments. The planning and economic department forms a plan for state purchases and calculates financial resources for their acquisition.

Analysis of material and technical supply is carried out quarterly (monthly if necessary) and at the end of the year, by comparing actual data with the state procurement plan. The analysis data is provided to the Deputy Chairman of the Board for Infrastructure Development. Twice a year (for the half-year and the year) a report is submitted to the Ministry of Finance to the State Procurement Committee.

Information on the availability of food and medical services for students, and a library within the framework of the EP is provided in the section of the university website

(<https://kazatu.edu.kz/ru/pages/universitet/studenceskaa-zizn/departament-po-socialnym-voprosam>).

The scientific library plays a major role as an educational resource. As of September 1, 2023, it has a collection of 1,351,106 units, of which 300,488 are literature in the state language, 1,647 are publications on electronic media, 1,720 are publications of the teaching staff (Repository), and 53 electronic resources. Through the university's electronic library, access to remote information resources is provided using the university's IP address range: the domestic resource RMEB to the world's leading electronic libraries: Clarivate InCites (Insight), EBSCO, Elsevier SciVal (Saival), CAB Direct (Kabiabstract), Web of Science, Wiley, Scopus and Russian databases "Lan Publishing House", "eLibrary.ru" (NEB), "IPR SMART".

The volume of educational, educational-methodical and scientific literature is growing and updated annually, and corresponds to the number of students.

The table below shows the library collection update for the 5 years 2019-2023:

Показатели по годам	на 1.01.2019	на 1.01.2020	на 01.01.2021	на 01.01.2022	на 01.07.2023
Общ. фонд библиотеки, всего	873239	856685	929267	1 153943	1 351 106
Новые поступления	13464	20468	4476	3042	2909
Эл. ресурсы	90100	65000	126511	346 896	351102
Обновление фонда, %	11,8	9,9	14,0	30,3	26,21

The OP is supported by information technologies by the Informatization Council. The Informatization Council of the S. Seifullin Kazakh Agrotechnical Research University is a permanent coordinating, advisory and scientific-consultative body of the Academic Council of the S. Seifullin Kazakh Agrotechnical Research University in the field of solving problems in the use and development of information technologies.

In the Kazakh Agrotechnical Research University named after S.Seifullin , social support services for students have been created and are functioning <http://kazatu.kz/ru/rabota-s-molodejyu/socialnoe-obespechenie-studentov-universiteta/> : student self - government bodies (student parliament , KDM , ASK , student council <http://kazatu.kz/ru/rabota-s-molodejyu/komitet-po-dela-molodeji/>) , a school of curators , a medical center and a medical station <http://kazatu.kz/ru/rabota-s-molodejyu/studencheskie-obshchestva/> , sports and cultural and health centers <http://kazatu.kz/ru/rabota-s-molodejyu/klubi/> , student service points <http://kazatu.kz/ru/rabota-s-molodejyu/fakultet-iskusstv-i-tvorchestva/> .

Before the academic year, each student receives a reference guide, an academic calendar and an individual curriculum, formed at the student's request, taking into account the restrictions in accordance with the credit technology of education. The student can find the same information in his personal account <http://platonus.kazatu.kz/>.

Analytical part

As a result of the inspection of the material base facilities, *the members of the EEC note that the university has all the necessary resources to ensure the educational process.* The university buildings and structures comply with current sanitary regulations and fire safety requirements. The university has a variety of educational resources and student support services available . The university has sufficient computer equipment and software.

The management of the EP together with the management of the university regularly create conditions for ensuring the sufficiency of material resources and infrastructure for conducting

scientific research, providing practice bases, integrating science into the educational process, publishing the results of students' research work. The university has created all the conditions for training students, master's students and doctoral students, conducting scientific research, publishing the results of research of the teaching staff, employees and students.

During their studies, students are given the opportunity to choose trajectories, basic and additional programs, *at the same time, it should be noted that during interviews, it turned out that not all students understand the mechanism of choice.*

Strengths/Best Practices:

1. Management OP demonstrated availability of audiences, laboratories and others objects, equipped with modern equipment and ensuring the achievement of goals of the OP

Recommendations of the VEC for OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture:

1. The university management should improve the mechanism for selecting the learning path, discipline modules, as well as the main (Major) and additional (Minor) educational programs in the Platonus information educational environment. Duration: 2025-2026 academic year.

Conclusions of the VEK based on the criteria:

According to the standard "Educational resources and student support systems " 13 criteria were revealed, of which 1 criterion has a strong position, 11 criteria have a satisfactory position, and 1 criterion suggests improvement.

6.9. Standard "Informing the Public"

- *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 information should include support and clarification of the country's national development programs and the system of higher and postgraduate education.*
- *The university management must 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, 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 audited financial statements for the educational program on its own website.*
- *The university must post information and links to external resources based on the results of external evaluation 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

The website www.kazatu.edu.kz provides information on all implemented educational programs with a link to the Register of the Center for Higher Education Development. This website provides the following information: program name; qualifications awarded upon

completion of the EP; duration of study; forms of study; a brief description of the area of application of knowledge; employment prospects; a brief description of skills; a brief content of the program.

All information on the university website (<http://kazatu.edu.kz>), AIS "Platonus", in social networks (Kazakh Agrotechnical Research University" <https://www.facebook.com/kazatu.official/>, page of the Faculty of Power Engineering <https://www.facebook.com/groups/1011972665549604>, Instagram accounts @kazatu.official, mass media for the public and all interested parties meets the requirements imposed on it. Information on the EP web resource: History of the department, department programs, scientific and innovative activities, international cooperation, student life, information on subject Olympiads in the department, contact information, EP accreditation certificates. In the "Applicant" section, a brief description of the EP is provided. Information about the university, EP is posted on social network pages: in particular, on the EP on Facebook, a video about the EP of all levels of training on YouTube, etc.

Information on teaching and learning is indicated in syllabuses, EUMKD, and is posted in the Platonus system. The assessment procedure is uniform for all educational programs and is regulated by VND SO 02.2078-2022 "Organization of monitoring of academic performance during current and midterm assessment of students."

The university press center systematically informs the public about cooperation and interaction with external partners within the framework of the EP, including research institutes and centers, consulting organizations, business partners, social partners, public organizations and partner universities. The active link to the above information is <https://kazatu.edu.kz/pages/universitet/press-centr>.

There is a Department of International Cooperation and Academic Mobility, whose main tasks include supporting and developing international activities and cooperation within the framework of the EP (<https://kazatu.edu.kz/ru/pages/universitet/mezdunarodnoe-sotrudnicestvo/departament-po-mezdunarodnomu-sotrudnicestvu>). The subsections of the center's electronic page contain information about academic mobility partners that is available for viewing. The university's website provides information about academic mobility programs, for example, the results of the competition (<https://kazatu.edu.kz/ru/news/rezul-taty-konkursapo-programme-vnesnej-akademiceskoj-mobil-nosti>).

Information on employment opportunities for graduates of the EP is posted on the website. <https://digital.kazatu.kz/ru/jobs/> in the Vacancies from employer's section.

Information about the teaching staff for the EP is posted on the university website in the "Faculties and Departments" section (<https://kazatu.edu.kz/facultets>). The public is informed about cooperation and interaction with partners within 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. To resolve current issues, there is an e-mail of the dean of the faculty, the head of the department. All interested persons have free access to the employees of the department and the dean's office. The website contains information about the accreditation of the EP, the results of the assessment of students' knowledge in the Republican Subject Olympiads, and the content of the EP.

Analytical part

During the analysis of documents and the content of the website of the Kazakh Agrotechnical Research University named after S. Seifullin, experts found that management are used diverse methods distribution information: Media, web resources, informational networks And etc. The VEC notes that in the area of information dissemination policy, the university demonstrates a policy of openness and involvement in informing the public of applicants, employers, participants in the educational process and all interested parties. The EP management

uses mass media and social networks to disseminate information. The website publishes information about the university's activities and financial statements.

Based on the analysis of available information regarding the educational programs and educational programmes, the commission notes that the information on the university website is available to stakeholders in the educational process (students, teachers, employers, the public), but it is not complete enough and the mechanism for updating it in a timely manner has not been determined. There are no examples of how stakeholders' satisfaction with the quality of information received and its completeness is studied. *It is necessary to refine and regularly supplement the website information in the main sections:* regarding the web pages of departments, the specifics and implementation of educational programmes, information about students and teaching staff, cooperation and interaction with partners, research projects, academic mobility programmes; employment opportunities.

Strengths/Best Practices:

Not observed.

Recommendations of the VEC for OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture:

1. The management of the educational programs shall supplement and regularly update the information on the university website about the specifics of the accredited educational programs, publish on the university website the contingent of students in the accredited educational programs taking into account the dynamics; information about internal and external academic mobility programs; information about cooperation and interaction with partners, information about the creative activities of students and teaching staff, information about research projects, employment opportunities, etc. *Deadline - by the beginning of the 2025-2026 academic year .*

Conclusions of the VEK based on the criteria:

According to the "Public Information" standard, 12 criteria are disclosed, of which 11 have satisfactory positions, and 1 requires improvement.

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

According to the standard “Educational Program Management”:

Not observed

According to the Information Management and Reporting standard:

Not observed

According to the standard “Development and approval of educational programs”:

Not observed

According to the standard “Continuous monitoring and periodic evaluation of educational programs”:

Not observed

According to the standard “Student-centred learning, teaching and assessment of academic performance”:

Not observed

According to the standard "Students":

Not observed

According to the standard "Teaching staff":

1. The management provides opportunities for career growth, motivates the professional and personal development of the teaching staff, offers a wide range of opportunities for advanced training and professional growth.

According to the standard “Educational resources and student support systems”:

1. Management OP demonstrated availability of audiences, laboratories And others objects, equipped with modern equipment and ensuring the achievement of goals of the OP.

According to the “Public Information” standard:

Not observed

(VIII) OVERVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS FOR EACH STANDARD

By standard " Management educational program »

1. The management of the university and the educational institution should expand the geography of domestic and foreign partner universities to implement academic mobility of students and teachers in order to acquire new knowledge and skills with the further prospect of creating joint educational programs. *Deadline - until the beginning of the 2025-2026 academic year*

By standard " Management information and reporting »

1. The university management shall systematically manage information and reporting of all structural divisions of the higher education institution, including departments, centers, etc. *Deadline: annually.*

By standard " Development And statement educational programs »

1. The EP management shall develop a program for the internationalization of educational programs with the further prospect of joint harmonization of the content, learning outcomes, and teaching of specialized courses. *Deadline: until the beginning of the 2025-2026 academic year.*

By standard " Permanent monitoring and periodic grade educational programs »

1. The management of the university and the EP must regularly publish information on changes to the EP on the official website of the university (department) and social networks. *Deadline – annually*

By standard " Student-centered training, teaching and grade academic performance

»
1. The EP management shall ensure the implementation of the results of its own research in the field of teaching methods of the EP disciplines in the educational process. *Deadline: 01.09.2025.*

By standard " Students "

1. The leadership of the OP should develop a roadmap for the development of graduate employment, as well as provide for activities for cooperation with the State Institution "Financial Center" for reliable monitoring of employment using modern digital systems by 01.06.2025.

By standard " Professorial and teaching compound "

1 The university management shall develop regulatory requirements for the use of teaching staff, information and communication technologies and software in the educational process, the use of massive open online courses in specialized disciplines of accredited educational programs. *Deadline: 2025-2026 academic year .*

By standard " Educational resources And systems support students »

1. The university management should improve the mechanism for selecting the learning path, discipline modules, as well as the main (Major) and additional (Minor) educational programs in the Platonus information educational environment. *Deadline: 2025-2026 academic year.*

By standard " Informing public »

1. The EP management shall supplement and regularly update the information on the university website about the specifics of the accredited EPs, publish on the university website the contingent of students in the accredited EPs taking into account the dynamics; information about internal and external academic mobility programs; information about cooperation and interaction with partners, information about the creative activities of students and teaching staff, information about research projects, employment opportunities, etc. *Deadline - by the beginning of 2025-2026*



(IX) RECOMMENDATION TO THE ACCREDITATION COUNCIL

The members of the external expert commission came to a unanimous opinion that the educational programs OP 6B08702 - Energy supply and automation of agriculture, 6B07108 - Automation and energy efficiency of processes and production, 7M07105 - Management of technical systems, 8D08703 - Energy supply and automation of agriculture , implemented by the NAO "Kazakh Agrotechnical Research University named after S.Seifullin", can be accredited for a period of 5 years.



Appendix 1. Evaluation table "Conclusion of the external expert commission"

**Conclusion of the external expert commission on quality assessment
educational programs 6B08702 - Energy supply and automation of agriculture, 6B07108 -
Automation and energy efficiency of processes and production, 7M07105 - Management of
technical systems, 8D08703 - Energy supply and automation of agriculture
JSC "Kazakh Agrotechnical Research University named after S.Seifullin"**

№ p/p	№ p/p	Criteria ratings	Position of the educational organization			
			Strong	Satisfactory	Suggests improvement	Dissatisfied and tel
Standard "Control educational program"						
1	1.	University must demonstrate development goals and development strategies of the OP based on the analysis of external and internal factors with wide attracting a variety of stakeholders		+		
2	2.	Policy provision qualities should reflect connection between scientific research, teaching and training		+		
3	3.	University demonstrates development cultures quality assurance		+		
4	4.	Commitment To provision qualities should treat to any activities, performed contractors and partners (outsourcing), including at implementations joint/double diploma education and academic mobility			+	
5	5.	Management OP provides transparency developments plan development OP on basis analysis its functioning, the real positioning of the university and the focus of its activities on satisfying needs of the state, employers, interested persons and students		+		
6	6.	Management OP demonstrates functioning of the mechanisms for the formation and regular review plan development OP And monitoring his implementations, ratings achievements goals training, correspondence needs students, employers and societies, acceptance solutions, directed on a permanent basis improvement OP		+		
7	7.	Management OP should attract representatives groups interested persons, V volume number employers, students And PPS To forming a plan development of the OP		+		
8	8.	Management OP should demonstrate individuality and uniqueness of the development plan of the OP, his consistency with national development priorities and strategy development organizations education		+		
9	9.	University must demonstrate clear definition responsible for business processes V within the framework OP, distributions official responsibilities personnel, delimitation functions collegial organs		+		
10	10.	Management OP provides coordination activities all persons, hosts participation V development and management OP, and her continuous implementation, An Also involves V this process all interested parties		+		
11	11.	Management OP should provide transparency systems management, functioning internal systems provision qualities, including her design, control and monitoring, adoption of appropriate solutions		+		
12	12.	Management OP should realize risk management		+		
13	13.	Management OP should provide participation representatives of interested parties (employers, teaching staff, students) as part of collegial bodies management of the educational program, as well as their representativeness at acceptance solutions on management issues educational program		+		
14	14.	The university must demonstrate management and innovation V within the framework OP, V volume number analysis and implementation		+		

		innovative offers				
15	15.	Management OP should demonstrate your openness And availability For students PPS, employers and other interested parties persons		+		
16	16.	Management OP confirms passage training in programs management education		+		
17	17.	Management OP should pursuit To to that, to progress, reached with time the last one procedures external provision qualities, was accepted in attention at preparation To the following procedure		+		
Total By standard			0	16	1	
Standard "Control information And reporting"						
18	1.	University must provide functioning systems collection, analysis and management of information based on modern information and communication technologies And software funds			+	
19	2.	Management OP demonstrates systemic use of processed, adequate information For improvements internal systems quality assurance		+		
20	3.	Management OP demonstrates the presence of a reporting system reflecting the activities of all structural divisions And departments V within the framework OP including assessment their effectiveness		+		
21	4.	University must define periodicity, forms And methods ratings management OP, activities collegial organs And structural divisions, higher manuals		+		
22	5.	The university must demonstrate a mechanism for ensuring information security, including the definition responsible persons for reliability and timeliness of information analysis and data provision		+		
23	6.	The university demonstrates the involvement of students and employees And PPS V processes collection And information analysis, A Also decision making on their basis		+		
24	7.	The management of the OP must demonstrate the presence of mechanisms communications With students, workers And others interested persons, in that number conflict resolution		+		
25	8.	University must provide measurement degrees satisfaction needs PPS, staff And students V within the framework OP And demonstrate evidence elimination discovered disadvantages		+		
26	9.	The university must evaluate the effectiveness and efficiency activities, V volume number V in the section OP		+		
		Information, collected And analyzed university within the framework OP, should consider:				
27	10.	Key performance indicators		+		
28	11.	dynamics contingent students V in the section forms and types		+		
29	12.	academic performance, student achievement and dropout		+		
30	13.	satisfaction students implementation OP and quality training V university		+		
31	14.	availability of educational resources and support systems for students		+		
32	15.	employment And career height graduates		+		
33	16.	Students, employees And PPS should confirm documented your own agreement on processing personal data		+		
34	17.	Management OP should to assist to ensure all necessary information V relevant areas sciences		+		
Total By standard			0	16	1	
Standard "Development And statement educational programs»						
35	1.	The university must demonstrate the presence of documented procedures developments OP And her statement on institutional level		+		
36	2.	The university must demonstrate the compliance of the developed educational program with the established goals and planned results training		+		
37	3.	Management OP should define influence disciplines and professional practices to form results training		+		
38	4.	The university can demonstrate the presence of a graduate model OP, describing results training And personal qualities		+		
39	5.	The qualification awarded upon completion of the EP must be clearly defined, explained and consistent certain level NSC, QF-EHEA		+		

40	6.	Management OP should demonstrate modular structure programs, founded on European Credit Transfer and Accumulation System (ECTS), provide correspondence OP, her modules (By content And structure) delivered goals With orientation on achievement planned learning outcomes		+		
41	7.	The management of the OP must ensure compliance with the content educational disciplines And results learning from each other and the level of study (bachelor's, master's, doctoral studies)		+		
42	8.	The management of the OP must demonstrate the implementation of external expertise OP		+		
43	9.	Management OP should introduce evidence of participation students, PPS And others stakeholders in development OP, provision their qualities		+		
44	10.	Management OP should demonstrate positioning OP on educational market, (regional/ national/ international), its uniqueness		+		
45	11.	Important factor is opportunity training of students To professional certifications		+		
46	12.	Important factor is availability double degree OP and/or joint OP With foreign universities			+	
Total By standard			0	11	1	
Standard "Constant monitoring And periodic grade maintained educational programs»						
47	1.	University must provide revision contents And structures OP With taking into account changes market labor, requirements employers And social requests societies		+		
48	2.	University must demonstrate availability documented procedure for monitoring And periodic ratings OP For achievements goals OP. Results data procedures directed on permanent improvement OP		+		
		Monitoring and periodic evaluation of the OP should consider				
49	3.	the content of the programs in the context of the latest achievements of science and technology in a specific discipline		+		
50	4.	changes needs societies And professional environment		+		
51	5.	workload, academic performance And release students		+		
52	6.	efficiency procedures assessments students		+		
53	7.	needs And degree satisfaction students		+		
54	8.	correspondence educational Wednesday And activities of services support goals OP		+		
55	9.	All interested faces should be informed O any planned or undertaken actions V relation OP. All changes, contributed V OP, should be published			+	
56	10.	Support services must identify needs different groups of students and their level of satisfaction with the organization of training, teaching, evaluation, development OP generally		+		
Total By standard			0	9	1	
Standard "Student-centered education, teaching And grade academic performance"						
57	1.	The management of the OP must ensure respect and attention To various groups students And their needs, provision them flexible trajectories training		+		
58	2.	Management OP should provide teaching on basis modern achievements world sciences And practices V areas directions preparation, use various modern methods teaching And ratings results training, providing achieving goals OP, including competencies, skills execution scientific works at the required level		+		
59	3.	Management OP should define mechanisms distributions educational loads students between theory And practice V within the framework OP, provision development contents And achievements goals OP every graduate		+		
60	4.	An important factor is the presence of own research in the field of teaching methods of the OP disciplines			+	
61	5.	University must provide correspondence procedures assessment of learning outcomes for planned results and objectives of the EP		+		

62	6.	University must provide consistency, transparency And objectivity mechanism ratings results training OP. Criteria And methods evaluation of results training should be published in advance		+		
63	7.	Evaluators faces should to own modernmethods ratings results training And regularly increase qualification V this areas		+		
64	8.	Management OP should demonstrate presence of a system reverse connections By use various techniques teaching and ratings results training		+		
65	9.	The OP leadership must demonstrate support learner autonomy with simultaneous management and help with sides teacher		+		
66	10.	Management OP should demonstrate availability of procedure response on complaints students		+		
Total By standard			0	9	1	
Standard "Learners"						
67	1.	University must demonstrate politicsformation of a contingent of students and to ensure transparency of its procedures. Procedures,regulatory vital cycle students (fromreceipts to completion), should be defined, approved, published		+		
68	2.	Management OP should provide for conducting special programs adaptations And support for only What received and foreign students		+		
69	3.	University must demonstrate correspondence their own actions of the Lisbon Recognition Convention, including including the presence and application of a mechanism for recognition results academic mobility students, and Also results additional, formal and informal training		+		
70	4.	University must provide opportunity For external and internal academic mobility students, and Also render them assistance V receiving external grants for training		+		
71	5.	University must actively stimulate students to self-education And development outside basic programs (extracurricular activities)		+		
72	6.	An important factor is the presence of a support mechanism gifted students		+		
73	7.	University must demonstrate cooperation With other educational organizations and national centers "European networks national informational centers By academicrecognition and mobility/ National academic Informational Centers Confessions» ENIC / NARIC With purpose provision comparable recognition qualifications		+		
74	8.	The university must provide students with internship opportunities, demonstrate the facilitation procedureemployment graduates, maintenance With connections with them		+		
75	9.	University must demonstrate procedure issuance graduates of documents confirming the received qualification, including results achieved training		+		
76	10.	Management OP should demonstrate, What graduates programs possess skills, in demand on market labor And What these skills really in demand on market labor		+		
77	11.	Management OP should demonstrate the presence of a mechanism for monitoring the employment and professional activities of graduates			+	
78	12.	An important factor is the existence of an active association/union graduates		+		
Total By standard			0	11	1	
Standard "Professorial and Teaching compound"						
79	1.	The university must have an objective and transparent personnel policy in the context of the EP, including hiring (including invited PPS), professional height And staff development, ensuringprofessional competence total state		+		
80	2.	University must demonstrate compliance with quality composition PPS established qualification requirements, university strategy, goals OP		+		
81	3.	Management OP should demonstrate changing role of the teacher in connection with the transition to student-centered training and teaching		+		
82	4.	University must give possibilities career growth And professional development PPS, V volume number of young people teachers	+			
83	5.	The university must attract specialists to teaching relevant industries,		+		

		possessing professional competencies corresponding requirements OP				
84	6.	University must demonstrate availability motivation mechanism professional And personal development of PPS		+		
85	7.	University must demonstrate wide application of PPS information and communication technologies and software tools in the educational process (for example, on - line training, e -portfolio, MOOS s And etc.)			+	
86	8.	University must demonstrate orientation activities for the development of academic mobility, attraction the best foreign And domestic teachers		+		
87	9.	The university must demonstrate the involvement of everyoneteacher V promotion cultures qualities and academic honesty V university, define contribution PPS, in volume number invited, in achievement goals OP		+		
88	10.	An important factor is the involvement of the teaching staff indevelopment economics, education, sciences And cultures of the region And countries		+		
Total By standard			1	8	1	
Standard "Educational resources And systems support students"						
89	1.	The university must guarantee the compliance of educational resources, V volume number logistical, And infrastructure goals educational program		+		
90	2.	Management OP should demonstrate availability of audiences, laboratories And others objects, equipped with modern equipment and ensuring the achievement of goals of the OP	+			
		University must demonstrate compliance with information resources needs university And implemented OP, V volume number By the following directions:				
91	3.	technological support students And PPS in accordance With educational programs (for example, online learning, modeling, databases, programs analysis data)		+		
92	4.	library resources, V volume number fund educational, methodical And scientific literature By general education, basic And profiling disciplines on paper And electronic carriers, periodic editions, access To scientific databases		+		
93	5.	examination of research results, graduation papers, dissertations on plagiarism		+		
94	6.	access To educational Internet resources		+		
95	7.	functioning Wi - Fi on his territories		+		
96	8.	University must demonstrate, What creates conditions for conducting scientific research, integrations science and education, publication of research results works PPS, employees and students		+		
97	9.	University must pursuit To to that, to educational equipment And software means, used for development educational programs, were similar With used V relevant industries economics		+		
98	10.	Management OP should demonstrate availability of procedures support various groups students, including informing And consulting		+		
99	11.	Management OP should show availability conditions Foradvancement of the student in an individual educational program trajectories			+	
100	12.	University must consider needs various groupsstudents (adults, working people, foreign students, and students with special educational needs)		+		
101	13.	University must provide correspondence infrastructure requirements security		+		
Total By standard			1	11	1	
Standard "Informing public"						
102	1.	The information published by the university must be accurate, objective, current And reflect All directions activities university V within the framework of educational programs			+	
103	2.	Public information should include support and clarification of national programs development countries And higher systems And postgraduate education		+		
104	3.	Management university should use diversemethods distribution information (V volume number Media, web resources, informational networks etc.) For informing wide public And interested persons		+		
		Information, published university about educational program, should be objective And current Andinclude:				

105	4.	target And planned results OP, the assigned qualification		+		
106	5.	intelligence O system assessments educational achievements of students		+		
107	6.	intelligence O programs academic mobility and others forms cooperation With partner universities, employers		+		
108	7.	information about the possibilities of developing personal and professional competencies of students and employment		+		
109	8.	data, reflective positioning OP on marketed educational services (at the regional, national, international levels)		+		
110	9.	Important factor is publication on open resources reliable information O PPS, V in the context of personalities		+		
111	10.	University must publish on own web resource audited financial reporting By OP		+		
112	11.	The university must post information and links to external resources By results procedures external ratings		+		
113	12.	An important factor is the placement of information about cooperation and interaction with partners, including number With scientific/consulting organizations, business partners , social partners and organizations education		+		
Total By standard			0	11	1	
TOTAL			2	102	9	

