«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

JSC "Kazakh Agrotechnical Research University named after S. Seifullin"
for accreditation of a joint educational program
7M08705 "Energy supply and automation of agriculture (2 years)"

in the period from October 29 to October 31, 20 24.

INDEPENDENT ACCREDITATION AND RATING AGENCY
External Expert Commission

Addressed to
Accreditation
IAAR Council

«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ
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Astana city **October 31, 2024**

CONTENT

LIST OF SYMBOLS AND ABBREVIATIONS

RK – Republic of Kazakhstan
RF – Russian Federation
RK MSHE – Ministry of Science and Higher Education of the Republic of Kazakhstan
MA – Ministry of Agriculture of the Republic of Kazakhstan
RF MSHE – Ministry of Science and Higher Education of the Russian Federation
NQF – National Qualifications Framework of the Republic of Kazakhstan
IAAR - Independent Accreditation and Rating Agency
ESG – Standards and Guidelines for Quality Assurance in Higher Education in the European Higher Education Area. Endorsed by the Yerevan Ministerial Conference, 2015.
ECTS – European Credit Transfer and Accumulation System
RK CCSEMES – Committee for Control in the Sphere of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan
RF FSSESME – Federal Service for Supervision in Education and Science of the Russian Federation
KATRU - Non-profit Joint Stock Company "Kazakh Agrotechnical Research University named after S. Seifullin"
TPU – Federal State Autonomous Educational Institution of Higher Education “National Research Tomsk Polytechnic University”
HEI – higher educational institution
EEC – external expert commission
EO – educational organization
EP – educational program
JEP – Joint Educational Program
EMC – educational and methodological council of KATRU
PTS – professorial and teaching staff
D.Sc. (Eng.) - Doctor of Technical Sciences
D.Sc. (Biology) - Doctor of Biological Sciences
PhD - Candidate of Technical Sciences
PhD in Economics
IMSL – information management systems for learning
DAA - Department of Academic Affairs of KATRU
DICAM - Department of International Cooperation and Academic Mobility of KATRU
DESW - Department of Educational and Social Work of KATRU
DD - Department of Digitalization of KATRU
DEAF - Department of Economic Analysis and Forecasting of KATRU
AD - Administrative Department of KATRU

INTRODUCTION

In accordance with the order of the IAAR No. 144-24-OD dated September 13, 2024, the visit of the EEC to the NAO " Kazakh Agrotechnical Research University named after S. Seifullin " in Astana took place from October 29 to October 31, 2024,

According to this order, within the framework of cluster 6, an assessment was carried out of EEC 7M08705 “Energy supply and automation of agriculture” for compliance with the requirements of the standards for specialized accreditation of educational programs of IAAR.

The EEC report contains an assessment of the compliance of KATRU's activities within the framework of specialized accreditation with the IAAR criteria, and EEC recommendations for further improvement of the parameters of the specialized profile.

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

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

IAAR Foreign Expert – Nastasenko 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 , Ph.D., 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, Associate Professor, Kazakh-German University (Almaty); *Off - line participation*

IAAR expert – Sembaev Nurbolat Sakenovich , PhD , 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, PhD, 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 EP 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 EP 6B07101 "Electric Power Engineering", Almaty University of Power Engineering and Communications named after Gumarbek Daukeev (Almaty); *On - line participation*

IAAR expert, student - Pozdnyakov Roman Evgenievich, 3rd year student of the EP 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 EP 7M01504-Biology, Kokshetau University named after Sh. Ualikhanov (Kokshetau); *On - line*

participation

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

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

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

PRESENTATION OF THE EDUCATIONAL ORGANIZATION

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

In 1957, the Akmola Agricultural Institute, the future KATRU, was founded. Over 65 years of operation, KATRU has trained and graduated more than 79,000 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% of educational programs are innovative or double-degree. In the current 2024-25 academic year, the university introduced post-doctoral studies.

In the international ranking QS World University 2025 among 5663 world universities KATRU entered the top 1200+. This ranking confirmed the increased reputation of KATRU 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.

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

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

In the QS World Sustainability Rankings, it is 1051, and in the sustainable development goal “Environmental Impact”, KATRU ranks 535.

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 IAAR, the Kazakh Agrotechnical Research University named after S. Seifullin entered the top three best universities in the Republic of Kazakhstan.

KATRU is a leader in the field of training specialists in the country's agro-industrial complex and is an actively developing higher education institution with 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).

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

KATRU is one of the few universities in the Republic of Kazakhstan 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 studying at the university is: 12,287 bachelors, 369 masters,

191 doctoral students.

The accredited joint educational program consists of 4 master's students.

The educational process at the university is carried out by 785 full-time teachers, including 60 doctors of science, 278,107 candidates of science, 245 masters.

The average age of the university teaching staff is 49 years.

Within the framework of the accredited EEC, the teaching staff is: 21 in total, of which 19 are full-time and 2 are part-time.

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 at the University, dissertation councils operate in separate 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: 8D0730-"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-Processing technology) .

The university creates conditions for the 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.

DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

Joint educational program 7M08705 "Energy supply and automation of agriculture" passed initial accreditation on November 26-28, 2019 and post-accreditation monitoring on November 8, 2021.

Based on the results of the work of the IAAR expert group, measures were developed and implemented to implement recommendations on specialized accreditation standards, brief information on which is provided below.

Comments made during the previous accreditation of the EEC.

Paragraph	Execution
Standard "Management of the educational program"	
2.1.2 Strengthen the involvement of employers and students in the management of the educational program.	95%
2.1.3 Ensure the implementation of measures to involve students in the development and adjustment of the educational program	95%
Standard "Development and approval of educational programs"	
2.2.1 Carry out work on designing educational programs in the profile of accredited specialties together with partner universities	70%
Standard "Student-centered learning, teaching and assessment of academic performance"	
2.3.1 The teaching staff is recommended to have their own research in the field of teaching methods of academic disciplines	95%
2.3.2 Use different teaching and learning assessment methods	85%
Standard "Continuous monitoring and periodic evaluation of educational programs	
Standard "Information Management and Reporting"	
2.5.1 Introduce mechanisms for systematic assessment of university applicants' satisfaction	70 %
2.5.2 Ensure regular implementation of discussions of the results of the assessment of satisfaction with the quality of the educational program of stakeholders at meetings of the collegial bodies of the university	95%
Standard "Students"	
2.6.2 Intensify efforts to find opportunities to ensure academic mobility for students	80%
2.6.3 Carry out work on organizing additional training for students in working specialties	95%
Standard "Teaching staff"	
2.7.2 Work out the issue of additional incentives for teaching staff who regularly publish in publications indexed in international databases and have a high Hirsch index	95%
2.7.5 Develop a corporate standard for electronic courses and a plan for its implementation in the educational process	50%
2.7.6. To increase the level of competence of the teaching staff, the use of innovative methods and forms of teaching in accordance with the objectives of the educational program, taking into account student-centered learning	95%
2.7.7 Strengthen work on developing academic mobility in terms of attracting the best foreign and domestic teachers to conduct classes within the framework of the EP	95%
Standard "Educational Resources and Student Support Systems"	
2.8.1 Strengthen efforts to ensure the participation of master's students in scientific conferences held at the university, as well as to stimulate their publication activity	70 %
Standard "Informing the Public"	

2.9.1 Conduct systematic internal monitoring of the website and assess the extent to which the existing information resource meets modern requirements, goals and objectives of the University as a whole and in terms of educational programs	95%
2.9.2 Supplement the University website with information on audited financial statements, including by EP	90%

The university took measures and actions that contributed to the improvement of the development of public awareness processes, the importance of the role of students in the educational and research activities of the university, and the participation of the teaching staff in competitions for scientific grants at all levels. According to the results of post-accreditation monitoring, out of 27 recommendations: 21 recommendations were implemented by more than 90-100%, which is 78% of the total implementation.

In reviewing KATRU's progress in implementing the recommendations of the previous EEC on EECs, the Commission believes that, while continuing to work on the recommendations that have not yet been completed, the University should focus its efforts on:

- strengthening cooperation with the partner university in the area of designing the accredited EEC, as well as
- ensuring academic mobility of students according to this EEC.

DESCRIPTION OF THE EEC VISIT

The work of the EEC was carried out on the basis of the Program of the visit of the EEC for specialized accreditation of educational programs of KATRU in the period from October 29 to 31, 2024.

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 agreement was reached on the selection of examination methods.

In accordance with the requirements of IAAR standards, the program of the visit included meetings with vice-rectors, heads of structural divisions, the dean, directors of the university departments, teachers, students and employees from structural divisions, interviews and questionnaires of teachers and students. A total of 214 people took part in the meetings. Information from various focus groups is presented in Table 1.

Focus group meetings and document analysis allowed the EEC members to conduct an independent assessment of the compliance of the data presented in the EEC self-assessment reports with the criteria of the specialized accreditation standards.

Table 1 - Information about the staff and students who took part in the meetings with the IAAR 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/special educational programs	6
Teachers	46
Students, master's students, doctoral students	61
University graduates	36
Employers	34
Total	**214**

A visual inspection of the university premises was conducted in order to obtain a general idea of the organization of educational, scientific and methodological processes, the material and technical base, to determine its compliance with standards, and also to obtain an idea of the workplaces of the teaching staff, employees and students.

The experts inspected the educational buildings, the university library, departments, structural divisions, laboratories, specialized rooms, computer labs, educational laboratories, and student practice bases.

During the visit, the EEC experts visited the practice bases for the accredited programs: Astana Electrotechnical Plant LLP, Astana-REK JSC, etc.

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, the university's working documentation was requested and analyzed by external experts. In addition, the experts studied the university's online positioning through the official website of the university .

All conditions were created for the work of the EEC, access to the information resources of the University necessary for the work was organized. The KATRU team ensured the presence of all persons specified in the visit program, observing the established time.

The events planned during the visit of the IAAR 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.

COMPLIANCE WITH SPECIALISED ACCREDITATION STANDARDS

Standard 1. Eligibility (eligibility/threshold requirements)

Evidential part

The EEC is implemented by two partner universities – the S. Seifullin Kazakh Agrotechnical Research University and the Federal State Autonomous Educational Institution of Higher Education National Research Tomsk Polytechnic University.

JSC "Kazakh Agrotechnical Research University named after S.Seifullin" has a license to conduct relevant educational activities No. KZ25LAA00035932 dated November 30, 2023. KATRU has institutional accreditation of the IAAR for 7 years https://kazatu.edu.kz .

Federal State Autonomous Educational Institution of Higher Education "National Research Tomsk Polytechnic University", the functions and powers of the founder of TPU are carried out by the Ministry of Science and Higher Education of the Russian Federation. TPU has a license to carry out educational activities, as well as state accreditation of educational activities for the main professional educational programs in relation to each level of professional education.

There is a cooperation agreement No. 494 between KATRU and TPU from 09/27/2022 to 09/27/2027 https://kazatu.edu.kz . EEC 7M08705 "Energy supply and automation of agriculture" was registered in the Register of the EHEA on 08/19/2019, updated on 08/09/2023.

As a result of completing the EEC 7M08705 "Energy supply and automation of agriculture" you will receive a diploma of the established form indicating the qualification of a master of agricultural sciences in the said EEC.

When developing the EEC, the National Regulatory Acts for the creation of the EEC were taken into account; the awarded academic degrees correspond to the national qualification system of the partner countries.

Coordination of joint activities is carried out at the level of deputy first managers for

international cooperation and educational activities; responsibility is assigned to the Dean of the Faculty of Energy from KATRU and the Director of the School of Energy at TPU.

Admission of students is regulated by state and internal regulations of each party (KATRU - https://kazatu.edu.kz , TPU - https://abiturient.tpu.ru) .

Mobility of students and teachers is carried out within the framework of a cooperation agreement. Detailed financial and other conditions can be negotiated in the form of additional agreements. Mobility of students and teaching staff in accredited educational programs complies with the Rules for organizing mobility in KATRU https://kazatu.edu.kz .

The partner university involved in the development of the curriculum is candidate of technical sciences, associate professor of the Department of Electrical Engineering and Power Engineering Surkov M.A., doctor of technical sciences, professor Yurchenko A.V., doctor of technical sciences, professor Lukutin B.V., candidate of technical sciences, associate professor Galtseva O.V. are actively participating as scientific consultants.

Analytical part

The IAAR EEC, having held meetings, discussions and interviews with the rector, vice-rectors, heads of departments, heads of structural divisions, students, faculty, representatives of employers' organizations and graduates, as well as having conducted a survey of faculty and students, and having familiarized experts in detail with the necessary documents, notes that the collegiality of the processes of forming the EEC is confirmed by the participation of both partner universities in it.

A logically constructed and consistent system of internal quality assurance of the university (Policy and standards of internal quality assurance, IQA of the university) forms a culture of quality at all levels of the university's functioning. However, the members of the EEC note that during the interview, it was revealed that the university employees are not sufficiently informed, and therefore do not sufficiently use the developed IQA in their professional activities.

The members of the EEC note that the main strategic document for the implementation of the EEC, i.e. the Agreement between partner universities, agreement No. 494 of September 27, 2022 , does not disclose all the details and stages of the implementation of the EEC itself; there is no clear statement of the conditions for the development and implementation of the EEC. The agreement is of a general nature, not focused on the EEC itself. The " Regulations on the procedure for developing, approving, implementing and updating educational programs " presented by the management of the VND include clause *6.10. All conditions for the implementation of the EP are stipulated in agreements with partner universities. In this case, the mandatory conditions for the implementation of the joint educational program are:* ... However, during the visit of the IAAR EEC, the university management did not present a similar document, thus the experts were unable to familiarize themselves with the strategic document approved by the partner universities, which includes information on the academic degree (qualification, degrees) awarded for mastering (completion) of the joint educational program, coordination and responsibility of the involved partner educational organizations in relation to management and financial organization (including financing, sharing of costs and income, etc.), rules for admission and selection of students, mobility of students and teachers, rules for conducting examinations, methods for assessing the achieved results of students, recognition of ECTS credits and procedures for assigning joint academic degrees.

During familiarization with the Development Plans of the EP, their uniqueness and individuality are not traced, since the planned activities in them are similar to the plans of other universities of the Republic of Kazakhstan.

At the time of the IAAR experts' visit, the EEC Development Plan posted on the university's website had not been updated. The EEC management needs to review the development plan for the accredited institution. EEC for the purpose of defining its own indicators, taking into account the need for personnel in the regional sector in accordance with the University Development Program until 2029 .

Strengths/Best Practices :
- No.

Recommendations of the EEC:
- The management of KATRU, together with the partner university, shall develop *a joint document* that will agree on the terms of development and implementation of EEC 7M08705 "Energy supply and automation of agriculture". From the date - until 01.04.2025.
- In the Development Plans of the EP the management of the EP shall include information on the awarded academic degree (qualification, degrees) for mastering (completion) of EEC 7M08705 "Energy supply and automation of agriculture". From the date - until 01.04.2025.
- The management of KATRU shall submit on the university website the rules for admission and selection of students for the EEC 7M08705 "Energy supply and automation of agriculture". From the date - until 01.04.2025.
- The management of KATRU should include a section on the implementation of mobility of students and teachers according to EEC 7M08705 "Energy supply and automation of agriculture". Effective date - until 01.04.2025.
- The EP management shall present on the website and communicate to students the rules for conducting examinations, methods for assessing the students' achieved results, recognition of ECTS credits and procedures for assigning a degree in EEC 7M08705 "Energy supply and automation of agriculture". From the date - until 01.04.2025.

Conclusions of the EEC on the criteria of EEC 7M08705 "Energy supply and automation of agriculture" according to the standard "Right to participate (acceptability / threshold requirements)" 10 criteria revealed:
- strong – 0, satisfactory – 4, suggest improvement – 6.

Standard 2. Learning Outcomes

Evidential part

The implementation of the EEC "7M08705 Energy supply and automation of agriculture" is carried out in accordance with the mission, vision and Development Program for 2023-2029 of KATRU named after S.Seifullin .

The aim of the Master's program "7M08705 Energy supply and automation of agriculture" is to create conditions for an effective educational process for the formation and development of personal, socio-cultural, general engineering and professional competencies in the field of energy supply and automation of agricultural processes.

The EEC complies with the National Qualifications Framework, the Sectoral Qualifications Framework, the European Qualifications Framework, professional standards, the Atlas of Emerging Professions, and is consistent with the Dublin Descriptors.

The results of training in the EEC provide grounds for obtaining the qualification of Master of Agricultural Sciences in the educational program "7M08705 Energy supply and automation of agriculture".

The graduate model is formed by general educational, basic and professional competencies. The EEC disciplines ensure the achievement of planned learning outcomes, including knowledge, skills and general educational, basic and professional competencies in the relevant area (areas) of education

According to the current professional standards of level 7 in this industry, a Master of Agricultural Sciences in the educational program "7M08705 Energy supply and automation of agriculture" can be employed in the following types of professions: electrical engineer; power

engineer; testing and adjustment engineer; reliability operation engineer; laboratory manager; shift supervisor; head of the chief power engineer's service; developer-designer of autonomous power systems .

Successful mastery of the disciplines of the compulsory and university components, as well as the elective component, allows developing competencies and achieving the stated learning outcomes. The content of the disciplines of the BD and PD cycles corresponds to the profile of the trained specialists in the field of energy and automation.

Analytical part

The procedure for development, the structure of the educational program, the organization and conduct of the examination of the educational program, the requirements for the design, coordination, approval of educational programs in KATRU are regulated by the VND "Regulations on the procedure for the development, approval, implementation and updating of educational programs", "Regulations on the procedure for developing a Development Plan for an educational program and monitoring its implementation".

The implementation of the EEC is carried out in accordance with the EEC Development Plan, considered at the extended meeting of the Department of Electrical Equipment Operation dated 06/27/2024, Protocol No. 11, the KATRU Development Program (Protocol No. 4 dated 05/29/2024), which indicate the goals, objectives, possible risks and measures to achieve the set goal, indicating the responsible persons and structural divisions.

The formation of individual educational trajectories is carried out on the basis of the CED, which contains a list of all disciplines of the component for choice, indicating the purpose of study, brief content and expected results of study, and students who participate in the survey to determine educational trajectories for choice, the choice of elective disciplines for the CED are involved in the formation of the EP. During the conversation with students, this procedure was confirmed.

The EEC has been developed in accordance with the stated objective, including the expected learning outcomes. The objective of the EEC of the Master's degree program "7M08705 Energy Supply and Automation of Agriculture" is to train highly qualified specialists jointly with TPU (RF) at the international level in the field of energy supply and automation of agricultural processes by creating conditions for an effective educational process for the formation and development of personal, socio-cultural, general engineering and professional competencies. To achieve this goal, the EP management forms a methodological base through the EEC disciplines focused on achieving the planned learning outcomes, including knowledge, skills and competencies in the relevant field of education. For example, when conducting interviews during the visit, where partners from TPU were also present online, the expert group was convinced that the learning outcomes of the EEC, the substantive part of the disciplines were developed with the participation of both partner parties, and are recognized by the partner universities.

According to the requirements of the organization of the educational process, the qualification obtained as a result of mastering the EEC is clearly defined and corresponds to the level of the national qualification framework in higher education. All disciplines of the EEC are aimed at achieving the planned learning outcomes, including knowledge, skills and competencies of students of the accredited program, which is traced in the KED, syllabuses and educational and methodological complexes.

The analysis of the submitted documents, the results of the survey of the teaching staff and employers, as well as students, allow us to state that interested parties are involved in the design of the EP. The content of the academic disciplines within the EEC generally takes into account the situation on the labor market, the requirements of employers and the needs of consumers.

Strengths/Best Practices :

- No.

Recommendations of the EEC:

- EEC management shall submit a roadmap for the implementation of the EEC in the development plan of the EP and begin its implementation, update the information and post the approved version on the KATRU website. Deadline - until 01.04.2025 .

Conclusions of the EEC on the criteria of EEC 7M08705 "Energy supply and automation of agriculture " according to the standard "Learning outcomes" 5 criteria revealed:

- strong – 0, satisfactory – 5, suggest improvement – 0.

Standard 3. Development and approval of the program

Evidential part

EEC "7M08705 Energy supply and automation of agriculture" is part of the group of educational programs M135 - Energy supply of agriculture, the training area "7M087 Agroengineering", the field of education "7M08 Agriculture and bioresources".

The structure and content of the EEC "7M08705 Energy supply and automation of agriculture" are developed on the basis of a student-centered approach to training, and ensure the achievement of the planned results.

The development and formation of the EEC " 7M08705 Energy supply and automation of agriculture" is carried out with the participation of all interested participants in the educational process "teacher-student-employer".

The University has a mechanism for monitoring and assessing the quality of the educational program, which is described in the Regulation on the procedure for developing, approving, updating educational programs dated April 25, 2024. A stakeholder survey is regularly conducted to assess the quality of the EP implementation. Students and teachers are involved in the internal assessment, analyzing the educational and methodological, logistical, pedagogical and educational activities. Based on the results obtained, the degree of satisfaction of the participants with the educational process is assessed and corrective measures are developed.

The EEC is aimed at developing basic and professional competencies related to research and practical activities, taking into account the requirements of employers and partner universities, as well as the needs and interests of master's students.

EEC "7M08705 Energy supply and automation of agriculture" allows you to choose a profile in energy supply or automation of agriculture. This is possible by choosing elective disciplines, the number of which is 12 units (total workload 54 ECTS) from 22 disciplines.

The students' academic workload consists of classroom studies, independent work of the student with the teacher in the form of consultations, and independent work of the students. One credit of an academic discipline (ECTS) is 30 academic hours, of which at least 10 hours are classroom studies (lectures, practical, laboratory, seminars), 4 hours - for work with the teacher and 16 hours - independent work.

For the EEC, in accordance with the course and curriculum, a schedule of the educational process is drawn up, taking into account the timing of theoretical training, professional practices, the implementation of research and development work, and vacations.

To consolidate theoretical knowledge, professional practice (research, teaching practice) is implemented, which is carried out in accordance with work programs drawn up taking into account the key competencies of the program together with employers in accordance with the Dublin descriptors, curricula. Practice is carried out within the timeframes determined by the schedule of the educational process.

Analytical part

The development and approval of the content of the EEC is carried out in accordance with the Academic Policy of the University . The analysis of the submitted documents, the results of the survey of the teaching staff and employers, as well as students, allow us to assert that interested parties are involved in the design of the EEC. The content of the academic disciplines within the EEC generally takes into account the situation on the labor market, the requirements of employers and the needs of consumers. Documents are presented demonstrating the systematic work on the quality of modular educational programs.

The development and updating of the content of the EEC is carried out by the Academic Committee of the University. The content of the EEC is determined by the University in cooperation and interaction with employers, heads of practice bases, graduates and students of the EP and is updated annually by 20-30% due to the introduction of new elective courses of the basic and specialized cycles in accordance with the goals and objectives of the disciplines, indicating the learning outcomes of the modules, their volume and duration.

The introduction of modern research into the EEC is realized through the inclusion of specific disciplines, updating of disciplines and their content, as well as through the publication of educational, educational and methodological literature and the publication of scientific articles.

Taking into account the development of the electric power industry, the intellectualization of electric power systems, the use of digital electrical equipment and substations, the EEC experts note the absence in the EEC “ 7M08705 Energy supply and automation of agriculture” of disciplines/training modules that develop IT competencies in students (programming languages, programmable logic controllers, etc.) .

The members of the EEC note that during the interviews, employers of EEC expressed a desire to strengthen the practical training of students for the fastest possible adaptation of EEC graduates to the realities of the labor market. *During the interviews of the EEC with the faculty of EEC, representatives of practice bases and graduates of EEC, an opinion was expressed* about increasing the time of industrial practice at enterprises .

The EEC Guide demonstrates the possibility of professional certification of students, however, *the members of the EEC pay special attention* to the creation of conditions and expansion of opportunities for the preparation of students of the EP for professional certification within the framework of the EEC disciplines. These activities should be aimed at improving the professional competence of students taking into account the EEC profile and ensure sufficient conditions for certification , confirmation of qualifications within the framework of the adopted Law on Professional Qualifications .

The quality assessment of the EEC was conducted based on the analysis of curricula, the catalog of elective disciplines, the teaching and methodological complex, meetings with students, the teaching staff, class visits, a video tour of the scientific library, gym, and dormitory. During meetings with the teaching staff, employers, and students of the EEC, it was established that they have a clear idea of the methods and forms of inclusion in the work on developing the EEC.

Strengths/Best Practices :

- No.

Recommendations of the EEC:

- In order to increase the practical orientation, the EP management should review in the curricula the ratio of hours for lectures and practical/laboratory classes and credits allocated for the professional practice of students. Deadline: until 01.04.2025 .
- To the EEC management introduce into the MEP a training module of two or three disciplines on the formation of IT competencies in students. Deadline: 01.04.2025 .
- The management of EEC 7M08705 "Energy supply and automation of agriculture" shall

include a roadmap for professional certification in the development plan of the EP and, if necessary, corresponding adjustments to the MOP and begin its implementation. Deadline - until 01.09.2025 .

Conclusions of the EEC on the criteria of EEC 7M08705 "Energy supply and automation of agriculture" according to the standard "Development and approval of the program" 5 criteria revealed:

- strong – 0, satisfactory – 5, requires improvement – 0.

Standard 4. Admission, Progress, Recognition and Certification of Learners

Evidential part

The formation of the contingent of students in areas and levels of education at NAO "KATRU 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 in the areas of training university specialists.

The rules for admission to KATRU named after S. Seifullin are posted on the University website.

National Research Tomsk Polytechnic University regulates the procedure for admission to the Master's program in accordance with the regulatory documents of the Russian Federation and internal rules.

The contingent of students under the EEC is formed by admitting individuals to the number of students who are best prepared for studying at a university, who have consciously chosen a group of educational programs and scored the required number of points based on the results of comprehensive testing based on a government order (grant) and (or) on a commercial basis .

Enrolled students learn about the procedure for forming the contingent in the organizational structures of the university, such as the admissions committee, dean's office, department and student service center. Applicants create an account in the AIS Platonus , where all personal data necessary for training is entered. WhatsApp groups are created with the appointment of an adviser who oversees the academic achievements of students.

Presentation week (https://kazatu.edu.kz) allows to give a general idea of the educational process, where work with information resources, functioning of the administrative and management system, location of social and household units, availability of cultural and educational centers, etc. are explained (https://kazatu.edu.kz).

The progress of university students is monitored through Internet resources (http://platonus.kazatu.kz/), here each student , as well as their parents , can track the students' progress .

Recognition of educational qualifications, periods of study and previous education is an integral part of ensuring the academic success of students in the learning process. When entering the Master's program in the EP "7M08705 Energy Supply and Automation of Agriculture", previous education is taken into account, as well as the study of prerequisites, which are the discipline "Theoretical Foundations of Electrical Engineering" in the amount of 5 ECTS .

If the prerequisites have not been studied sufficiently, which is possible when entering from another direction of the EP, for example, from economics, the master's student has the opportunity to master the prerequisites in accordance with the internal rules. Mastering the prerequisites is carried out on a fee-paying basis in accordance with the Regulations of KATRU.

Recognition of learning outcomes obtained through non-formal education, as well as the results of recognition of professional qualifications, is carried out on the basis of a joint order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated October 24, 2023

No. 544 and the Minister of Education of the Republic of Kazakhstan dated October 24, 2023 No. 322, as well as on the basis of the organization standard VND 02.2065 - 2020 Recognition of learning outcomes of the previous level of formal education and crediting of disciplines studied earlier (Appendix 10)

All actions of the University comply with the Lisbon Convention on the Recognition of Educational Documents and the Order of the Minister of Science and Higher Education of the Republic of Kazakhstan No. 268 dated June 12, 2023 “On approval of the Rules for the recognition of educational documents”.

Analytical part

The University demonstrates the presence of a transparent policy and effective mechanisms for the formation of a contingent of students in the context of EEC, regulation of all types of practices, support and adaptation of students.

The management of the EEC dismantles the implementation of special programs for the adaptation and support of EEC students through a system of discounts and benefits for EEC students (winners and prize-winners of republican subject Olympiads, representatives of families with disabilities or pensioners, persons left without parental care, persons with disabilities; based on academic performance, etc.).

As a result of an online visit to the graduation department and studying the documents, the members of the EEC confirmed that there is a high percentage of employment of EEC graduates. However, it should be noted that the contingent of students in the accredited MEP is low, to which the IAAR experts recommend developing a comprehensive plan for the recognition of the SEP and attracting graduates of KATRU and other OVPO .

The members of the EEC note the successful practice of attracting graduates as employers. Within the framework of the accredited EEC, conditions are created for the academic mobility of students, cooperation agreements have been concluded with a number of foreign universities, including with a partner university for the development of the accredited EEC.

During the interviews, the EEC members found out that after graduating from the university, students get jobs in their specialty in organizations where they successfully completed industrial and research internships, and achieve growth in positions. This fact was confirmed during a meeting with graduates of the EEC.

There is an Association of Graduates in KATRU. *During the interviews with graduates by the Higher Attestation Commission, their weak participation in the activities of the existing University Association of Graduates was established. The members of the Higher Attestation Commission note the need to intensify the activities of the Association in organizing various events as a platform for open dialogue between students and the University administration.*

Strengths/Best Practices :

- No.

Recommendations of the EEC:

- The KATRU management shall develop an action plan for the analysis, monitoring and improvement of the university's activities, focusing on the activities and performance of the alumni association. Deadline - 01.04.2025 .

- The University management shall introduce a requirement for conducting early career guidance activities in the University's marketing policy according to EEC 7M08705 "Energy supply and automation of agriculture". Deadline - until 01.04.2025 .

- The management of the accredited EEC shall develop a mechanism for forming the contingent of students in accordance with the needs of employers for EEC graduates. Deadline: 01.04.2025 .

- The management of KATRU and the EEC shall ensure a PR marketing policy within the framework of the accredited EEC, develop and approve an action plan by a collegial body with the participation of the partner university. Deadline - 01.04.2025 .

- The management of EEC 7M08705 "Energy supply and automation of agriculture" shall analyze the reasons for the decrease in the number of students and develop a comprehensive plan for recognizing the EEC and attracting graduates of KATRU and other higher education institutions. Deadline - 01.04.2025 .

Conclusions of the EEC on the criteria of EEC 7M08705 "Energy supply and automation of agriculture" according to the standard "Admission, academic performance, recognition and certification of students" 3 criteria revealed:

- strong – 0, satisfactory – 3, require improvement – 0 .

Standard 5. Student-centred learning, teaching and assessment

Evidential part

The EEC management implements student-centered learning processes in educational programs: ensures the development of flexible learning paths; creates conditions for increasing the motivation and involvement of students in the educational process; ensures consistency and objectivity in assessing learning outcomes.

The university has a regulation on inclusive education of the NAO "KATU named after S.Seifullin" https://kazatu.edu.kz . For convenience , a map of accessibility for people with disabilities was created . The university also has a Center for Inclusive Support .

For each discipline of the EEC, a discipline program (syllabus) is compiled, which takes into account an individual approach to teaching individuals with special educational needs. When teaching individuals with special educational needs, the choice of teaching methods is carried out by the teaching staff and is determined in each individual case by the goals of training, the initial level of existing knowledge, skills, abilities, the level of professional training of the teacher, methodological and material and technical support, the peculiarities of perception of information by students, based on their accessibility.

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.

Organizational forms of training: full-time, independent work of the student (under the supervision of the teacher and without), lecture, practical lesson in the classroom, seminar, consultation, exam.

Teaching methods used by the teaching staff: verbal – explanation, conversation, discussion, lecture, note-taking; visual; practical; problem-based; interactive.

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 the University's faculty use the AIS "Platonus", the LMS MOODLe, as well as platforms for conducting online classes ZOOM, CiscoWebex, Hangouts, etc.

To assess the knowledge of students, a point-rating letter system of assessment is used , where the objective assessment of the achievements of each student is ensured and the rules for converting into ECTS grades are in effect . The educational achievements (knowledge, abilities, skills and competencies) of students are assessed in points on a 100-point scale, corresponding to the letter

system with a digital equivalent accepted in international practice and grades according to the traditional system.

The policy for assessing the academic achievements of students complies with the requirements presented in the Academic Policy https://kazatu.edu.kz .

The university has created an anti-corruption compliance service to maintain high standards and zero tolerance for corruption https://kazatu.edu.kz .

Every year, advisers and the head of the department work with first-year students to select a specialization of training within the framework of the EEC. In accordance with the requirements of the credit technology of education and the state educational standard, students have the right to choose elective disciplines in order to form an educational trajectory.

The development and formation of EECs takes place with the participation of all interested participants in the educational process "teacher-student-employer" and adheres to principles such as:

- be in demand on the labour market, meet the needs of potential consumers, take into account the possibilities of international student exchange, comply with the national qualification framework and the requirements of professional standards;
- contain a precise description of the EEC leading to the degree, including descriptions of learning outcomes, workload (amount of academic credits), approaches to learning and teaching, methods and criteria for assessing the learning outcomes of students;
- flexibility of the structure of the EEC to enable students with different profiles or needs to choose an individual learning path and offer additional types of educational activities;
- the relationship between expected learning outcomes, learning activities and assessment of learning outcomes with the aim of bringing competence to the disciplines included in the modules and introducing a competence-based approach into the educational methodological complex of disciplines.
- use of digital technologies in teaching methods.

The final assessment for all levels of education, for all courses and forms of study is carried out in the form of computer testing in the AIS "PLATONUS" or in written form.

The policy for assessing students' academic achievements is based on the principles of academic honesty. Students, faculty and staff of the University must adhere to the Code of Academic Honesty **.**

In case of violation of rights, each student can contact the Student Ombudsman https://kazatu.edu.kz .

Analytical part

During the visit of the EEC, visits to practice bases, interviews with teaching staff, students, graduates and employers, it was established that for high-quality training of graduates according to the EEC, KATRU demonstrates student-centeredness in the learning process through increasing the motivation and involvement of students in the learning process.

Within the framework of the implementation of EEC 7M08705 "Energy supply and automation of agriculture", the procedure for training students along an individual educational trajectory is monitored based on the Academic Policy, the procedure for registering students for academic disciplines, conducting current, midterm and final control, midterm and final certification, organizing the passage of students' practices, etc. is established. Individual needs of students are manifested when choosing elective courses, which is carried out on the basis of the Catalog of Elective Disciplines. The selected elective courses are recorded in the AIS "Platonus". The members of the EEC made sure that students of the EEC have the opportunity to choose a discipline, a scientific supervisor, and agree on the topics of dissertations with their scientific supervisor. Practitioners actively participate in the educational process.

The members of the EEC note that the principle of gender equality applies to all students.

Equal access to educational, research, and educational activities operates. Ensuring equal opportunities for students is achieved by the completeness of educational, methodological, organizational, methodological, and information support for the educational process, such as the formation of an individual curriculum; the possibility of studying within the framework of academic mobility; the possibility of using the electronic library, the Republican Interuniversity Electronic Library, etc.

The management, where possible, takes into account the needs of different groups of students, thereby providing them with flexible learning paths, including those with special educational needs. Feedback with students is established on an ongoing basis.

The assessment scale based on the point-rating and letter system serves as a tool for measuring students' knowledge. *However, the members of the EEC, based on the results of interviews with students, analysis of syllabuses and personal pages of teachers, note the importance of informing students about the assessment criteria used, about exams and other types of control, both in syllabuses and on personal pages of teachers (grade journal). In the Platonus IS , grades should be given with the regularity shown in the syllabuses.*

To ensure successful acquisition of skills and abilities by students, the EEC guide demonstrates the wide application of innovative methods such as case studies, analysis of specific situations, project technology, extended lectures, dialogue learning, preparation of analytical essays, individual and group presentations, etc., which stimulate students to play an active role in the educational process.

However, the EEC found that the teaching staff has not conducted its own research in the field of methods for teaching professional disciplines according to the accredited EEC. During the interview, students were unable to confirm the presence of their own methods in teaching EEC disciplines. Based on the results of the analysis of syllabuses and review of classes, the EEC members note the need to develop their own research *and adapt existing innovations, methods and teaching methods according to an individual scenario within the disciplines implemented by the teaching staff of the EEC.*

The EEC notes that student-centred learning requires a rapid response to all changes and additions to the content of the EEC, taking into account the rapid pace of development of the labour market, and requires accessibility of information for all interested groups on all changes in the content and activities carried out during the implementation of the EEC.

The EEC IAAR notes that based on the results of the survey of the faculty, the University management needs to pay attention to the planning of the educational process, so in the context of the answers to questions related to the possibility of encountering various difficulties, 42.9% or 24 people answered "sometimes" in relation to the imbalance of the academic load by semesters, in relation to the lack of interest in students to study 51.8% or 29 people also answered "sometimes". In the context of overcrowding of study groups / too many students in a group 39.3% of respondents or 22 people, as well as inappropriate conditions for classes in classrooms 32.1% of the faculty or 18 people answered that they "sometimes" encounter these difficulties.

Strengths/Best Practices :

- No.

Recommendations of the EEC:

- The EEC management shall develop and approve a document regulating the implementation of the educational process of its own research and the adaptation of existing innovations, methods and teaching methods according to an individual scenario within the framework of disciplines implemented by the EEC teaching staff. Deadline - until 01.04.2025.

Conclusions of the EEC on the criteria of EEC 7M08705 "Energy supply and automation of

agriculture" according to the standard "Student-centered learning, teaching and assessment of academic performance" 5 criteria revealed:

- strong – 0, satisfactory – 5, requires improvement – 0 .

Standard 6. Student Support

Evidential part

At the university, the EP management conducts special adaptation programs for admitted students: studying the personal characteristics of first-year students , a round table with the participation of representatives of social, extracurricular, educational work , holding a curatorial hour during which various problems of first-year students will be discussed, and various events will be held , development and improvement of educational programs for admitted students , organization of practical classes that contribute to increasing the level of awareness of all the difficulties of the adaptation period, mastering ways to overcome them and develop constructive communication skills , organizing work with curators and teachers, individual and group consultations of students and teachers .

Information O beginning selection candidates For participation in external academic mobility Also is placed on website KATRU named after S.Seifullin . Responsible executor , postgraduate support service – Department of International Cooperation and Academic Mobility provides registration statements students about intention accept participation in external academic mobility (application letter) And forms list candidates For participation V testing on definition level possessions English language. Organization external academic mobility is carried out on basis three-way contracts And agreements for training By program academic mobility, prisoner between KATRU named after S.Seifullin, partner university And participant external academic mobility.

The following student collegial bodies operate at the University: the Youth Affairs Committee; the Alliance of Students of Kazakhstan; the youth wing of the Zhas Otan party; the student parliament; the student council; the student trade union committee; the debate club Amanat https://kazatu.edu.kz .

The research work of students is carried out in accordance with the annual and long-term plans of the Academic Council of KATRU named after S. Seifullin, research and development and research, the Council of young scientists, faculty and department. A system of support service for students is in place. Systematic work is carried out to create the most favorable conditions for the high-quality provision of educational services, social support for students, and the necessary conditions for their personal development and education are created. During the academic year, the needs, requests, and interests of students and teachers are regularly studied through sociological surveys and questionnaires to identify public opinion.

Employment of graduates is carried out mainly through an annual job fair. Potential employers are invited to the graduate fair, and interviews are held with graduates of two levels of study.

The University has a mentoring system. A mentor is an experienced professional, a source of knowledge and answers in various fields. Mentoring helps to grow in a career, build strong relationships with others. There are mentors at the graduating departments https://kazatu.edu.kz .

Social support for students at the University is a priority area of the development plan of the Kazakh Agrotechnical Research University named after S.Seifullin. The university management pays attention to the conditions of students of different social categories.

In order to provide financial support to students left without parental care, financial assistance is regularly allocated from the funds of the Student Fund and the University Development Fund. Students in this category live in student dormitories for free, use the Internet, and eat for free in the University canteens.

Taking into account the social status of student youth, favorable conditions have been created in student dormitories, i.e. the cost of living in a dormitory is low.

Foreign students take an active part in the social and cultural life of the University. With the participation of foreign students, the University holds various events: meetings, round tables, Olympiads, conferences and seminars.

To improve language skills, the university offers courses, if necessary, in Kazakh, Russian, English, French and Chinese https://kazatu.edu.kz .

Analytical part

As a result of a visual inspection of the material base facilities, interviews with the management, as well as the university faculty, *the members of the EEC particularly note the provision of the educational process of the accredited EEC with all the necessary educational and material assets, creating favorable conditions for conducting scientific research, integrating science and education, publishing the results of scientific research work of the faculty, employees and students* . *The members of the EEC note* the favorable conditions provided by the university management to young scientists, the holders of which are given the opportunity to acquire the necessary scientific and technical means for conducting research and publish in rating journals, thereby strengthening the material and technical base of the university and increasing the publication activity of the university. The buildings and structures of the university comply with current sanitary standards and fire safety requirements. The classroom and laboratory facilities, classrooms and other premises, sports facilities comply with the established standards and rules. Instructions, Regulations on safety engineering, fire safety, technical maintenance of classrooms, in assigned classrooms have been developed .

Students have access to educational materials and buildings. Technological support for students and teaching staff is provided with the help of the AIS "Platonus". Wi-Fi zones have been created at the university, providing access to the corporate network and the Internet.

A unified system of library and information services has been created. The purchase of educational and methodological literature at the request of the department is carried out in sufficient volume. The information support of the University meets the requirements of the program; the library contains all the materials necessary for training: educational, technical, reference and general literature, various periodicals. The library has an electronic catalog that allows you to search for the necessary literature and provides access to electronic versions of individual textbooks and educational and methodological materials, including those developed by the teaching staff of the University. EEC 7M08705 "Energy supply and automation of agriculture" is equipped with the necessary classrooms, training laboratories, computer classes, gyms, etc.

As a result of the inspection of the material and technical base of the accredited EEC and interviews with the university management, heads of structural divisions, teaching staff and students, the members of the EEC noted positive dynamics in the growth of the acquisition of necessary research, educational and laboratory, and multimedia teaching aids during the reporting period .

A survey of the teaching staff and students during the visit of the IAAR EEC revealed that students highly rate the technical equipment, in particular, they are completely satisfied with: “available computer classes” - 87.9% or 58 people, “available scientific laboratories” - 84.8% or 56 people.

During the visit of the IAAR EEC and inspection of the University’s material and technical base, the experts were convinced that the University’s management pays attention to providing educational services for individuals with special educational needs.

Strengths/Best Practices :

- No.

Recommendations of the EEC:

- No.

Conclusions of the EEC on the criteria of EEC 7M08705 "Energy supply and automation of agriculture" according to the standard "Support for students" 4 criteria revealed:

- strong – 0, satisfactory – 4, requires improvement 0 .

Standard 7. Resources

Evidential part

The criteria and processes of competitive selection, appointment and promotion of the teaching staff are clearly and openly described in the relevant corporate documents , which are published on the website of the KATRU University. The procedure for hiring teaching staff for the accredited EEC complies with the regulatory documents and laws of the Republic of Kazakhstan.

The personnel policy at KATRU is carried out in accordance with the priorities of the Strategy and Development Program of the University for 2025-29, approved by the Academic Council on 01/25/2024 (minutes No. 8).

The personnel policy at KATRU is carried out in accordance with internal regulatory documents: *Regulations on the rules for competitive filling of vacant teaching staff positions* from 2021 and *Regulations on the procedure for forming the staff of the teaching staff of departments* from 2022

The selection of teachers for vacant teaching staff positions is carried out on the basis of a competitive selection based on a questionnaire based on the results of the applicants' activities, expert assessment, testing, interviews, creative reports, publication in rating journals, followed by the conclusion of an employment contract.

Information about competitions , requirements for experience and qualifications of participants , documents submitted for the competition and other data are published on the KATRU website.

Details on the composition, academic and scientific activities of the teaching staff of the specialized 'Department of Electrical Equipment Operation' of the accredited EEC are presented on the KATRU website.

internal work regulations of the university are published on the KATRU website.

As of September 1, 2023 , the university library has a collection of 1,351,106 units (300,488 - collection of literature in the state language, 1,647 - publications on electronic media, 1,720 publications of the teaching staff (Repository), 53 electronic resources).

Analytical part

KATRU hires teaching staff for teaching on a competitive basis and in accordance with the legislation of the Republic of Kazakhstan and regulatory corporate documents, and their selection is dictated by the needs of the accredited EEC.

Each hired PTS KATRU provides a work station with a computer, other equipment and tools, unlimited corporate access to the Internet, literature and technical documentation, access to a number of international information resources.

KATRU organizes periodic advanced training/internships for teaching staff either at the university itself, or teaching staff are sent to other universities or specialized educational centers of the Republic of Kazakhstan.

The University manages its human resources based on its development strategy, taking into account the specifics of the EEC, using the results of periodic assessments of the teaching staff, control visits to classes, sociological surveys of students and other mechanisms.

KATRU is actively involved in research and development and, as a result, the publication activity of the faculty is high. This is facilitated by competitions for grant and program-targeted financing of the Ministry of Higher Education of the Republic of Kazakhstan, as well as the wide participation of the university faculty in national and international projects.

The individual work plan of a teacher for the academic year is the main document that is discussed at a department meeting and approved by the vice-rector of the university.

The implementation of the individual plan of the teaching staff is reviewed at a meeting of the relevant department at the end of the semester and at the end of the academic year.

The university practices mentoring of students, which helps them grow in their careers and build strong relationships with others. *The university's mentoring program* is published on the university's website.

In addition, the university provides the faculty with a range of health and sports services, and, if necessary, provides the faculty with the opportunity to live in the university's service apartments.

Monitoring of the studies of students in socially vulnerable situations is carried out by teachers - curators from the relevant department.

At KATRU, academic mobility of the teaching staff is focused primarily on inviting foreign scientists to conduct classes with students. The University also attracts leading specialists from enterprises and organizations with practical work experience to the training process according to the EEC, part-time or as participants in webinars.

To this end, the University has signed a number of cooperation agreements with leading universities, as well as with organizations and enterprises of the Republic of Kazakhstan in the relevant industry.

The cooperation agreement between KATRU and the partner university - TPU on EEC was concluded on September 27, 2022 and is valid for 5 years with subsequent extension for another 5 years.

The agreement provides for cooperation between universities in research and educational activities and provides for the mutual exchange of PPR for training, internships, industrial practices and mutual exchange with students in bachelor's and PhD programs .

The agreement also includes cooperation in the field of double-degree education in bachelor's, master's and doctoral programs with the issuance of diplomas from partner universities.

The conditions for the implementation and financing of the activities specified in the Agreement must be set out in separate Agreements between the parties.

To sum up, the teaching staff available at KATRU is sufficient to implement the joint educational program; it is highly qualified and corresponds to the profile of the educational program.

A survey of faculty and students revealed areas requiring improvement and in this regard the following recommendations were formulated:

- The specialized department of the PO EEC should more actively promote faculty with an academic degree of candidate or PhD to the position of associate professor; the faculty of the department is insufficiently involved in the process of making management decisions at the university, and the innovative activities of the faculty and young specialists, their professional growth are relatively poorly encouraged.
- Not all faculty members of the department who teach subjects within the EEC use effective teaching methods and are able to present the course material in an attractive manner for students. A survey of students shows that more than 19% of teachers present the course material in a boring and uninteresting manner.

The educational buildings and dormitories of the University comply with the sanitary and hygienic requirements of the Republic of Kazakhstan imposed on educational institutions for EEC, and the university's classrooms and laboratories are equipped with comfortable tables, chairs, boards, as well as projectors and the required computer and laboratory equipment.

The University provides the Internet for the faculty and students via corporate WiFi access points. The territory of KATRU is guarded and access to the inside of the classrooms, laboratories and dormitories of the University is provided to students with individual passes. During their studies, each student receives an individual account for access to library files and to the corporate information systems Platonus and Moodle .

During meetings with the faculty, problems were raised with the insufficient number of toilets in the KATRU academic buildings, in particular their overload during breaks between classes; there are also difficulties with the coverage area of the university territory with high-speed Internet.

KATRU provides access to students of the accredited EEC to significant national and international information resources: Web of Science, EBSCOhost, Cab Direct, IPR Smart, Lan.

The management of the financing of the educational program and the material and technical base of the university is assigned to the DEAP KATRU, and the labor relations with the teaching staff and employees and their professional development are handled by the AD.

Summarizing the analysis, the human, material, technical and information resources used by KATRU allow the university to achieve the results of the joint EP planned by the university.

Strengths/Best Practices:

The University strives to ensure that the educational equipment and software used to ensure that students achieve the planned results of the joint educational program are similar in the relevant fields.

Recommendations of the EEC:

- The management of the accredited EEC shall plan and implement additional measures to support and develop the methodological and pedagogical competencies of young teachers. Deadline: until 01.09.2025.
- The relevant services of the University shall improve the quality and speed of Internet access provided to students in the offices of the University. Deadline – until 01.09.2025.

Conclusions of the EEC on the criteria of EEC 7M08705 "Energy supply and automation of agriculture" according to the standard "Resources" disclosed 7 criteria:

- strong – 1, satisfactory – 6, require improvement – 0.

Standard 8. Transparency and documentation

Evidential part

The University informs all interested parties about the educational programs of the University, including the accredited EEC, by publishing information on the website . KATRU in Kazakh, Russian and English. A survey of university students showed that more than 86% of them were satisfied with the content and informational content of the website.

The university website contains all the information necessary for admission - forms and programs of study, areas of scientific research of the university, its history, organizational structure, internal regulatory documents. The university website has a separate web page for interaction with farmers of the Republic of Kazakhstan, but, unfortunately, at the time of accreditation of the EEC it is not working.

To promote its EPs, in particular the accredited EEC, along with the official website, KATRU actively uses social networks popular among young people: Facebook , Instagram , Youtube .

Current information about the accredited EEC is also presented on the web pages of the Faculty of Power Engineering and the Department of Electrical Equipment Operation University.

KATRU widely uses corporate information systems PLATONUS and Moodle of the University in the educational process for the EP and the accredited SEP, and the PPR - didactic materials from leading universities of the Republic of Kazakhstan, accumulated within the framework of the national information system MOOC .

Based on *the KATRU Development Program for 2025-29 g* , stipulating the strategic directions of development of the university and the Guide to the internal quality assurance system, the management of the educational institution ensures the development and implementation of the

development plan of the accredited EEC, which is confirmed *by the KATRU Report for 2023 on the implementation of the target indicators of development* of the Action Plan.

Analytical part

The KATRU website contains significant and required resources for a full-fledged educational and scientific process. The published information about the accredited EEC is reliable, objective, relevant and reflects the expected learning outcomes of the EEC - the qualification that will be awarded upon its completion; approaches to teaching, learning, as well as the system (procedures, methods and forms) of assessing students' knowledge; information about passing scores and opportunities for employment of EEC graduates.

In addition to the university website, the EEC management uses social media and local media to disseminate information.

Based on the university's internal quality assurance system, the EP management ensures the transparency of the development and public availability of the EEC development plan for all interested parties.

Along with this, the management of the EEC needs to expand information about the activities of the partner university within the framework of the implementation of the accredited EEC.

In addition to general information about the partner university, it is necessary to reflect the positioning of the EEC in the educational market at the regional, national, and international levels, clearly highlighting the **unique aspects of** the accredited EEC.

Access to socially significant information of KATRU is free, and access to critical information subsystems of the University is protected and provided to the PPR and students using personal corporate accounts.

Given the relevance and importance of the issue, KATRU should regulate all necessary organizational and technical measures that must be taken to protect the personal data of employees and students stored at the university in both paper and paperless form.

At the moment, the university does not have a document stipulating the frequency, specific persons responsible for the preparation and publication of information about the university and EEC on the web resources used by KATRU .

On the KATRU website, it was not possible to find an up-to-date schedule of training courses with students in the EP, in particular in the accredited SEP, indicating the time of classes, the audience, and the teacher.

It was also not possible to find information on the website about the accredited EEC.

Strengths/Best Practices:

- No.

Recommendations of the EEC:

- The University shall develop and implement a procedure for publishing and updating information on the University's web resources. Deadline: 01.04.2025.
- The University should formulate the expected forms of interaction between the University and farmers of the Republic of Kazakhstan and activate the 'Farmer' page on the University website. Deadline: 01.04.2025.
- The EEC management shall publish on the KATRU website the schedule of classes for the EEC being accredited, indicating the time, audience, and teacher/teachers conducting the class. Deadline: 01.04.2025.
- The management of KATRU shall develop a regulatory document that will **provide for** organizational and technical measures to protect the personal data of employees and students stored at the university. Deadline: 01.04.2025.
- The management of the accredited EEC shall publish the EEC on the university website for

free access. Deadline: 01.04.2025.

The conclusions of the EEC on the criteria of EEC 7M08705 "Energy supply and automation of agriculture" according to the standard "Transparency and documentation" disclosed 10 criteria:

- strong – 0, satisfactory – 8, suggest improvement – 2.

Standard 9. Quality Assurance

Evidential part

KATRU has a corporate quality assurance system (QAS) for the education provided - at the university level there is a Quality Committee, and at the faculty level there are Academic Quality Councils, whose activities are based on European standards and ESG guidelines.

The activities of the SOC are regulated by the normative document of KATRU - *the Guide to the System of Internal Quality Assurance in Education* , which is available to the general public through the university website.

As for **the policy of** the partner university - *TPU in the field of quality* , it is published on the TPU website, however, it was not possible to find any internal regulatory documents of TPU stipulating how exactly the quality policy is implemented in the activities of the university according to the EEC.

When forming the educational program, the EEC management proceeded from the human resources potential of KATRU and TPU, from the available educational material, requests from employers, the specifics of the region and government documents concerning the development of education in the Republic of Kazakhstan and the Russian Federation.

The University takes measures to combat corruption and academic dishonesty. To assess the effectiveness of achieving the goals and objectives of the educational program, the University organizes periodic reporting of the specialized department, reflecting the results of its activities.

Analytical part

The quality policy complies with the University Development Plan, and the quality assurance system of KATRU complies with *the Model Rules for the Activities of Higher and Postgraduate Education Organizations of the Republic of Kazakhstan dated November 28, 2013.*

The quality assurance policy practiced by the University reflects the relationship between scientific research, teaching and learning according to the accredited EEC.

KATRU periodically conducts an assessment of the quality of the accredited SEP, including an analysis of the program curriculum, the selection and justification of elective disciplines, mutual visits to classes conducted by the PPR, as well as through a survey of students, PPR and employers.

Proposals arising from questionnaire surveys of students and interviews with employers and their assessment of the EEC are analyzed and considered at meetings of the University Academic Council, Faculty Councils and meetings of the specialized department for subsequent amendments to the content of the EEC. The specialized department ensures the participation of employers in the implementation of the EEC.

However, it should be noted that at the moment, the partner universities of the accredited EEC do not have and do not apply **joint internal processes for ensuring the quality** of training according to the EEC in accordance with Part One of the ESG.

The survey of teaching staff also revealed problems with the correspondence between the content and quality of the educational program, in particular the standard educational program, and the expectations of the labor market and employers ('good' and 'relatively bad' - more than 64%), as well as with the development of students' skills and abilities to analyze the situation and make

forecasts ('good' and 'relatively bad' - more than 64%).

The KATRU administration constantly fights for academic honesty and freedom and shows intolerance to discrimination of teachers and/or students. In doing so, it is guided by *the Code of Academic Honesty of Participants in the Educational Process* , which is available on the university website and provides for equal opportunities for participation of all participants in the process and requires adherence to academic culture of behavior and mutual respect for each other.

The results of the application of the internal quality assurance system by KATRU are a high level of satisfaction of consumers and students on the EEC, confirmed by feedback from employers.

Strengths/Best Practices:

- No.

Recommendations of the EEC:

- The KATRU management shall supplement the Guide to the internal quality assurance system of education with joint quality assurance processes with the partner university for the case of EEC. Deadline: 01.04.2025.

Conclusions of the EEC on the criteria of EEC 7M08705 "Energy supply and automation of agriculture" according to the standard "Quality assurance" disclosed 9 criteria:

- strong – 0, satisfactory – 9, requires improvement – 0.

Standard 10. Continuous monitoring and periodic evaluation of the joint educational program

Evidential part

At KATRU, the functions of continuous monitoring, evaluation and revision of educational programs, including EEC, are assigned to the Academic Council of the University, and the adjustment of the content of syllabuses and working programs of EEC is assigned to the academic committee of the graduating department, which includes a representative of students .

In their work, the structural units of the university are guided by the corporate *Regulation on the system of internal quality assurance of education of KATRU* , approved by the rector of the university on November 28, 2021.

To be more efficient, KATRU has divided the responsibility for monitoring and evaluating EECs among its departments.

The DAV of the university develops and monitors the working curricula of the educational programs and ensures compliance with academic standards; the DMSA organizes exchange programs and maintains partnerships with foreign educational institutions; the DC is responsible for the IT infrastructure, including learning management systems and electronic resources of the university, and the DVSR organizes educational events and social programs, supports the active student life of the university.

the corporate information systems Platonus and Moodle into the educational process for the EP . All midterm, examination and final assessments of students in the disciplines of the accredited EEC are provided in the Platonus information system and comply with the Academic Policy of the University.

Analytical part

The analysis *of the Self-Assessment Report* and documentation of KATRU showed that the University conducts periodic monitoring and evaluation of the implementation of the EEC with the aim of its further improvement taking into account the modern needs of society.

This is facilitated by the operational analysis of the current academic performance of students according to the EEC in the university's Platonus information system.

The satisfaction of the PPR and students with the learning outcomes, their attitude to various aspects of the learning activities, the strengths and weaknesses of the educational process are assessed by the university by conducting periodic sociological studies of the PPR and students. Their results are used in the assessment and revision of the EEC.

The specialized department of the accredited EEC is constantly working to attract employers both in the training of PPR personnel from among practicing specialists and in the development and formation of EECs.

The specialized department of KATRU agrees with employers via e-mail or at a personal meeting of representatives from the enterprise and the department on the revised EEC - its structure, number and content of academic disciplines , etc. Personal meetings of representatives of the parties have proven to be more effective, since they allow for a better assessment of changes in the labor market, to hear the requirements of employers and to feel the social demand of society in relation to the updated EEC.

Strengths/Best Practices:

- No.

Recommendations:

- No

The conclusions of the EEC on the criteria of EEC 7M08705 "Energy supply and automation of agriculture" according to the standard "Continuous monitoring and periodic assessment of the joint educational program" disclosed 4 criteria:

- strong – 0, satisfactory – 4, requires improvement – 0.

Standard 11. Periodic external quality assurance procedures

Evidential part

The management of the accredited educational program periodically takes measures to ensure quality and continuously improves the educational program in order to achieve the set educational goals.

The University regularly participates in international rankings: QS World University Rankings (in 2023, it is among 1200 of 5660 universities in the world), QS Asia University Rankings (in Central Asia - 16th place); UI GreenMetric World University Rankings , rating of the IAAR RK (3rd place) and occupies prestigious places in them.

Analytical part

The members of the EEC believe that KATRU closely monitors the compliance of its level of quality of services provided with national and international standards and recommendations in the field of education and science.

The most detailed and effective tool for external assessment of the quality of a university educational program, in particular, an accredited educational program, is its accreditation by the IAAR RK agency.

EEC 7M08705 "Energy supply and automation of agriculture" passed the initial accreditation of IAAR on November 26-28, 2019 and post-accreditation monitoring on November 08, 2021, and the external expert commission formulated 27 recommendations for the university. At the time of the current accreditation, the university implemented 11 of them by 100% and 10 by 90..95%, which is

78% of the recommendations, which indicates a positive trend in ensuring the quality of EECs at KATRU.

In general, the EEC believes that the system of internal quality assurance organized at KATRU, in combination with the elements of external quality assurance of services provided, practiced by the university, allows the university to effectively position itself in the educational services market of the Republic of Kazakhstan.

Strengths/Best Practices:

- No.

Recommendations of the EEC:

- No.

Conclusions of the EEC on the criteria of EEC 7M08705 "Energy supply and automation of agriculture" according to the standard "Periodic procedures of external quality assurance" disclosed 2 criteria:

- strong – 0, satisfactory – 2, require improvement – 0.

OVERVIEW OF STRENGTHS/BEST PRACTICES FOR EACH STANDARD

Standard 1. “Eligibility/Threshold Requirements”
No

Standard 2. "Learning Outcomes"
No

Standard 3. "Development and approval of the program"
No

Standard 4. “Admission, Progress, Recognition and Certification of Learners”
No

Standard 5. “Student-centered learning, teaching and assessment of academic performance”
No

Standard 6. "Student Support"
No

Standard 7. “Resources”
The University strives to ensure that the educational equipment and software used to ensure that students achieve the planned results of the joint educational program are similar in the relevant industries.

Standard 8. "Transparency and documentation"
No

Standard 9. "Quality Assurance"
No

Standard 10. “Continuous monitoring and periodic evaluation of the joint educational program”
No

Standard 11. "Periodic procedures for external quality assurance"
No

OVERVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS FOR EACH STANDARD

Standard 1. “Eligibility/Threshold Requirements”

- The management of KATRU, together with the partner university, shall develop *a joint document* that will agree on the terms of development and implementation of EEC 7M08705 "Energy supply and automation of agriculture". From the date - until 01.04.2025.
- In the Development Plans of the EP the management of the EP shall include information on the awarded academic degree (qualification, degrees) for mastering (completion) of EEC 7M08705 "Energy supply and automation of agriculture". From the date - until 01.04.2025.
- The management of KATRU shall submit on the university website the rules for admission and selection of students for the EEC 7M08705 "Energy supply and automation of agriculture". From the date - until 01.04.2025.
- The management of KATRU should include a section on the implementation of mobility of students and teachers according to EEC 7M08705 "Energy supply and automation of agriculture". Effective date - until 01.04.2025.
- The management of the educational program shall present on the website and communicate to students the rules for conducting examinations, methods for assessing the achieved results of students, recognition of ECTS credits and procedures for assigning a degree in EEC 7M08705 "Energy supply and automation of agriculture". From the date - until 01.04.2025.

Standard 2. "Learning Outcomes"

- The EEC management shall submit a roadmap for the implementation of the EEC in the EP development plan and begin its implementation, update the information and post the approved version on the KATRU website. Deadline: 01.04.2025.

Standard 3. "Development and approval of the program"

- In order to increase the practical orientation, the EP management should review in the curricula the ratio of hours for lectures and practical/laboratory classes and credits allocated for the professional practice of students. Deadline: until 01.04.2025.
- The EEC management shall include in the MEP a training module of two or three disciplines on the formation of IT competencies in students. Deadline: 01.04.2025.
- The management of EEC 7M08705 "Energy supply and automation of agriculture" shall include a roadmap for professional certification in the development plan of the EP and, if necessary, corresponding adjustments to the MOP and begin its implementation. Deadline - until 01.09.2025.

Standard 4. “Admission, Progress, Recognition and Certification of Learners”

- The KATRU management shall develop an action plan for the analysis, monitoring and improvement of the university's activities, focusing on the activities and performance of the alumni association. Deadline: 01.04.2025.
- The University management shall introduce a requirement for conducting early career guidance activities in the University's marketing policy according to EEC 7M08705 "Energy supply and automation of agriculture". Deadline - until 01.04.2025.
- The management of the accredited EEC shall develop a mechanism for forming the contingent of students in accordance with the needs of employers for EEC graduates. Deadline: 01.04.2025.
- The management of KATRU and EEC shall ensure a PR-marketing policy within the framework of the accredited EEC, develop and approve an action plan by a collegial body with the participation of the partner university. Deadline - 01.04.2025.
- The management of EEC 7M08705 "Energy supply and automation of agriculture" shall

analyze the reasons for the decrease in the number of students and develop a comprehensive plan for the recognition of the EEC and the attraction of graduates of KATRU and other higher education institutions. Deadline - 01.04.2025.

Standard 5. “Student-centered learning, teaching and assessment of academic performance”

- The EEC management shall develop and approve a document regulating the implementation of the educational process of its own research and the adaptation of existing innovations, methods and teaching methods according to an individual scenario within the framework of disciplines implemented by the EEC teaching staff. Deadline - until 01.04.2025.

Standard 6. "Student Support"

No.

Standard 7. “Resources”

- The management of the accredited EEC shall plan and implement additional measures to support and develop the methodological and pedagogical competencies of young teachers. Deadline: until 01.09.2025.
- The relevant services of the University shall improve the quality and speed of Internet access provided to students in the offices of the University. Deadline – until 01.09.2025.

Standard 8. "Transparency and documentation"

- The University shall develop and implement a procedure for publishing and updating information on the University's web resources. Deadline: 01.04.2025.
- The University should formulate the expected forms of interaction between the University and farmers of the Republic of Kazakhstan and activate the 'Farmer' page on the University website. Deadline: 01.04.2025.
- The EEC management shall publish on the KATRU website the schedule of classes for the EEC being accredited, indicating the time, audience, and teacher/teachers conducting the class. Deadline: 01.04.2025.
- The management of KATRU shall develop a regulatory document that will provide for organizational and technical measures to protect the personal data of employees and students stored at the university. Deadline: 01.04.2025.
- The management of the accredited EEC shall publish the EEC on the university website for free access. Deadline: 01.04.2025.

Standard 9. "Quality Assurance"

- The KATRU management shall supplement the Guide to the internal quality assurance system of education with joint quality assurance processes with the partner university for the case of EEC. Deadline: 01.04.2025.

Standard 10. “Continuous monitoring and periodic evaluation of the joint educational program”

-No

Standard 11. "Periodic procedures for external quality assurance"

- No

RECOMMENDATION TO THE ACCREDITATION COUNCIL

The members of the external expert commission came to the unanimous opinion that the joint educational program 7M08705 "Energy supply and automation of agriculture" , implemented by the S. Seifullin Kazakh Agrotechnical Research University , can be accredited for a period of **5 (five) years** .

Appendix 1. Evaluation table "PARAMETERS OF A SPECIALISED PROFILE"

Conclusion of the EEC on the results of the quality assessment of the joint educational program **7M08705 "Energy supply and automation of agriculture"**

No.	No.	Standards and criteria for international specialized (program) accreditation of a joint educational program of higher and (or) postgraduate education	Position of the joint educational program			
			Strong	Satisfactory	Suggests improvement	Unsatisfactory
Standard 1. "Right to Participate. Acceptability"						
1.	1.	Educational organizations planning to implement a joint educational program must be recognized by the relevant authorities of the country in which they are located.		√		
2.	2.	Participation in the implementation of a joint educational program and the assignment of a joint academic degree must comply with national regulations.		√		
3.	3.	The academic degree(s) awarded must correspond to the national qualification system of the countries in which the educational institutions are located.		√		
4.	4.	A joint educational program must be developed and implemented with the involvement of all partner educational organizations.		√		
5.	5.	The conditions for the development and implementation of a joint educational program must be clearly set out in the cooperation agreement between the educational organizations – partners.			√	
The cooperation document must set out the following:						
6.	1.	information on the academic degree (qualification, degrees) awarded upon mastering (completion) of a joint educational program			√	
7.	2.	coordination and responsibility of the involved partner educational organizations with regard to management and financial organization (including funding, sharing of costs and revenues, etc.)			√	
8.	3.	rules for admission and selection of students			√	
9.	4.	mobility of students and teachers			√	
10.	5.	rules for conducting examinations, methods for assessing the achievements of students, recognition of ECTS credits and procedures for awarding joint academic degrees			√	
		Total by standard	**0**	**4**	**6**	
Standard 2. "Learning Outcomes"						
11.	1.	The joint educational program must be developed in accordance with the established objectives, including the intended learning outcomes.		√		
12.	2.	The qualification obtained as a result of the joint study programme must be clearly defined, explained and correspond to a certain level of the national framework of qualifications in higher education and, consequently, to the framework of qualifications in the European Higher Education Area (FQ-EHEA)		√		
13.	3.	The disciplines of the joint educational program must ensure the achievement of the planned learning outcomes, including knowledge, skills and competencies in the relevant area(s) of education.		√		
14.	4.	The joint educational program must ensure that each student achieves the planned learning outcomes.		√		

15.	5.	The joint educational programme, where relevant, must take into account the minimum harmonized conditions for training referred to in the European Union Directive 2005/36/EC or the relevant common framework for training established in accordance with the Directive.		√		
		Total by standard	**0**	**5**	**0**	
Standard 3. "Development and approval of the program"						
16.	1.	The structure and content of the joint educational program should be defined and developed on the basis of a student-centered approach to learning to ensure the achievement of the planned results.		√		
17.	2.	The joint educational program should be developed with the participation of students and other stakeholders.		√		
18.	3.	The European Credit Transfer System (ECTS) must be applied correctly and the allocation of credits must be clear		√		
19.	4.	The joint degree programme covers the required workload. The Bachelor's programme comprises at least 180-240 ECTS credits; the joint Master's programme comprises at least 90-120 ECTS credits and must not be less than 60 ECTS credits at the second level of the cycle (credit ranges according to FQ-EHEA); no credit range is specified for joint PhD programmes		√		
20.	5.	The joint educational program has mechanisms for monitoring the study load and the average time for completing the program.		√		
		Total by standard	**0**	**5**	**0**	
Standard 4. “Admission, Progress, Recognition and Certification of Learners”						
21.	1.	Partner educational institutions must have pre-defined, published and consistently applied admissions policies and requirements for applicants.		√		
22.	2.	Selection procedures must be appropriate to the level of the joint educational program, regulating all periods of the “life cycle” of education, i.e. admission, academic performance, recognition and certification		√		
23.	3.	The recognition of qualifications and periods of study (including recognition of prior learning) should be applied in accordance with the Lisbon Recognition Convention and its supporting instruments		√		
		Total by standard	**0**	**3**	**0**	
Standard 5. “Student-centered learning, teaching and assessment of academic performance”						
24.	1.	The joint educational program should be developed in accordance with the planned learning outcomes.		√		
25.	2.	The approaches to learning and teaching used must be adequate to achieve the intended learning outcomes.		√		
26.	3.	The joint educational program should take into account the diversity of learners, respect their needs, including potentially different cultural characteristics of learners		√		
27.	4.	The rules for conducting examinations and assessing the learning outcomes achieved must be consistent with the expected learning outcomes		√		
28.	5.	Examinations and assessment of the results achieved by students must be carried out by partner educational organizations in accordance with established rules.		√		
		Total by standard	**0**	**5**	**0**	
Standard 6. "Support for learners "						
29.	1.	Educational partners must ensure that appropriate learner support services are in place to support the achievement of planned learning outcomes.		√		
30.	2.	Learner support services should support the achievement of intended learning outcomes		√		
31.	3.	Student support services should take into account possible specific student mobility issues		√		
32.	4.	Support services should take into account the needs of different groups of learners (mobile learners, adults, workers, distance learners, and learners with disabilities) when allocating, planning and providing educational resources and take into account the principles of a student-centred approach to learning and teaching.		√		

		Total by standard	**0**	**4**	**0**	
Standard 7. "Resources"						
33.	1.	The teaching staff must be sufficient and adequate (qualifications, professional and international experience) to implement the joint educational program.		√		
34.	2.	The conditions provided must be sufficient and adequate in view of the expected learning outcomes.		√		
Educational partner organizations are responsible for the quality of their staff and the provision of favorable conditions for their effective work. Therefore, educational organizations, recognizing the importance of teaching, should:						
35.	3.	develop clear, transparent and objective criteria for hiring, assigning, promoting, and dismissing employees and adhere to them in your activities		√		
36.	4.	provide opportunities for career growth and professional development for teachers		√		
37.	5.	encourage scientific activity to strengthen the link between education and scientific research		√		
38.	6.	encourage the use of innovative teaching and learning methods and advanced technologies		√		
39.	7.	The educational institution should strive to ensure that the educational equipment and software used to ensure that students achieve the planned results of the joint educational program are similar in the relevant sectors.	√			
		Total by standard	**1**	**6**	**0**	
Standard 8. "Transparency and documentation"						
40.	1.	Relevant information on the joint educational programme should be documented and published, taking into account the specific needs of the mobility students.			√	
41.	2.	Information about the joint degree program should include admission requirements and procedures, course/discipline catalog, examination and assessment procedures, etc.			√	
42.	3.	Partner educational organizations must have and implement mechanisms for collecting and analyzing information about their activities, about the activities of the partner within the framework of the joint educational program, and use the information obtained in the work of the internal quality assurance system		√		
43.	4.	The educational institution must ensure the involvement of students and staff in collecting, analyzing information and planning subsequent procedures.		√		
When collecting information, the OO should take into account the following:						
44.	5.	Key performance indicators		√		
45.	6.	information about the contingent of students		√		
46.	7.	academic performance, student achievement and dropout rates		√		
47.	8.	satisfaction of students with the quality of implementation of the joint educational program		√		
48.	9.	availability of educational resources and student support services		√		
49.	10.	employment of graduates		√		
		Total by standard	**0**	**8**	**2**	
9. Standard " Quality Assurance "						
50.	1.	Partner educational organisations must have a published quality assurance policy that forms part of their strategic management		√		
51.	2.	Quality assurance policies are more effective when they reflect the links between learning, teaching and research and take into account the national contexts in which partner educational organisations operate.		√		
52.	3.	Internal stakeholders should develop and implement this policy through appropriate structures and processes with the involvement of external stakeholders.		√		
53.	4.	education organisations should implement joint internal quality assurance processes in accordance with Part One of the ESG		√		
The quality assurance policy supports						

54.	5.	organization of a quality assurance system that provides for joint internal quality assurance processes of partner educational organizations		√		
55.	6.	departments, schools, faculties, institutes and other divisions, as well as the management of the educational organization, employees and students performing quality assurance duties		√		
56.	7.	academic honesty and freedom, as well as intolerance to manifestations of various types of academic dishonesty		√		
57.	8.	processes that provide intolerance of any kind or discrimination against students and teachers		√		
58.	9.	participation of external stakeholders in quality assurance		√		
		Total by standard	**0**	**9**	**0**	
Standard 10. "Continuous monitoring and periodic evaluation of the joint educational program"						
59.	1.	Partner educational organizations should monitor and periodically evaluate the joint educational program to ensure that it achieves its purpose and is relevant to the needs of learners and society.		√		
60.	2.	The results of these processes should lead the educational organization to continuous improvement of the joint educational program.		√		
61.	3.	All stakeholders must be informed of any actions planned or taken in relation to the joint educational programme.		√		
62.	4.	The joint educational program should be regularly evaluated and revised with the involvement of learners and other stakeholders.		√		
		Total by standard	**0**	**4**	**0**	
Standard 11. "Periodic procedures for external quality assurance"						
63.	1.	Partner education organisations must undergo external quality assurance procedures in accordance with the European Standards and Guidelines (ESG) on a regular basis		√		
64.	2.	The educational organization should endeavor to ensure that progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.		√		
		Total by standard		**2**		
		TOTAL	**1**	**55**	**8**	