



«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 assessment of compliance with the requirements of the standards of primary specialized accreditation of educational programs (bachelor's degree)

6B06101 – Computer science, 6B06105 – Software engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

OF A NON-PROFIT JOINT STOCK COMPANY "ALMATY UNIVERSITY OF
POWER ENGINEERING AND TELECOMMUNICATIONS NAMED AFTER
GUMARBЕК DAUKEYEV"

from 14 to 16 March, 2024

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
External Expert Commission

Addressed to the IAAR Accreditation Council



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OF A NON-PROFIT JOINT STOCK COMPANY "ALMATY UNIVERSITY OF POWER ENGINEERING AND TELECOMMUNICATIONS NAMED AFTER GUMARBEK DAUKEYEV"

from 14 to 16 March, 2024

Almaty city

March 16, 2024

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(I) LIST OF DESIGNATIONS AND ABBREVIATIONS

NPJSC	Non-profit joint stock company
SAC	The State Attestation Commission
SGESE	the state general education standard of education
UNT	Unified national testing
ICT	information and communication technologies
IS	information sytem
IEP	Individual education plan
AUPET	Almaty University of Power Engineering and Telecommunications named after Gumarbek Daukeyev
CED	catalog of elective disciplines
IAAR	Independent agency for accreditation and rating
MSHE RK	Ministry of Science and Higher Education of the Republic of Kazakhstan
RW	Research work
SRWS	Scientific research work of students
ERWS	educational and research work of students
EP	Educational program
TS	Teaching staff
PLO	Planned learning outcomes
RK	Republic of Kazakhstan
WC	Working curriculum
CED	catalog of elective disciplines
MM	Mass media
SC	Standard curriculum
IC	Individual curriculum
TM	Teaching materials
ED	Elective disciplines

(II) INTRODUCTION

Introduction

In accordance with Order No. 7-24-OD dated 04.01.2024 of the Director General of the Independent Agency of Accreditation and Rating, from March 14-16, 2024, an external expert commission assessed the compliance of educational programs 6B06101 Computer science, 6B06105 Software Engineering, 6B07106 Nuclear Power Plants and installations, 6B07113 Energy Audit and energy Management, 6B07126 Energy Supply of oil and gas pumping complexes at NPJSC "Almaty University of Power Engineering and Telecommunications named after Gumarbek Daukeyev" (Almaty city) standards of primary specialized accreditation of the educational program of the organization of higher and postgraduate education of the IAAR (No.68-18/1-OD dated May 25, 2018, first edition).

The report of the external expert commission (EEC) contains an assessment of the presented educational program according to the criteria of the IAAR standards, the recommendations of the EEC for further improvement of the EP and the parameters of the EP profile.

The composition of the EEC:

Chairman of the IAAR EEC – Timur Arsenovich Tabishev, Candidate of Pedagogical Sciences, Associate Professor, Head of Education Quality Management, Kabardino-Balkarian State University named after H.M. Berbekov (Nalchik, Russian Federation)

Coordinator of the IAAR EEC – Nazyrova Gulfiya Rifkatovna, Ph.D. in Economics, Project Manager for specialized and institutional accreditation

Foreign expert of IAAR – Razinkina Elena Mikhailovna Doctor of Pedagogical Sciences, V.A. Almazov National Medical Research Center of the Ministry of Health of Russia (St. Petersburg, Russia)

The national expert of IAAR is Alimgazin Altai Shurumbaevich, Doctor of Technical Sciences, L.N. Gumilyov Eurasian National University.

National expert of IAAR – Talipov Olzhas Manarbekovich, PhD, Toraighyrov University (Pavlodar, Republic of Kazakhstan)

National Expert of IAAR - Mehdiyev Ali Javanshirovich Candidate of Technical Sciences, Associate Professor KATRU named after Seifullin (Astana, RK)

National Expert of IAAR - Ospanov Erbol Amangazovich, PhD, D. Serikbayev East Kazakhstan Technical University.

IAAR expert, Employer – Kan Alexey Vladislavovich, Head of EXPLORATION PRODUCTION LLP (Almaty, Republic of Kazakhstan)

IAAR expert, Student – Bakirbaeva Anar Akyldaevna, 1st year doctoral student, Karaganda Technical University named after Abylka Saginov (Karaganda, Republic of Kazakhstan)

IAAR expert, Student – Aubakirova Zulfiya Akylbekovna, 1st year doctoral student, Karaganda Technical University named after Abylka Saginov (Karaganda, Republic of Kazakhstan)

IAAR expert, Student – Anapyanova Samal Bagdatovna, 2nd year doctoral student, Kazakh National Agrarian Research University,

(III) REPRESENTATION OF THE EDUCATIONAL ORGANIZATION

In 1975, in accordance with the decisions of the Central Committee of the CPSU and the Council of Ministers of the USSR and the Central Committee of the Communist Party of Kazakhstan and the Council of Ministers of the Kazakh SSR, the Almaty Energy Institute was organized, which received university status on July 1, 2010 and was renamed the Non-profit Joint Stock Company Almaty University of Power Engineering and Telecommunications, in 2020 the university was named after Gumarbek Daukeyev.

The mission of the Almaty University of Power Engineering and Telecommunications named after Gumarbek Daukeyev (hereinafter AUPET, the University) is to form the best intellectual resources of the national knowledge economy and the most advanced technologies for the industrial and innovative development of the country, adapted to the conditions of world integration and globalization.

Vision of the University by 2025, AUPET is an advanced research university in Central Asia in the field of energy, telecommunications, information and aerospace technologies.

The University has four institutes (Institute of Automation and Information Technology, Institute of Energy and Green Technologies, Institute of Communication and Space Engineering, Institute of Natural Sciences and Humanities), 14 departments, AUPET College.

AUPET provides training for college, bachelor's, master's and doctoral PhD programs in the field of energy, telecommunications, IT technology, information security, space engineering, robotics and artificial intelligence in accordance with the perpetual State license for educational activities No.KZ80LAA00018161 dated 05.05.2020.

To date, the number of students is 2,040, of which 34 are international students. For the convenience of students, a unified academic counseling center has been launched since February 2024, where students can get advice on basic academic processes, information about educational programs, and rules for organizing the educational process using credit technology.

Academic mobility of students is carried out within the framework of agreements between SCO universities, the European funded project "Erasmus+", the British Council KA 1, "International Credit Mobility", as well as various scholarship programs offered by governments and organizations of foreign countries. In total, more than 60 cooperation agreements have been concluded with foreign universities from 23 countries, including: Japan, Germany, Italy, France, Spain, Estonia, Malaysia, Poland, Turkiye, Georgia, Azerbaijan, etc.

In 2019, according to the international rating of U-Multirank, AUPET became one of the three best universities in Kazakhstan. In 2020, he was included in the TOP 20 universities of the Republic of Kazakhstan, and also took 6th place in the national ranking of the best technical universities in Kazakhstan. In 2023, according to the League of Honesty, the University (average score – 78.20%) took 5th place among universities in Kazakhstan.

In 2019, the University underwent institutional and specialized accreditations with the Independent Agency for Accreditation and Rating (IAAR).

(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

Accreditation in the IAAR is held for the first time.

(V) DESCRIPTION OF THE EEC VISIT

The external visit of the expert group within the framework of the specialized accreditation procedure of the NPJSC Almaty University of Power Engineering and Telecommunications named after G. Daukeyev took place from March 14 to 16, 2024.

The external audit was conducted in accordance with the program developed by IAQAE and coordinated with the university management. All the materials necessary for the work (the program

of the visit, the report on the self-assessment of the university's educational programs, the Guidelines for organizing and conducting an external assessment for the specialized accreditation procedure) were presented to the members of the expert group before the visit to the educational organization, which provided an opportunity to prepare for the external assessment procedure in a timely manner.

The external audit took place partly in a remote format – some experts assessed the university's activities online.

The meeting with the university management gave the team of experts an opportunity to get a general description of the university, the achievements of recent years and the prospects for the development of educational programs and the university as a whole.

The planned events for the external visit contributed to a more detailed acquaintance with the structure of the university, its material and technical base, the teaching staff of the department, students, undergraduates and doctoral students, graduates, employers of the university and allowed external experts to independently assess the compliance of the data of the self-assessment report on educational programs with the actual state of affairs at the educational institution.

The report on the self-assessment of the university's educational programs contains the necessary amount of information, it analyzes all areas of activity of the university and structural divisions in accordance with the standards of specialized accreditation, identifies strengths and weaknesses, identifies threats and opportunities for further development.

The experts conducted a visual face-to-face and online inspection of laboratories, classroom facilities, centers, departments, departments, etc. in order to get a general idea about the organization of educational and scientific processes, methodological support for training, material and technical base, to determine its compliance with standards, as well as for contacts with students and employees at their workplaces.

In the process of conducting an external audit, experts also studied the documentation of the University, specialized departments, conducted selective visits to training sessions in the areas of accredited programs, surveys of students, teachers, graduates and employers.

(VI) COMPLIANCE WITH THE STANDARDS OF SPECIALIZED ACCREDITATION

6.1. The standard "Educational Program Management"

- ✓ *The university must have a published quality assurance policy.*
- ✓ *The quality assurance policy should reflect the relationship between scientific research, teaching and learning.*
- ✓ *The university must demonstrate the development of a culture of quality assurance, including in the context of EP.*
- ✓ *Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including in the implementation of joint/double-degree education and academic mobility.*
- ✓ *The management of the EP ensures transparency in the development of the EP development plan based on an analysis of its functioning, the real positioning of the university and the orientation of its activities to meet the needs of the state, employers, stakeholders and students.*
- ✓ *The management of the EP demonstrates the functioning of mechanisms for the formation and regular revision of the development plan of the EP and monitoring its implementation, evaluating the achievement of learning goals, meeting the needs of students, employers and society, and making decisions aimed at continuous improvement of the EP.*
- ✓ *The management of the EP should involve representatives of groups of interested persons, including employers, students and teaching staff in the formation of a development plan for the EP.*
- ✓ *The management of the educational institution must demonstrate the individuality and uniqueness of the educational institution's development plan, its consistency with national development priorities and the development strategy of the educational organization.*
- ✓ *The university must demonstrate a clear definition of those responsible for business processes within the framework of the EP, an unambiguous distribution of staff responsibilities, and the differentiation of functions of collegial bodies.*
- ✓ *The management of the educational institution must provide evidence of the transparency of the*

- educational program management system.*
- ✓ *The management of the EP must demonstrate the successful functioning of the internal quality assurance system of the EP, including its design, management and monitoring, their improvement, and fact-based decision-making.*
 - ✓ *The management of the EP should carry out risk management.*
 - ✓ *The management of the educational institution should ensure the participation of representatives of interested persons (employers, teaching staff, students) in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.*
 - ✓ *The university must demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals.*
 - ✓ *The management of the educational institution must demonstrate evidence of openness and accessibility for students, teaching staff, employers and other interested persons.*
 - ✓ *The management of the EP must be trained in educational management programs.*
 - ✓ *The management of the EP should strive to ensure that the progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.*

The evidentiary part

The following are presented as planning and strategic documents: Transformation Strategy until 2025 (https://aues.edu.kz/frontend/web/uploads/document/1582608703_-M8Gjf.pdf), Strategic Development Plan for 2021-2023 (https://aues.edu.kz/frontend/web/uploads/document/1646385977_1Q79To.pdf), Internationalization Strategy for 2021-2023 (https://aues.edu.kz/frontend/web/uploads/document/1643872190_x3LJUX.pdf), Environmental Policy (https://aues.edu.kz/frontend/web/uploads/document/1582608183_TxiZ2K.pdf). There is no strategy for the development of the University in the near future.

There is no quality assurance policy for the current period, a Quality Assurance Policy for the 2022-2023 academic year is presented (<https://aues.edu.kz/ru/pages?id=2>).

The Department of IT Engineering has developed a Development Plan for EP 6B06101 Computer science (bachelor's degree) for 2023-2028, approved by the Director of IAIT I.A. Fedorenko on 08/28/2023, the development plan for EP 6B06105 – Software Engineering (bachelor's degree) for 2023-2028, approved by the Director of IAIT I.A. Fedorenko on 08/28/2023. The development plans of the EP were considered at the meeting of the CEM of the Department of IT Engineering, a representative of students (master's degree) was included in the membership of the CEM, representatives from key employers were invited to the meeting.

The implementation of the EP development plan is based on the following procedures: "Planning of the educational process" (FS-804), "Educational process" (FS-805), "Knowledge Assessment" (FS-806), "Quality control of the educational process" (FS-808), "Regulations on the Scientific and Technical Council", "Educational work and social conditions of students" (FS-704).

The mechanisms for the formation and revision of the development plan and the content of educational programs involve regular discussion of the EP at a meeting of the department with the involvement of employers. All changes are taken into account and reflected in the adjustments made to the Program (experts are presented with Extracts from meetings of the Department of Computer Engineering with discussion and revision of the EP).

The annual report plan of the Department of IT Engineering, which is being developed on the basis of the EP Development Plan, identifies promising areas of activity to achieve the set goals and improve the quality of student education. All the goals and objectives of the department are aimed at student-centered learning, all types of work on student-centered learning are reflected in the plans for the development of EP developed by the department (presented to experts).

The monitoring of the EP is carried out by the University by analyzing: 1) the level of training of graduates, taking into account the satisfaction of representatives of educational institutions and representatives of business communities during professional practices; 2) information resources and processes for disseminating information about plans for the development of educational programs; 3) mechanisms of resource provision and management structure aimed at the implementation of educational programs; 4) internal and external

environment and market to determine the initial parameters of the development of educational programs.

The assessment of the effectiveness of the EP is determined by discussing and analyzing the results of academic performance, passing all types of practices, the level of residual knowledge, the quality of graduation papers and state exams (in the future) at meetings of collegial bodies of the university (meetings of departments, CEM and BS of the University).

All of these mechanisms are used in the program management process.

Measures to control the quality of the educational process carried out at different levels are recorded in the form of records, acts, reports and discussed at meetings of the department, institute. Based on the analysis and evaluation of control indicators, preventive and corrective measures are being developed. Their effectiveness and efficiency are reviewed at the meetings of the department.

The educational process is organized on the interaction of teaching, scientific research and training in the quality assurance policy. At the same time, domestic and foreign best practices are used.

AUPET regularly informs the public and key stakeholders about all aspects of its activities, conditions and features of the implementation of accredited EP. Informing interested parties about planned or undertaken actions in relation to the EP is carried out through e-mail, mass media, scientific journals, specialized events, publications and portals of university partners, design of information stands, posters, banners, information booklets on the EP, posting information on the university portal, holding meetings of the Institute's advisory council, meetings of departments.

The management of the EP is carried out by the head of the department, the head of the EP, public bodies (meetings of departments, CEM of the institute, CEM and BS of the university), which include representatives of employers, teaching staff, students (experts are presented with the job description of the head of the department, approved by Rector Syzdykov M.K. 08/29/2024). The control of the implementation of the EP is carried out by the director of the profile institute and the profile projector.

The management of the EP identifies and systematizes risks in the risk management register, which are formed by each department of the university, are responsible for the timely completion and revision of the register items: the risk owner, the risk group, the level of influence (1 – low, 2 – medium, 3 – high), the level of Probability (1 – low, 2 – medium, 3 – high), risk factors (causes); risk management measures, consequences of risk realization.

At the beginning of each academic year, a risk management action plan is discussed and taken into account at a meeting of the department, responsible executors and deadlines are appointed (minutes of the meeting of the IT Engineering Department No. 1 dated 08/28/2023).

Every year, within the framework of the initiative of the National Chamber of Entrepreneurs "Atameken", together with the Ministry of Science and Higher Education, when forming the rating of educational programs, work is carried out to update disciplines by 30%. The actualization of the EP contributes to the introduction of innovative and high-tech disciplines into educational programs.

The introduction of innovations is carried out on the basis of scientific research of the department. In the 2023-2024 academic year, the staff of the department participated in four grant research projects (contracts were submitted to experts).

Analytical part

Experts note that the university and the management of the EP have demonstrated the development of a culture of quality assurance, including in the context of the EP, commitment to ensuring, which applies to all ongoing processes, however, the formation of quality assurance for the EP 4 cluster is based on a Quality Assurance Policy, which is valid for 2022-2023.

The experts were presented with plans for the development of EP, which took into account planning and strategic documents that have expired, since there is no Strategy for the development of the University in the near future.

The definition of those responsible for business processes within the EP of the cluster, the distribution of staff responsibilities, the differentiation of functions of collegial bodies requires specification in the local regulatory framework of the University.

The management of the EP improves qualifications in various types of activities, however, certificates of advanced training in the field of management in education from the head of the Department of IT Engineering, heads of the EP 6B06101 Computer science (bachelor's degree), 6B06105 - Software engineering (bachelor's degree) are not presented to experts.

Strengths/best practices

Not identified.

EEC recommendations for EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

– To develop and approve the University's development strategy for the period up to 2030.
Due date: until 06/01/2024

– Develop and approve a Quality Assurance Policy. Due date: until 06/01/2024

– To develop a local regulatory act regulating the functional responsibilities of the heads of the EP. Due date: until 30.05.2024

– To undergo advanced training in the field of management in education for heads of departments, heads of EP. Due date: until 30.08.2024

EEC Recommendations for EP 6B06101 Computer Science, 6B06105 – Software Engineering

– To develop a plan to promote EP in the national and international markets, including, in addition to traditional methods, the following activities:

- ✓ creation and placement on national and international online educational platforms of massive open online courses to promote educational programs and scientific schools of the University;
- ✓ promotion of educational programs on social networks and on specialized international platforms on the Internet information and telecommunications network;
- ✓ expansion of the range of intellectual competitions at the University sites with the involvement of leading IT companies to attract foreign prospective applicants;
- ✓ expansion of cooperation with the best schools and lyceums in Almaty within the framework of creating a distributed network of sponsored IT classes (providing methodological assistance and master classes for teachers, involving schoolchildren in University project activities, etc.).

Due date: until 01.05.2024.

EEC Recommendations for EP 6B06101 Computer science

– To analyze the relevance and relevance of the development of an English-language educational program for citizens of Kazakhstan, taking into account the costs of its implementation. The implementation period is October 2024.

EEC Recommendations for EP 6B07106 – Nuclear power plants and installations

- To analyze the demand for EP in the labor market in accordance with the needs of students, employers and society.

- To develop a risk system for the employment of graduates of this EP, taking into account the possibility of recruiting a contingent for the next 3 years.

The implementation period is June 2024.

The conclusions of the EEC:

According to the standard "Educational program Management", 15 criteria are disclosed, of which: 9 criteria have a satisfactory position, 6 criteria require improvement.

6.2. The Information Management and Reporting Standard

- ✓ *The university must ensure the functioning of the information collection, analysis and management system based on the use of modern information and communication technologies and software tools.*
- ✓ *The management of the EP must demonstrate the systematic use of processed, adequate information to improve the internal quality assurance system.*
- ✓ *Within the framework of the EP, there should be a system of regular reporting reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research.*
- ✓ *The university should establish the frequency, forms and methods of evaluating the management of the EP, the activities of collegial bodies and structural units, senior management, and the implementation of scientific projects.*
- ✓ *The university must demonstrate the definition of the procedure and ensuring the protection of information, including the identification of responsible persons for the reliability and timeliness of information analysis and data provision.*
- ✓ *An important factor is the involvement of students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.*
- ✓ *The management of the EP should demonstrate the existence of a mechanism for communication with students, employees and other stakeholders, including the existence of conflict resolution mechanisms.*
- ✓ *The university must ensure the measurement of the degree of satisfaction of the needs of teaching staff, staff and students within the framework of the EP and demonstrate evidence of the elimination of the detected shortcomings.*
- ✓ *The university should evaluate the effectiveness and efficiency of its activities, including in the context of the EP.*
- ✓ *The information collected and analyzed by the university within the framework of the EP should take into account:*
 - ✓ *Key performance indicators;*
 - ✓ *the dynamics of the contingent of students in the context of forms and types;*
 - ✓ *Academic performance, student achievements and expulsion;*
 - ✓ *students' satisfaction with the implementation of the EP and the quality of education at the university;*
 - ✓ *availability of educational resources and support systems for students;*
 - ✓ *employment and career development of graduates.*
- ✓ *Students, employees and teaching staff must document their consent to the processing of personal data.*
- ✓ *The management of the EP should help to provide all necessary information in the relevant fields of science.*

The evidentiary part

In order to automate the process of collecting, analyzing, managing information and organizing the educational process, the University has implemented and operates:

- The University's website (<https://aues.edu.kz/ru>);
- AIS "Platonus" (<https://edu2.aues.kz/>, to track the number of students and consulting activities);
- automated library and information system (<https://library.aues.kz/MegaPro/Web>, to account for available resources);
- automated system "AUPET" (for the formation of modular educational programs, preparation of approval protocols, staffing and individual curricula of students);
- automated 1C system (financial accounting, document management).

The information of interested persons about educational programs and events taking place in the AUPET is also carried out on social networks.

Information management at the University "AUPET" is formalized in the procedure "Information Technology Department" and in the Position of the Department of Software Development ITD (<https://info.aues.kz/smk.html>).

Access to information in the AIS "Platonus" is carried out only for an authorized user and is differentiated depending on the needs of users and the functional responsibilities of the service personnel.

The analysis of information is carried out by methods of comparing indicators, the evaluation criteria of which are presented in departmental regulatory documents and local regulations of the University. The results of the analysis are reflected in the certificates, reports of the structural divisions of the university and provided to responsible persons for making

decisions on improving the process. For example, information about teaching staff is collected by the Department of Academic Affairs, the Institute of Energy and Green Technologies, the Department of Personnel Management in the form of plans-reports on the work of departments, as well as through the rating of teaching staff and departments. They reflect information on the implementation of individual teaching staff plans, professional development, scientific publications, participation in Research and Research work of the student, which is used by the personnel service and the Academic Council during the competition for the position of teaching staff, as well as in the formation of plans for professional development. The information accumulated in the HR department about employees allows you to more effectively form the staffing table and build an individual trajectory of their professional growth.

The management of the EP collects and analyzes data obtained as a result of a survey and questionnaire to assess the quality assurance system of education by indicators:

- the level of academic achievement of students;
- satisfaction of students with the quality of implemented educational programs;
- educational resources and efficiency of the University;
- satisfaction of the employers' organizations and the demand for graduates in the labor market;
- compliance with the requirements of the results and objectives of the educational program, etc.

The data obtained are heard at meetings of the Academic Council of the University, the Rector's Office, and the CEM of the Institute and are used to update learning goals, improve the organization and quality of the educational process (stored in paper form and in specialized databases).

Assessment of the management of accredited EP is carried out on the basis of local University regulations on undergraduate educational programs:

- management of educational activity processes;
- planning and evaluation of the university's activities;
- the procedure for conducting a comprehensive audit, etc.

The tools for ensuring the quality of education are: State mandatory standards of education; university regulations; commissions for quality control of the educational process of educational units; surveys of students about satisfaction with the organization of training; CEM, etc.

In order to prevent and resolve conflict situations, the University has developed and operates the "Code of Honor of the student", the "Code of Honor of teachers and Employees of the University "AUPET", the Rules of Internal Regulations of the University. In addition, there is a Disciplinary Commission, the Disciplinary and Anti-Corruption Council of the University (1609221274_6GArk1.pdf (aues.edu.kz), approved by the rector on 08/03/2020).

In accordance with the Law of the Republic of Kazakhstan "On Personal Data" at the university, the procedure for obtaining consent from students, employees and teaching staff for the processing of personal data is assigned to the service of the Department of IT and Information and Library Resources and is carried out during the registration of these users of the university's corporate network.

The analytical part

Experts note that information management and reporting are provided at the University based on the use of modern information technologies and software tools. The effectiveness and efficiency of the departments' activities within the framework of the implementation of the Educational Programs assigned to them is reflected in the annual reports on the main types of activities: educational and methodological work, Research work, educational work, etc., considered at meetings of the department, the Council of the Institute, the Educational and Methodological Council, the Academic Council of the University. External experts (Independent accreditation agencies, representatives from employers) are also involved to assess the effectiveness and efficiency of Educational Programs.

In general, information management and regular reporting at the University are provided at the required level, however, the phased transition in the 2023-2024 academic year from the AIS of AUPET's own development to the AIS "Platonus" requires regulation of the introduction of a new system.

Strengths/best practice

Not identified.

EEC recommendations for EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

- To fix the transition and implementation of the new digital AIS service "Platonus" in the Local Regulatory Act of the University. To develop instructions, regulations for working in Platonus for different categories of users, with responsibility for the reliability of the entered data and the timeliness of their updating, as well as a plan with deadlines for further implementation of the modules. Due date: until 30.06.2024.

The conclusions of the EEC:

According to the standard "Educational program Management", 16 criteria are disclosed, of which: 16 criteria have a satisfactory position.

6.3. The standard "Development and approval of an educational program"

- ✓ *The university should define and document the procedures for the development of the EP and their approval at the institutional level.*
- ✓ *The management of the EP must ensure that the developed EP meets the established goals, including the expected learning outcomes.*
- ✓ *The management of the EP should ensure the availability of developed models of the graduate of the EP, describing the learning outcomes and personal qualities.*
- ✓ *The management of the EP must demonstrate the conduct of external expertise of the EP.*
- ✓ *The qualifications obtained upon completion of the EP must be clearly defined, explained and correspond to a certain level of the NQS.*
- ✓ *The management of the educational institution should determine the impact of disciplines and professional practices on the formation of learning outcomes.*
- ✓ *An important factor is the possibility of preparing students for professional certification.*
- ✓ *The management of the EP must provide evidence of the participation of students, teaching staff and other stakeholders in the development of the EP, ensuring their quality.*
- ✓ *The labor intensity of the EP should be clearly defined in Kazakhstani loans and ECTS.*
- ✓ *The management of the educational institution should ensure the content of academic disciplines and learning outcomes for the level of study (bachelor's, master's, doctoral studies).*
- ✓ *The structure of the EP should provide for various types of activities corresponding to the learning outcomes.*
- ✓ *An important factor is the availability of joint educational programs with foreign educational organizations.*

The evidentiary part

The development of the EP is carried out in accordance with the Regulations on the development of educational programs based on professional standards (https://aues.edu.kz/frontend/web/uploads/academ-calendar/ru/1609231688_SQq0yF.pdf), which also presents the procedure for evaluating the quality of educational programs. The EP rating is based on the analysis of academic statistics, expert assessments and the results of surveys of employers.

Based on the national qualifications framework approved by the protocol of March 16, 2016 by the Republican Tripartite Commission for Special Partnership and Regulation of Social and Labor Relations, taking into account local regulatory documents of the University by the Department; The Sectoral Qualifications Framework "Information and Communication Technologies", approved by the minutes of the meeting of the sectoral commission in the field of information, informatization, communications and telecommunications of December 20, 2016 No.

1; the state mandatory standard of higher education, approved by the Decree of the Government of the Republic of Kazakhstan dated 08/23/2012 No. 1080; local normative documents of the University, the Department of IT Engineering developed the modular educational program 6B06101 Computer Science (bachelor's degree) and EP 6B06105 – Software Engineering (bachelor's degree) (reviewed and approved by the CEM AUPET, Protocol No. 11 dated 05/17/2023). Programs they passed an external examination (review of EP 6B06105 – Software Engineering (bachelor's degree), signed by the director of the Almaty branch of JSC NIT K. Zhakupov dated 05/27/2021), a review of EP 6B06101 Computer science (bachelor's degree), signed by the director of Computer Services LTD LLP).

In response to requests and recommendations from employers, the following academic disciplines were introduced: Blockchain technology, IoT System development, Distributed Systems and cloud Computing, Immersive and Neurotechnologies, 3D modeling and Augmented Reality technologies.

EP is developed by faculty of departments, employers, students, representatives of IT companies, considered and discussed at meetings of departments, coordinated with leading IT companies, associations, then at a meeting of the Institute's Council (Minutes No. 8 of 02/16/2023; No. 6 of 02/15/2022; No. 5 of 02/12/2021; No. 7 of 02/11/2020). The final approval of the EP takes place at the CEM and the Academic Council of the University.

At the stage of the implementation of the EP, the university conducts systematic monitoring and assessment of the quality of the EP with the participation of students, employees and other interested parties. The republican state enterprise at the republican state enterprise on the right of economic use

«institute of information and computational technologies» of the Ministry of Education and Science of the Republic of Kazakhstan (Mamyrbayev O.Zh.), PIT Alatau (Konysbayev A.T.), Open-K LLP (Mogun K.L.), NIT JSC (Zhakupov K.), Infocom LLP (Nigmatulina A.Sh.), ICORE-Integration LLP (Galimova E.I.), ASSAR GOLD (Eleukenova A.A.) participate in the development of the EP of the Department of IT Engineering.

Within the framework of local regulatory documents of the University, the Department of Thermal Power Engineering has developed MEP 6B07106 – Nuclear power plants and installations (bachelor's degree) and EP (reviewed and approved at the meeting of the Department, Protocol No. 08 dated 04/21/2023). The programs have passed external expertise (review of EP 6B06105 – Software Engineering (bachelor's degree), signed by the director of the Almaty branch of JSC AIES" by G. Ismukhambetov dated 04/21/2023), (reviewed and approved by the CEM AUPET, Protocol No. 06 dated 04/26/2023).

EP 6B07113 – Energy Audit and Energy Management was developed taking into account the State Mandatory Standard of Higher Education (Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2, Appendix 2), the National Qualifications Framework (Approved by the Protocol of March 16, 2016 by the Republican Tripartite Commission on Social Partnership and Regulation of Social and Labor Relations), the industry framework of qualifications "Energy" and professional standards. The modular educational program was developed at the Department of Thermal Power Plants. The heads of the educational program Borisova N.G., Kibarin A.A., Musabekov R.A. Participated in the development of the educational program: Serikov E.A., Ph.D., Professor of the Department of TPP, Genbach A.A., Doctor of Technical Sciences, Professor of the Department of TPP, Dostiyarov A.M., Doctor of Technical Sciences, Professor of the Department of TPP, Aliyarov B.K., Doctor of Technical Sciences, Academician of the National Academy of Sciences of the Republic of Kazakhstan. The program was reviewed and approved at the meeting of the Department of TPP Protocol No. 8 dated April 21, 2023.

EP 6B07126 – Energy supply of oil pumping complexes (Bachelor's degree) was developed on the basis of: the national qualifications Framework, Approved by Protocol No. 2 of March 16, 2016 by the Republican Tripartite Commission on Social Partnership and Regulation of Social and Labor Relations; "Sectoral Qualifications Framework in the field of electric power industry",

Approved by the protocol of the Sectoral Commission on Social Partnership and Regulation of Social and Labor Relations relations in the oil and gas industry dated June 21, 2016, No. 2; The State compulsory standard of higher Education, Approved by the Decree of the Government of the Republic of Kazakhstan dated 08/23/2012 No. 1080 (set out with amendments to the wording of the Decree of the Government of the Republic of Kazakhstan. Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 604. Registered with the Ministry of Justice of the Republic of Kazakhstan on November 1, 2018 No. 17669); The educational program was developed at the departments "Management and Entrepreneurship in Engineering" and "Thermal Power Plants". Heads of the EP: Abildinova S.K., Umbetov E.S. The participants took part in the development of the educational program: Baitenova L.M., Doctor of Economics, Professor of the Department of MEE AUPET; Khazimov M.Zh., Ph.D., Professor of the Department of MEE AUPET;

The catalog of elective disciplines (CED) for each accredited specialty for the upcoming academic year is compiled in January-February and contains a list of disciplines by cycles (basic and profiling), their volume in credits, brief annotations of disciplines, pre- and post-requirements. The CED is electronically posted on the university's website. Disciplines aimed at the study and use of artificial intelligence have been introduced into all scientific fields. When updating the EP, the share of mathematical disciplines was increased. To meet the social demand of the region, the discipline "Fundamentals of anti-corruption culture" was introduced in the educational institutions of all specialties, syllabuses were developed in the state and Russian languages. The proposals and recommendations of employers are taken into account when developing the elective component of educational programs.

Students are given academic freedom to choose the type of final certification, real topics of an applied nature.

The University has developed an algorithm for designing a graduate's competence model based on which graduate models are formed for each EP, taking into account the personal qualities of students and a description of learning outcomes.

The special competencies of the Bachelor's degree programs are developed on the basis of professional standards and standard qualification characteristics of specialists, taking into account the requirements of employers and the social request of society.

The general requirements for the level of training are: professional competence of a bachelor, defined as a set of theoretical and practical skills established by a professional educational program; the ability to perform professional functions within one or more types of activities; understanding the main trends in the development of theory and practice in their professional field.

A graduate of a Bachelor's Degree program must have general professional competencies, as well as special competencies that will allow him to obtain a position and perform work:

- in the field of settlement and design activities;
- in the field of production and technological activities;
- in the field of experimental activities;
- in the field of organizational and managerial activities;
- in the field of installation and commissioning and maintenance activities.

The relationship between competencies and disciplines (sections, modules) is carried out through the correspondence table (matrix), the matrix indicates which competencies from the full list should be mastered as a result of studying the disciplines of each module.

The quality of the EP is checked by conducting an audit of the EP, a prerequisite for which is the submission of an expert opinion of employers on the EP. External expertise is carried out taking into account the involvement of specialists in the assessment of the quality of educational programs in the person of the chairmen of the Academy, heads of practices, interested employers, as well as through the functioning of Industrial Committees.

The proposals and recommendations of employers are taken into account when developing the elective component of educational programs. For example, for the EP "6B07113 – Energy Audit and energy management", representatives of JSC AIES proposed to use real schemes, modes

and test methods in the disciplines "Operation of the main equipment of thermal power plants", "Operation of thermal power and thermal technology equipment of industrial enterprises".

Production practices, depending on the level of training, can be implemented in the following forms: practice in obtaining professional skills and professional experience, research work, pedagogical practice, etc. determined by the educational program, are conducted in production, research organizations, IT companies whose main activity determines the presence of objects and types of professional activities of graduates in this EP. The University fully provides students with internship places.

Graduates, after completing their EP studies, can continue their studies in a master's degree in related EP.

The analytical part

Experts note that the University defines goals for each developed and approved program, the basis of which are the State educational standards, regulatory acts of the Republic of Kazakhstan and the needs of the labor market. When determining the contribution of disciplines to the process of determining learning outcomes, the recommendations and suggestions of employers are taken into account.

The University has favorable conditions for offering students a variety of disciplines within the framework of the field of study, building an individual learning trajectory. The list of disciplines listed in the CED fully corresponds to the modular curricula of accredited specialties approved by the Academic Council of the University. To obtain IT competencies, all students are given the opportunity to choose Minor programs, provided they achieve high academic performance and comply with pre- and post-visa relations.

The graduate models developed by the University fully reflect the main goals and objectives of graduate training, as well as the requirements formulated from the standpoint of the competence paradigm.

An indicator of the success of these programs is an independent assessment of the rating of NCE "Atameken", according to which AUPET was named the second technical private university in 2023.

Experts note that last academic year, the University revised curricula towards increasing theoretical hours, however, according to the results of surveys of employers and students, for more rapid adaptation after graduation in the workplace, an increase in practice-oriented training with the active involvement of employer representatives in this process, involving students in real projects from partner employers is required University. In general, the university is ready to expand its work and move to large-scale practice-oriented training.

Strengths/best practice

The contents of EP 6B06101 Computer science, 6B06105 – Software engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes fully meet the established goals, including learning outcomes. The composition of the EP includes disciplines corresponding to advanced scientific and technological directions of development in the relevant fields.

EEC recommendations for EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

– The management of EP 6B06101 Computer science, 6B06105 – Software engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes, it is necessary to include measures for the introduction of a dual training system in the development plans of each EP and begin their implementation. Due date: by the beginning of the 2024-2025 academic year.

– To strengthen the practice orientation of the EP, develop an action plan aimed at

developing the use of project activities in the implementation of educational programs, for example, to form a pool of relevant projects for the University in the field of digitalization in order to implement them within the framework of EP 6B06101 Computer science, 6B06105 - Software engineering (theses, practice assignments) and attracting the potential of students, in particular, for the development of VR laboratories, simulation simulators for energy specialties. The deadline is by the beginning of the 2024-2025 academic year.

EEC Recommendations for EP 6B07106 – Nuclear power plants and installations

To revise the graduate model of EP 6B07106 "Nuclear power plants and installations" with the inclusion of a section on their further place of employment. Due date: until June 30, 2024

The conclusions of the EEC:

According to the standard "Educational program Management", 12 criteria are disclosed, of which: 1 criterion has a strong position, 11 criteria have a satisfactory position.

6.4. The standard "Continuous monitoring and periodic evaluation of educational programs"

- ✓ *The university should monitor and periodically evaluate the EP in order to ensure that the goal is achieved and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the EP.*
- ✓ *Monitoring and periodic evaluation of the EP should consider:*
- ✓ *The content of the programs in the light of the latest scientific achievements in a particular discipline to ensure the relevance of the taught discipline;*
- ✓ *Changes in the needs of society and the professional environment;*
- ✓ *Workload, academic performance and graduation of students;*
- ✓ *The effectiveness of student assessment procedures;*
- ✓ *Expectations, needs and satisfaction of students;*
- ✓ *The educational environment and support services and their compliance with the goals of the EP.*
- ✓ *The university and the management of the EP must provide evidence of the participation of students, employers and other stakeholders in the revision of the EP.*
- ✓ *All interested parties should be informed of any planned or undertaken actions regarding the EP. All changes made to the EP must be published.*
- ✓ *The management of the EP should ensure the revision of the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society.*

The evidentiary part

The University continuously monitors and periodically evaluates educational programs, including those submitted for accreditation, while the following methods are used as intra-university control by the university: certification of current student performance, final certification, certification of all types of practice, checking the state of methodological support for the educational process, collection and analysis of data on customer satisfaction, internal audits.

The assessment of the quality of the implementation of the EP is carried out within the framework of the general system of monitoring the quality of education, which consists of:

- in the assessment of the management of the EP (the level of teaching staff, the organization of the educational process, regular assessment of the level of achievement of the goals of the program, the demand for graduates);
- in the implementation of the educational program (curriculum, standard programs of disciplines, methodological and information support, infrastructure, educational technologies, research);
- in the results of the EP (intermediate certification, final certification).

Constant monitoring and periodic evaluation of accredited EP is carried out taking into account the proposals of potential employers, heads of production practices, interested persons, students involved in the selection and formation of a Modular curriculum, a catalog of elective disciplines, the development of graduation papers, as well as opinions and suggestions of students

and employers based on the results of industrial practices, proposals of the chairmen of the SAC. It also takes into account the demand for graduates in various fields with the use of information technology, recognition by employers of the quality of training specialists.

The organization of intra–university control over the quality of education and knowledge of students is carried out on the basis of a system of integrated monitoring of educational activities in accordance with the "Rules of credit technology of education" and the internal documented procedure "Regulations for conducting boundary control of academic performance and rating students", according to which the following mandatory types of control are available in the learning process:

- ongoing monitoring of academic performance (including 3 rating weeks in the semester);
- intermediate certification (3 examination sessions per academic year);
- final state certification (passing state exams in the specialty and defending graduation papers (diploma projects)).

At the university, education is carried out in trimesters, based on the division of the curriculum into three parts, each of which lasts approximately 12 weeks. One of the main advantages of such a system is a more intensive study of subjects, since the educational material is distributed over shorter periods. In addition, frequent deadlines for knowledge control contribute to the regular activity of students and increase their academic performance.

The department's development plan is being publicly discussed with representatives of all interested parties, on the basis of proposals and amendments of which the authorized collegial body of the university makes changes to the project. Based on the results of monitoring the satisfaction of the needs of students and employers, changes in the EP aimed at improving the EP are taken into account.

The EP check is carried out in accordance with the EP monitoring methodology, which includes:

- preparation of reports and analysis of students' academic performance;
- analysis of the results of comprehensive exams;
- monitoring the updating and relevance of the topics of graduation projects;
- analysis of the results of the defense of graduation projects;
- analysis of the development of educational and methodological support;
- analysis of the availability and quality of intra-university documentation;
- survey of consumers (employers) to assess the quality of educational services provided, analysis of the information received;
- analysis of the level of informatization of the educational process;
- the effectiveness of the research work of teaching staff and students;
- survey of applicants, students, graduates, teaching staff, and employer organizations;
- assessment of the level of compliance and competence of the teaching staff.

To identify the level of student satisfaction with the educational program, an analysis is carried out by means of a questionnaire at the beginning of each semester for the previous period. The obtained results are analyzed at meetings of the Educational and Methodological Council (EMC) of the department, where appropriate decisions are made. Also, at the beginning of each semester, students have the opportunity to participate in an online questionnaire called "Teacher through the eyes of students", available on their personal pages.

The minutes of the department's meetings serve as evidence of the participation of students, employers and other stakeholders (government agencies) in the revision of the EP.

The discussion of the results of the current and final control is held at the meetings of the CEM of the department, the BS of the Institute, the CEM of the University, as well as at the Academic Council of the University.

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

The analytical part

The university is actively working to attract employers, in particular, in the design and development of EP.

The staff of the department, representatives from employers take part in the development of the EP. Development issues are discussed at methodological seminars and meetings of the department, as well as employers actively participate in the formation of elective disciplines. The procedure for approving the EP with potential employers has various forms: approval by e-mail, arrival of a representative from the enterprise to the University, departure of a representative of the University to the enterprises.

Discussions on the changes to the EP are carried out at meetings of departments, educational and methodological councils, and the Academic Council of the university. However, experts note the lack of a mechanism for informing all interested parties on the university's website about any planned or undertaken actions in relation to accredited EP. The university does not publish information about the changes made to the EP. The University has not systematically worked out mechanisms for notifying interested parties about changes in EP.

In order to manage information at the university in the 2024 academic year, the automated information system "Platonus" was introduced – (<https://edu2.aues.kz/>), it provides registration of students, planning of their educational trajectories, formation of individual curricula, determination of students' GPA, conducting various forms of control, training by testing, accumulation of educational achievements, formation of a transcript.

Strengths/best practice

Not identified.

EEC recommendations for EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

– To update the description of the EP on the external website of the University in terms of the changes made to them. To think over system mechanisms for timely notification of all participants in the educational process, as well as partner employers, about the changes being made to the educational program. Due date: until 30.05.2024

EEC Recommendations on 6B07106 "Nuclear power plants and installations"

- To consider possible changes in the EP, taking into account the implementation and timing of the construction of nuclear power plants in the Republic of Kazakhstan, the needs of society and the professional environment and the number of specialists in this EP Deadline: until 30.05.2024

The conclusions of the EEC:

According to the standard "Educational program Management", 10 criteria are disclosed, of which: 9 criteria have a satisfactory position, 1 criterion implies improvements.

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

- ✓ *The management of the EP should ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths.*
- ✓ *The management of the EP should ensure the use of various forms and methods of teaching and learning.*
- ✓ *An important factor is the availability of own research in the field of teaching methods of educational disciplines.*
- ✓ *The management of the EP should demonstrate the existence of a feedback system for the use of various teaching methods and evaluation of learning outcomes.*
- ✓ *The management of the EP should demonstrate support for the autonomy of students with simultaneous guidance and assistance from the teacher.*
- ✓ *The management of the EP must demonstrate the existence of a procedure for responding to student complaints.*
- ✓ *The university must ensure consistency, transparency and objectivity of the learning outcomes assessment*

- mechanism for each EP, including the appeal.*
- ✓ *The university must ensure that the procedures for evaluating the learning outcomes of students of the EP correspond to the planned learning outcomes and the goals of the program. The evaluation criteria and methods within the framework of the EP should be published in advance.*
 - ✓ *The university should define mechanisms to ensure that each graduate learns the results of their studies and ensures the completeness of their formation.*
 - ✓ *Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area.*

The evidentiary part

The university takes into account the needs of different groups of students. The training of students is conducted at 3 levels of training: bachelor's, master's and doctoral studies, in 3 languages: Kazakh, Russian and English. Education in English is conducted at the choice of students with a high level of English proficiency. The selection of the groups was carried out at their request and taking into account their level of English proficiency. For everyone, the university has an English-speaking club, which allows students to practice their spoken English with a native speaker, overcome the barrier of shyness, and encourages them to further study the language as a lingua franca.

The guidance of the EP takes into account different groups of students, such as students with disabilities, student parents, students who are orphans and under care, students from different social and cultural groups, international students, etc. In accordance with the Law of the Republic of Kazakhstan "On Social Protection of persons with disabilities in the Republic of Kazakhstan" dated December 09, 2016 No. 1050, a comfortable environment has been created at the university for students with special needs. The academic buildings of the university have ramps, doorways, sanitary and hygienic rooms for students with disabilities to study and live. The university has a specialized office "Center for psychological adaptation".

The University has developed "Methodological recommendations on the organization and conduct of work with students with special health conditions (SHC)", intended for the teaching staff and university staff who interact with students with special health conditions by type of activity.

The management of EP 6B06105 – Software Engineering predicts the development of student groups based on professional interests, such as Web developers, Startup Groups, IC developers, graphics and design developers, game development groups, etc.

On the basis of the AUPET, the students' trade union committee is organized as the highest body of student self-government of the university, representing the rights of students to participate in the management of the educational process, solving important issues in the life of students, developing their social activity, supporting and implementing social initiatives (<https://studlife.aues.kz/studklubs/>). There are active student clubs on the basis of AUPET, such as:

- "The organizational sector",
- UNIX — University music Club,
- StudiA315 — club of photographers and video makers,
- Ulagat — national patriotic club,
- "ADC" — Aues dance club,
- "Kos Alka" — creative folk dance club,
- "Gibrat" — national cultural club,
- "CCC" — children charity club,
- "EDC" — Discussion club "Energó",
- "Sci.Engine" — science club,
- "MARS",
- "Jaidarman".

The needs of students based on their professional interests are identified through regular surveys, questionnaires, individual conversations, competitions, as well as through the analysis of

training and academic performance data.

For students of EP 6B06101 – Computer science, 6B06105 – Software Engineering, from the 2023-2024 academic year, a trimester training format has been introduced, allowing graduates of the program to use their acquired professional competencies in the labor market as certified specialists after three years. Due to the fact that the IT industry is the most dynamically developing and technologies can become outdated in a very short time, this practice will allow graduates to enter the market with the most relevant competencies.

For language disciplines and disciplines of the mathematical cycle, a level distribution into groups is practiced.

The AUPET provides the opportunity to transfer the results of training at previous levels, and certificates of open educational platforms Coursera and Udemy are also counted.

Experts note that the appeal of the results of the knowledge assessment is regulated and carried out by submitting a written application of the student within the prescribed period to the dean's office of the relevant institute. After receiving the application, the appeals commission, approved by the order of the University, re-evaluates the work and makes an appropriate decision.

The publication plan of methodological materials is approved annually, methodological developments of teachers are considered at the department. All educational and methodological materials undergo a review procedure through the university-wide educational and Methodological Commission for Methodological Support and Expertise (UEMC), as well as through the Anti-Plagiarism system. There is also a committee on methodological work under the CEM.

The analytical part

At the University, student-centered learning is implemented by providing students with the opportunity to form their individual educational trajectory (individual curriculum); participate in academic mobility programs (https://aues.edu.kz/frontend/web/uploads/academ-calendar/ru/1609229904_tsYaUI.pdf, https://aues.edu.kz/frontend/web/uploads/academ-calendar/ru/1609229217_Pn6kCC.pdf) have the opportunity to study in multi-level groups, in additional or repeated study of disciplines.

The practice of level distribution into groups in the disciplines of learning foreign languages and disciplines of the mathematical cycle allows students with a higher level of training to get into an advanced group and begin a deeper study of the subject, and protects students with lower preparedness from stress, reduced academic performance and allows them to gently "catch up" with their peers in some disciplines. The university administration pays attention to the psycho-emotional state of students.

From the 2022-2023 academic year at the university, students in EP 6B06101 – Computer science, 6B06105 – Software Engineering have the opportunity to study the Basics of routing and switching in Computer networks (Cisco) for 2 semesters, as alternative disciplines. Minor programs allow the most capable students, in addition to their main profession, to master competencies in related fields.

However, experts note that the university does not have a description of the procedure for distributing students by specialization (in a competitive situation, taking into account their academic performance); published rules for registering students for disciplines and teachers regulating the choice of disciplines and teachers, conditions under which a choice is not possible, etc. According to the results of mastering the disciplines, students can undergo professional certification and have certificates of international standard, but this process is not systematically regulated at the university, therefore it does not have mass implementation.

The EP is designed with an emphasis on obtaining competencies corresponding to the Dublin descriptors, which ultimately contributes to a deep understanding and application of knowledge in practice.

The assessment of knowledge is carried out in accordance with the Rules for the ongoing monitoring of academic performance, intermediate and final certification of students https://aues.edu.kz/frontend/web/uploads/academ-calendar/ru/1609224767_SSB8oa.pdf.

Experts note the high level of proficiency of teachers in modern educational teaching methods and evaluation of learning outcomes, which is confirmed, inter alia, by the presence of a systematic approach to the procedure for preparing teaching and methodological publications by teaching staff and the University's support for the publication activity of teaching staff, as a result of a high qualitative and quantitative level of publications of an educational and methodological nature.

Strengths/best practice

The presence of own advanced research in the field of teaching methods and evaluation of the results of mastering educational disciplines of the University, high-quality educational and methodological publications developed by the Faculty of the University and meeting modern trends in the field of education.

EEC recommendations for EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

–To develop a local regulatory act regulating the distribution of students by specialization (in a competitive situation, taking into account their academic performance). Due date: July 2024

–To develop a local regulatory act (Rules for registration of students for disciplines and teachers) regulating the choice of disciplines and teachers at the university is regulated. Due date: July 2024

EEC Recommendations for EP 6B06101 Computer Science, 6B06105 – Software Engineering

– The management of EP 6B06101 Computer science, 6B06105 – Software Engineering should carry out targeted work on the systematic organization of training students for professional certification, including recognition of the results of informal learning. Due date: August 2024

The conclusions of the EEC:

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

6.6. The "Students" standard

- ✓ *The university must demonstrate the policy of forming a contingent of students in the context of the EP from admission to graduation and ensure transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) must be defined, approved, and published.*
- ✓ *The management of the EP should demonstrate the implementation of special adaptation and support programs for newly enrolled and foreign students.*
- ✓ *The university must demonstrate that its actions comply with the Lisbon Recognition Convention.*
- ✓ *The university should cooperate with other educational organizations and national centers of the "European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers" ENIC/NARIC in order to ensure comparable recognition of qualifications.*
- ✓ *The management of the EP should demonstrate the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education.*
- ✓ *The university should provide an opportunity for external and internal mobility of students of the educational institution, as well as assist them in obtaining external grants for training.*
- ✓ *The management of the EP should make maximum efforts to provide students with internship places, promote the employment of graduates, and maintain contact with them.*
- ✓ *The university must provide EP graduates with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion.*
- ✓ *An important factor is the monitoring of the employment and professional activities of graduates of the EP.*

- ✓ *The management of the EP should actively encourage students to self-education and development outside the main program (extracurricular activities).*
- ✓ *An important factor is the existence of an active alumni association/association.*
- ✓ *An important factor is the availability of a support mechanism for gifted students.*

The evidentiary part

The University has regulated procedures for the formation of a contingent of students in the context of admission requirements (Admission rules https://aues.edu.kz/frontend/web/uploads/academ-calendar/ru/1609220680_D15Vxu.pdf, https://aues.edu.kz/frontend/web/uploads/academ-calendar/ru/1609220415_r1ghEv.pdf), before the release (Rules for issuing documents: https://aues.edu.kz/frontend/web/uploads/academ-calendar/ru/1609219441_Fvb0GS.pdf, https://aues.edu.kz/frontend/web/uploads/academ-calendar/ru/1609219295_nexJCS.pdf) and ensures transparency of procedures. Every year, the university approves the price list for paid educational services (Regulations on the system of payment and provision of discounts for tuition (https://aues.edu.kz/frontend/web/uploads/academ-calendar/ru/1609222443_-Kd7SD.pdf)).

The minimum requirements for applicants entering the AUPET in the 2024-2025 academic year are a set of UNT scores of at least 60 for groups of educational programs (GOP) "Electrical Engineering and Energy" and for GEP "Information Technology", "Electrical Engineering and Automation" of at least 75 points.

The university's website contains information for those who wish to study at AUPET <https://aues.kz/>. Also, during the work of the admissions committee, applicants and their parents can ask their questions to the technical consultants of the AUPET Admissions Committee, the University also has a call center.

On a monthly basis, the student department of the university compiles a summary of the contingent of students in the context of educational programs, forms of study, courses and languages of instruction and, as an appendix to it, a table of the movement of the contingent of students indicating the names and wording of the issued orders.

The mechanism for recognizing previous learning outcomes and qualifications in other universities, as a result of academic mobility, at the University is based on the normative documents "Regulations on credit Transfer according to the type of the European Credit Transfer System (hereinafter – ECTS)". In addition to academic mobility, this mechanism covers the results of studies at other universities, as well as various international certificates (TOEFL, IELTS, Coursera, Udemy and others).

Academic mobility is carried out within the framework of agreements between SCO universities, the European funded Erasmus+ project, the British Council KA 1, International Credit Mobility, as well as various scholarship programs offered by governments and organizations of foreign countries. In total, more than 60 cooperation agreements have been concluded with foreign universities from 23 countries, including: Japan, Germany, Italy, France, Spain, Estonia, Malaysia, Poland, Turkiye, Georgia, Azerbaijan, etc.

In the process of educational work, issues of education of patriotism, citizenship, interfaith tolerance and interaction; social issues (promotion of ideas and values of a healthy lifestyle, combating gambling, drug addiction, drunkenness, religious extremism, prevention of tuberculosis and hepatitis); prevention of offenses; carrying out cultural support activities have been identified as priority areas. Since September 2016, the AUPET psychological service has been operating.

The Alumni Department has been established and functions to coordinate the activities of the Alumni Association and ALUMNI CLUB Energo.

- Graduates provide support to the university through:
- financing the development of the university: the opening of new classrooms with technical equipment, the modernization of educational laboratories, a sports complex, the opening of a new academic building or dormitory, etc.;
- sponsorship, payment of scholarships to students from socially vulnerable categories;
- Financing of conferences or research programs;

- financing of socially significant projects for employees and students;
- providing places of practice and employment, attracting experienced production workers to conduct guest lectures and reading modules/disciplines;
- support for student startups and scientific and innovative projects;
- The organization "alumni talks" is a platform for getting to know the personal success stories of graduates who have achieved great success in their professional activities;
- Mentoring.

The goals of the Alumni Club are:

- Strengthening and supporting communication between graduates of APEI-AIPET-AUPET.
- Encouraging and facilitating the professional and personal development of graduates.
- Support and development of educational, cultural and professional initiatives among Alumni Club members.
- Fundraising and providing financial support to an educational institution and/or other charitable projects related to it.

Work is underway to create an ENDOWMENT FUND to form a long-term source of funding for certain non-profit activities

The university has 10 sections in various sports (football, mini-football, volleyball, basketball, boxing, judo, tennis, chess, etc.). Students of accredited EP have the opportunity to study in sections.

The students of the 4 clusters are involved in research activities.

Under the guidance of teachers, a team of AUPET students took part in competitions:

1. International Digital Bridge Forum-2022 and 2023
2. The Republican Research and Development Competition "Student Energy Challenge", organized by the Kazenergy Association and Shell Kazakhstan, 2022. The winning amount is 2.4 million tenge.
3. Exhibition of innovative ideas "UpGrade" Development of an on-board combat projectile control system, 2022

The graduate's professional career is supported by the AUPET Board of Trustees, which also includes graduates who hold high positions in large organizations. Every year, the Board of Trustees of the AUPET Alumni Association holds meetings to discuss proposals and activities aimed at fostering a happy and harmonious personality within the walls of the alma mater, to improve the educational process at the university. Members of the Board of Trustees provide financial support to students from vulnerable segments of the population, offer their recommendations on the modernization of educational laboratory equipment, discuss issues of improving educational programs, etc. Over the period from 2020 to 2023, more than 12,000,000 tenge was allocated at the expense of the Board of Trustees to pay nominal scholarships and provide social support to students.

The analytical part

Experts note a low percentage of foreign students, in general, the total number of foreign students at the university in the current 2023-2024 academic year is 31 people from 8 countries. AUPET has developed and operates a program for the adaptation of international students to the conditions and requirements of the educational process at AUPET. It includes various areas: social, psychological, intercultural, educational, scientific and research forms of adaptation. The university has dormitories, there are conditions for increasing the number of students from abroad.

Despite the existence of regulatory documents and cooperation agreements, experts note the weak implementation of academic mobility programs for students in cluster 4. In the current academic year, Cluster 4 students did not participate in academic mobility programs.

Experts note the introduction of a new one-stop-shop communication model at the University starting in February 2024. The established Academic Counseling Center provides students with assistance in adapting to higher education, advises on the main academic processes, provides information about educational programs, rules for organizing the educational process,

credit technology, etc. Also, students with high academic performance can, in cooperation with the academic advisor of the CAC, build the most preferred learning trajectory, including the development of additional Minor programs, which will allow them to be more competitive as a graduate in a dynamically changing labor market.

Experts note a small, unprofitable group of students in EP 6B06101 – Computer science (4 people), which requires an analysis of the situation; strengthening career guidance to attract applicants, including foreign ones. The competition for IT specialties in demand for the Republic of Kazakhstan in OP 6B06101 – Computer science, 6B06105 – Software engineering is not high, which requires consideration and implementation of additional measures to increase the competitiveness and attractiveness of EP.

At the university, the Alumni Association of the University, within the framework of the Alumni Club initiative, interacts with graduates, but communication channels are used for communication that make it difficult to interact systematically on a regular basis.

Experts note that the following opportunities are available to support gifted students at AUPET: the foundation of the AUPET Alumni Association, tuition discounts (for students on a fee basis, nominal scholarships, transfer from paid form to grant funding, priority opportunity for academic mobility. Information about the planned scholarship programs is presented on the website, on the stands of the department and the institute, and is brought to the attention of students through the ICD Telegram channel.

Monitoring of the implementation of the educational program and evaluation of the achievement of learning goals is carried out through the final certification of graduates, feedback on the internship, the work of the University Board of Trustees.

Strengths/best practice

Not identified.

EEC recommendations for EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

–To develop an action plan aimed at attracting foreign applicants, promoting the EP abroad. Due date: May 2024

–To develop an action plan aimed at improving the academic mobility of students. Due date: June 2024

–Consider the possibility of introducing a digital service (personal account) for graduates to track their career growth and further involve them in the development of the University. Due date: November 2024.

EEC recommendations for EP 6B06101 – Computer science, 6B06105 – Software Engineering

–To analyze the possibility of creating branded joint educational projects with leading IT companies in Kazakhstan, for example, with such as Platonus with a guarantee of employment of the best students in order to increase their competitiveness and attractiveness. Implementation period: until 30.08.2024.

–To analyze the possibility and relevance of developing joint educational programs with leading foreign universities for double diplomas in EP 6B06101 Computer science, 6B06105 – Software Engineering in order to increase the attractiveness of EP for foreign students. Due date: until December 2024.

EEC Recommendations for EP 6B06101 Computer Science

–To develop an action plan aimed at increasing the contingent for studying at EP 6B06101 – Computer science, including attracting foreign applicants. Due date: June 2024

EEC recommendations on EP 6B07106 Nuclear power plants and installations

- To develop a Plan to attract foreign applicants to EP 6B07106 Nuclear power plants and installations, and a special program for adaptation and support of foreign students. Deadline: until August 30, 2024

- To conduct an analysis of the educational services market in order to determine the possibility of external and internal mobility of students of EP 6B07106 Nuclear power plants and installations. Due date: until August 30, 2024

- To develop a program to provide internship places for students and further employment of graduates of EP 6B07106 Nuclear power plants and installations. Due date: until June 30, 2024

The conclusions of the EEC:

According to the "Students" standard, 16 criteria are disclosed, of which: 16 criteria have a satisfactory position.

6.7. The standard "Teaching staff"

- ✓ *The university should have an objective and transparent personnel policy, including in the context of the EP, including recruitment, professional growth and staff development, ensuring the professional competence of the entire staff.*
- ✓ *The university must demonstrate that the staff potential of the teaching staff corresponds to the university's development strategy and the specifics of the EP.*
- ✓ *The management of the EP must demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.*
- ✓ *The management of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning.*
- ✓ *The university should determine the contribution of the Faculty of EP to the implementation of the university's development strategy, and other strategic documents.*
- ✓ *The university should provide opportunities for career growth and professional development of EP teaching staff.*
- ✓ *The management of the EP should involve practitioners of relevant industries in teaching.*
- ✓ *The management of the EP should ensure targeted actions for the development of young teachers.*
- ✓ *The university should demonstrate motivation for the professional and personal development of teachers of the EP, including encouraging both the integration of scientific activity and education, and the use of innovative teaching methods.*
- ✓ *An important factor is the active use of teaching staff of information and communication technologies in the educational process (for example, on-line training, e-portfolio, MOE, etc.).*
- ✓ *An important factor is the development of academic mobility within the framework of the EP, attracting the best foreign and domestic teachers.*
- ✓ *An important factor is the involvement of teaching staff in the life of society (the role of teaching staff in the education system, in the development of science, the region, the creation of a cultural environment, participation in exhibitions, creative competitions, charity programs, etc.).*

The evidentiary part

The personnel policy at the departments generally comes from the general personnel policy of the University. Institutional procedures in relation to teaching staff and staff (recruitment, promotion, encouragement, reduction, dismissal, rights and duties, job descriptions) have been developed on the basis of the laws of the Republic of Kazakhstan "On Education", the Labor Code, the Charter of the AUPET.

Recruitment at the AUPET University is carried out on the basis of an analysis of the needs of the EP in accordance with the normative indicators established by the relevant legislative acts. When selecting personnel, the administration relies on the staffing table, a system of signing employment contracts with pre-defined rights and obligations, working conditions, social package and financial compensation is used.

The Personnel Management Department of the University coordinates the issues of hiring, registration, etc. of employees, teaching staff.

The competitive procedures of the teaching staff are regulated by the Regulation on the

competitive replacement of teaching staff positions (https://aues.edu.kz/admin/web/uploads/personal-documents/1651645168_u4K1X0.pdf), which describes the procedure for announcing the competition, forming the competition commission, accepting and reviewing documents, the procedure for conducting the competition, the procedure for appealing the results of the competition and the regulations on the competitive replacement of positions of teaching staff and researchers of the university. However, this procedure requires clarification, transparency, in terms of the indicators required for PPP.

AUPET has developed a Regulation on bonuses for publications in Q1 and Q2 journals in order to internationalize and integrate university employees and students into the global scientific space and motivate them to publish in highly rated international publications.

Decisions on hiring, incentives and penalties, and promotion are brought to the attention of teachers through the rector's orders, which can be announced at meetings of the boards of institutes, the academic council, the rector's office, solemn meetings or sent to the head of the department using the automated Tezis document management program. Along with this, teachers have the opportunity to make an appointment with the rector on the days set by the schedule, attend meetings of the academic council, address working questions to vice-rectors and heads of departments in working mode without prior appointment.

The level of competence of teaching staff is determined during mutual attendance of classes, conducting an open class, passing a competition for a position, and certification of teaching staff. When visiting each other, the document "Feedback on the quality of the open class" is filled in (the Lists of mutual visits of teaching staff for EP 4 of the cluster are presented).

All teaching staff involved in the implementation of the EP 4 cluster have individual plans, which include the following sections: academic work, educational and methodological work, research work, professional development and social and educational work (IE teachers).

To conduct classes on EP 6B06101 – Computer science, 6B06105 – Software engineering, practitioners with experience in the relevant IT sectors are widely involved, for example, under the agreement, an invited highly qualified specialist, Ph.D., Associate Professor Konysbaev A.T. (President of the Associations of Innovative Companies of the SEZ Park of Innovative Technologies) participates; professor participates on a permanent basis; under the PhD agreement Mamyrbayev O.Zh. (deputy. Director General of RSE PEU "Institute of Information and Computational Technologies" of the SC MES RK); on a permanent basis, Master's degree Naumenko V.V. (Cluster WEB Company), an invited highly qualified specialist Kalimoldaev M.N. (General Director of the RSE "Institute of Information and Computing Technologies" of the Committee of Science of the Ministry of Education and Science of the Republic of Kazakhstan) participates under the agreement.

The results of research and development of teaching staff are introduced into the educational process, in production, the results of research are published in the form of monographs, articles in various scientific journals and conference collections.

Monitoring of the effectiveness of research at departments is conducted by listening to reports on the results of work at the department's permanent scientific seminar every year, as well as checking the implementation of plans by the university commission.

In 2018, a Regulation on the certification of the teaching staff of the AUPET University was developed (Order No. 64 dated 04/09/2018), according to which the level of professional training, competence of teaching staff, compliance with the position is determined.

The results of the rating assessment of the teaching staff are one of the criteria for determining the winners in the competition "The best teacher of AUPET".

In the period from 2022 to 2024 academic years, teachers of the IT Engineering Department completed advanced training courses, a total of 46 certificates for 72 hours were received, including 8 Coursera certificates.

All teaching staff have free access to leading electronic libraries: the Republican Interuniversity Electronic Library, the Kazakh National Electronic Library.

The analytical part

Experts note the existence of a personnel policy, including in the context of accredited EPS, ensuring the professional competence of the teaching staff involved in the implementation of the EPS, however, the requirements for the teaching staff require clarification.

Remuneration provides for the ranking of teaching staff, depending on the availability of an academic degree, honorary and other titles. There is a system of moral and material incentives for quality work.

Staff promotion is carried out by forming a personnel reserve from among masters, young scientists and specialists.

Experts note that the need for teaching staff in accredited EP is determined from the ratio of teachers and students in the bachelor's degree - 1:8, as well as the contingent of students in specialties, WC, the list of elective disciplines, individual plans of students, however, according to EP 6B06101 – Computer science, this ratio is not maintained.

Experts note that the University, having a material and technical base, does not fully use the capabilities of external digital educational platforms and the introduction of a mixed learning format, especially at the IT-profile level.

The University administration provides social support to university employees through various measures, such as the provision of benefits and social services, financial incentives, and training and development of professional and general competencies through training, mentoring, as well as through participation in professional conferences.

Experts note that teaching staff are not sufficiently involved in the development of the university's strategy.

In order to support young teachers at the departments involved in the implementation of the EP 4 cluster, work is underway to create a personnel reserve, and material support is provided for research and internships. Young teachers who are actively engaged in scientific research, who manifest themselves as creative individuals with an active lifestyle, are sent to doctoral studies.

The University holds, at its own expense, a competition for grant financing of fundamental and applied scientific research on scientific and (or) scientific and technical projects among the teaching staff of the AUPET.

Strengths/best practice

Not identified.

EEC recommendations for EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

– To develop a program for the recruitment of teaching staff with a transparent competitive selection procedure (regarding the requirements for teaching staff) and taking into account the level of qualification of specialists. Due date: May 2024

– To ensure, on a systematic basis, the broad involvement of teaching staff in the development and discussion of the University's Development Strategy. Deadline: until the approval of the University's Development Strategy for the period up to 2030.

– To develop a program for the development and further implementation of online learning (elements of online learning) in the educational process, providing for the creation of a University-based platform for the development of MOE, simulation simulators, VR applications, etc.; expansion of the University's partnership with global national and international online educational platforms to promote educational services and enhance the academic reputation of AUPET; systematic development of competencies of teaching staff in the field of using digital resources, methods of organizing and conducting online training. Due date: July 2024

The conclusions of the EEC:

According to the "Teaching staff" standard, 9 criteria are disclosed, of which: 8 criteria have

a satisfactory position, 1 criterion suggests improvements.

6.8. The standard "Educational resources and student support systems"

- ✓ *The management of the EP must demonstrate the sufficiency of material and technical resources and infrastructure.*
- ✓ *The management of the EP should demonstrate the availability of support procedures for various groups of students, including information and counseling.*
- ✓ *The management of the EP must demonstrate the compliance of information resources with the specifics of the EP, including compliance:*
 - ✓ *technological support for students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);*
 - ✓ *library resources, including the collection of educational, methodological and scientific literature on general education, basic and profile disciplines on paper and electronic media, periodicals, access to scientific databases;*
 - ✓ *examination of research results, graduation papers, dissertations on plagiarism;*
 - ✓ *access to educational Internet resources;*
- ✓ *The operation of WI-FI in the territory of the educational organization.*
- ✓ *The university should strive to ensure that the educational equipment and software used for the development of educational programs are similar to those used in the relevant industries.*
- ✓ *The university must ensure compliance with safety requirements in the learning process.*
- ✓ *The university should strive to take into account the needs of various groups of students in the context of EP (adults, working, foreign students, as well as students with disabilities).*

The evidentiary part

Experts note that within the framework of training in EP 6B06101 – Computer science, 6B06105 – Software engineering, educational equipment and software tools similar to those used by high-tech companies in the IT industry are used. in the relevant industries. The Cisco Regional Academy of the International Corporation Cisco Systems (center – USA) operates on the basis of JSC AUPET, which has the necessary modern solutions for obtaining competencies in the field of network equipment.

One of the modern trends in the educational process is the widespread use of virtual laboratory facilities in an interactive mode. The faculty also develops video lectures and conducts online consultations with students. AUPET has a web-based distance learning server at <http://online.aues.kz/>, freely accessible from the unified network of the university and accessible by login/password from the Internet. For the convenience of students of any form of education, educational and methodological materials on disciplines are posted on the server. Virtual laboratory resources from Microsoft Education are also widely used, which offers easy-to-use, inclusive tools, technologies and resources that help maintain student engagement in the educational process and fulfill the curriculum.

In January 2024, a new virtual and augmented reality training laboratory was opened on the basis of the IT Engineering Department of the Institute of Automation and Information Technology. The laboratory is equipped with advanced equipment and software. Each student's workplace is equipped with a computer with a virtual reality helmet and control devices. The equipment was purchased at the expense of the university and is a continuation of systematic work to improve the material base for the implementation of the educational process in accordance with modern labor market requirements. Virtual and augmented reality (VR/AR) technologies are increasingly being used in the fields of design, industry, mining, marketing, advertising, construction, etc.

Experts note a good material and technical base for the EP "Energy Audit and Energy Management", "Nuclear power plants and installations", "Energy supply of oil and gas pumping complexes" consisting of twelve specialized laboratories, such as: "Thermal power plants", "Superchargers and heat engines", "Boiler installations and steam generators", "Fluid Mechanics and gas", "Systems of production and distribution of heat carriers", "Technology of water and fuel", "Technology of water and fuel", "TTI", "Materials Science", "Technical thermodynamics and heat and mass transfer", "Chemical bases", "Workshop" and the scientific and technical center

"Research of problems of development of thermal power engineering".

To meet the information needs of teachers, students, undergraduates and doctoral students, access is open through the National Center for Scientific and Technical Information (NCSTI) to electronic resources: Web of Science "Clarivate Analytics" (formerly Thomson Reuters); SpringerLink (Springer GmbH); Science Direct, Scopus (Elsevier B.V.), as well as other resources: "Polpred.com", ELS "IPRbooks", ELS "Lan Publishing House", RSL EL dissertations, ELS "Yurayt", "RIEL". The library has more than 10 information and bibliographic databases ("Energy of Kazakhstan", "Communications of Kazakhstan", "Fuel and Energy of Kazakhstan", etc.). there is also an interlibrary subscription (ILS), the services of which are used by all readers of the university and in this regard, the library cooperates with many organizations (with which signed contracts), such as: RSTL RK, NAS RK, National Library of the Republic of Kazakhstan, KazNTU, KazNU, KBTU, KazUIRandWL, IEC, KazNPU, RSI "NAL RK", NCSTE.

The analytical part

According to the results of meetings with the management, students, graduates and employers, the EEC members found that the university organized work in the field of career guidance, student support, created an educational environment for students to achieve the required professional level, provided representation of students in the collegial governing bodies of the university, developed methods of feedback and informing students, organized cultural and social life students.

The management of the EP, together with the management of the university, on a regular basis create conditions to ensure the sufficiency of material resources and infrastructure for conducting scientific research, providing bases of practices, integrating science into the educational process, publishing the results of research work of students. The laboratory base of the educational programs of the Department of Thermal Power Engineering allows students, undergraduates and doctoral students to master the necessary skills and knowledge of operation and analysis of the main and auxiliary thermal power equipment, allows for scientific research and experiments. As part of the partnership, scientific research and professional practice are carried out on an ongoing basis at a specialized test site (fire stand for testing boilers, burners, heat exchangers) on the basis of a partner of Kazkotloservice LLP. Also, the base of practices is Buran-Boilers LLP, where students and undergraduates of the department receive practical skills and further employment.

At a meeting with the EEC, the University management noted that it plans to open additional coworking centers, places for extracurricular activities, repair of buildings and places of leisure for students. Accordingly, the university management needs to analyze the available resources and consider the possibility of expanding the areas for recreation and informal education of students.

At the moment, there is no contingent of students at EP 6B07106 – Nuclear power plants and installations and the places of internship and further employment of graduates are not fully designated.

The procedure for supporting students with disabilities is regulated by the regulations of the university's QMS. At the same time, the EEC experts note that the university management needs to analyze the possibilities of participation in educational and other processes of potential groups of people with disabilities and for the identified categories of people to continue working on the organization of barrier-free access to all resources and processes.

At a meeting with all target groups, the problem of unstable operation of the Wi-Fi network at the University was unanimously voiced.

Strengths/best practice

Not identified.

EEC recommendations for EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power

plants and installations, 6B07126 – Energy supply of oil pumping complexes

– Develop a plan to expand the areas of stable operation of the Wi-Fi network at the University. Due date: May 2024

EEC recommendations on EP 6B07106 Nuclear power plants and installations

- To develop an action plan aimed at providing educational equipment and laboratory stands (or virtual ones) in the following disciplines: protection from ionizing radiation, nuclear power reactors. Due date: October 30, 2024

The conclusions of the EEC:

According to the standard "Educational resources and student support systems", 9 criteria are disclosed, of which: 9 criteria have a satisfactory position.

6.9. The standard "Informing the public"

- ✓ *The information published by the university within the framework of the EP should be accurate, objective, relevant and should include:*
 - ✓ *implemented programs, indicating the expected learning outcomes;*
 - ✓ *information about the possibility of awarding qualifications at the end of the EP;*
 - ✓ *information about teaching, training, assessment procedures;*
 - ✓ *information about passing scores and educational opportunities provided to students;*
 - ✓ *information about graduate employment opportunities.*
- ✓ *The management of the EP should use a variety of ways to disseminate information, including the media, information networks to inform the general public and interested parties.*
- ✓ *Public awareness should include support and clarification of the national development programs of the country and the system of higher and postgraduate education.*
- ✓ *The university must publish audited financial statements on its own web resource, including in the context of the EP.*
- ✓ *The university must demonstrate the reflection on the web resource of information characterizing the university as a whole and in the context of educational programs.*
- ✓ *An important factor is the availability of adequate and objective information about the staff of the EP, in terms of personalities.*
- ✓ *An important factor is to inform the public about cooperation and interaction with partners within the framework of the EP, including scientific/consulting organizations, business partners, social partners and educational organizations.*
- ✓ *The university should post information and links to external resources based on the results of external assessment procedures.*
- ✓ *An important factor is the participation of the university and the implemented EP in a variety of external assessment procedures.*

The evidentiary part

The University publishes information about its main activities, changes and achievements on the university's website. Basic information about educational programs with an indication of the purpose of the EP, learning outcomes, and a list of all disciplines is available on the official website of the AUPET in the section "For applicants" - "Educational programs".

On the main website of the university, you can find such sections as: Rules for admission of foreign students; About us; History of the University; Strategy, policy; Structure; Management; Gallery; News; Accreditation and rating, etc. There is also an Electronic Library section for accessing the electronic resources of the AUPET Library (<http://libr.aues.kz/>).

Information on cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners and educational organizations such as: Kazakhtelecom, Siemens, Kegoc, Waterservice, Beeline, KazMunayGas, Orion System is also provided on the university's website.

Students and teaching staff receive information about events taking place at the University, dormitories, access to the repository, the educational portal of AIS "PLATONUS".

The University has technical means to communicate with all interested parties: phones, fax, e-mail, WhatsApp chat, Google Business chat, 2GIS chat, feedback form on the website - <https://aues.edu.kz/ru/site/admissions>, social networks, additional information is available on the official pages of the university on social networks https://instagram.com/aues_university,

<https://youtube.com/c/AuesUniversity>,
<https://t.me/auesuni>.

<https://www.facebook.com/aues.university>,

The public and interested persons are informed about the results of the EP's activities through local media – the newspapers "Bilimdi el", "Evening Almaty", as well as the TV channel 24 Khabar. The published information is informational, image-based and explanatory in nature. On the website in the "About us" tab - "Media about us" (<https://aues.edu.kz/ru/site/smi-o-nas>) and "Rector in the Media" (<https://aues.edu.kz/ru/site/rectors-materials>) the prints of the published materials are given.

The analytical part

Experts note that the educational process is organized on the Platonus AIS platform. The rules for using the platform are available to students (<http://edu2.aues.kz/>).

The University has developed the AUPET Charter (https://aues.edu.kz/admin/web/uploads/personal-documents/1629863377_2B6Ebv.pdf).

Information about educational programs is available on the university's website and on the website of the Center for the Bologna Process and Academic Mobility. On the AUPET website <https://aues.kz> in the "Education" tab - "Institute of Energy and Green Technologies", "Institute of Automation and Information Technology" following the links, you can see information about the possibility of awarding qualifications at the end of the EP, compulsory and elective disciplines, catalogs of elective disciplines, databases of practices and employment, material and technical base of educational programs.

However, experts note that some information is, for example, information about partners, as on the University's website (<https://ic.aues.kz/ru/site/vuz>), and on information stands at the university is outdated, existing agreements, joint projects with some of these partners are missing. There is no information on the University's website about the curricula of the EP 4 cluster, information about teaching staff, and the university does not have a local regulatory document regulating the responsibility of persons for timely and reliable posting of information on the site in the relevant thematic sections.

Information about student life (<https://aues.edu.kz/ru/student-life/index>), academic mobility (<https://ic.aues.kz/ru>), Career Center (<https://aues.edu.kz/ru/career/index>), the best students (<https://aues.edu.kz/ru/students/best>), information about outstanding graduates (<https://aues.edu.kz/ru/graduate-new/our-graduates>) and others are publicly available on the university's website.

There is a rector's blog on the university's website (<https://aues.edu.kz/ru/site/blog-rektora>), where students could ask questions, but experts note that the page reflects only the rector's address and a list of frequently asked questions, there is no technical opportunity to ask a question on this page.

Decisions on complaints and proposals, depending on their scale, are made directly by the person indicated in the appeal, or are considered at a meeting of the department, the Council of the Institute, the CEM or the Academic Council of the university, as well as through the compliance service.

Based on the processing and analysis of information, specific decisions are made, action plans are developed to improve indicators, the results are drawn up in the form of reports and reviewed by the academic council of the university.

Information about the university's partners is published on the main page of the website in the "International Cooperation" tab (<https://ic.aues.kz/ru>). For international partners, information is provided by country with links to their websites, and scanned copies of contracts concluded with them are also attached.

Experts note the insufficient level of public awareness about the national development programs of the country and the system of higher and postgraduate education, in particular, there are no sections on the official website of the university devoted to describing the significance of the country's national programs, links to these programs, and there is also no information about

the university's involvement in solving national problems in the higher education system.

The educational programs "Thermal Power Engineering" are accredited by the agency for 5 years (<https://aues.edu.kz/en/site/rating>). The results of the AUPET rating and educational programs are presented on the AUPET website at the link <https://aues.edu.kz/ru/site/rating>.

AUPET publishes an independent auditor's report and consolidated financial statements annually on the website (<https://aues.edu.kz/ru/site/audit>).

Strengths/best practice

Not identified.

EEC recommendations for EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

– To develop a local normative act of the University (Regulations on the website) on the placement of information on the external website of the AUPET with an indication of those responsible for the content, reliability, timely updating of information. Due date: June 2024

– To develop requirements for the information about the PPP presented on the external website of the AUPET. Due date: May 2024

– To update the information on the external website of the University, on the information stands at the AUPET. Due date: August 2024

– To develop an action plan aimed at informing the public about the country's national programs, the higher education system, and the university's involvement in solving national problems in the higher education system. Due date: July 2024

EEC Recommendations for EP 6B07106 Nuclear Power Plants and installations

– To work out information about the further employment of graduates of this EP. Due date: June 30, 2024

The conclusions of the EEC:

According to the Public Awareness standard, 10 criteria have been disclosed, of which: 8 criteria have a satisfactory position, 2 criteria imply improvements.

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

6.3. The standard "Development and approval of an educational program"

Strengths/best practices

The content of the EP 6B06101 Computer science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes fully meet the established goals, including training results. The composition of the EP includes disciplines corresponding to advanced scientific and technological directions of development in the relevant fields.

6.4. Standart «Continuous monitoring and periodic evaluation of educational programs»

Strengths/best practices

The presence of its own advanced research in the field of teaching methods and evaluation of the results of mastering EP disciplines of the University, high-quality educational and methodological publications developed by the PTS of the University and meeting modern trends in the field of education.

(VIII) REVIEW OF THE QUALITY IMPROVEMENT RECOMMENDATIONS FOR EACH STANDARD

6.1. Standart «Educational program Management»

Recommendations for the EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

To develop and approve the University's development strategy for the period up to 2030.
Due date: until 06/01/2024

– Develop and approve a Quality Assurance Policy. Due date: until 06/01/2024

– To develop a local regulatory act regulating the functional responsibilities of the heads of the EP. Due date: until 30.05.2024

□ To undergo advanced training in the field of management in education for heads of departments, heads of EP. Due date: until 30.08.2024

Recommendations for the EP 6B06101 Computer Science, 6B06105 – Software Engineering

– to develop a plan to promote EP in the national and international markets, including, in addition to traditional methods, the following activities:

– creation and placement on national and international online educational platforms of massive open online courses to promote educational programs and scientific schools of the University;

– promotion of educational programs on social networks and on specialized international platforms in the “Internet” information and telecommunications network;

– expansion of the range of intellectual competitions at the University sites with the involvement of leading IT companies to attract foreign future applicants;

– expansion of cooperation with the best schools and lyceums in Almaty in the framework of creating a distributed network of sponsored IT classes (providing methodological assistance and master classes for teachers, involving schoolchildren in University project activities, etc.).

Due date: until 05/01/2024.

Recommendations for the EP 6B06101 Computer science

To analyze the relevance and relevance of the development of an English-language educational program for citizens of Kazakhstan, taking into account the costs of its implementation. The implementation period is October 2024.

Recommendations for the EP 6B07106 – Nuclear power plants and installations

- To analyze the demand for EP in the labor market in accordance with the needs of students, employers and society.

- To develop a risk system for the employment of graduates of this EP, taking into account the possibility of recruiting a contingent for the next 3 years.

The implementation period is June 2024.

6.2. Standart «Information management and reporting»

Recommendations for the EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

To fix the transition and implementation of the new digital AIS service "Platonus" in the University's LR. To develop instructions, regulations for working in Platonus for different categories of users, with responsibility for the reliability of the entered data and the timeliness of their updating, as well as a plan with deadlines for further implementation of the modules. Due date: until 30.06.2024.

6.3. Standart «Development and approval of the educational program»

Recommendations for the EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

–For the management of the EP 6B06101 Computer science, 6B06105 – Software engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes, it is necessary to include measures for the introduction of a dual training system in the development plans of each EP and begin their implementation. Due date: by the beginning of the 2024-2025 academic year.

To develop an action plan aimed at developing the use of project activities in the implementation of educational programs, for example, to form a pool of relevant projects for the University in the field of digitalization in order to implement them within the framework of EP 6B06101 Computer science, 6B06105 – Software engineering (theses, practice assignments) and attracting the potential of students, in particular for the development of VR-laboratories, simulation simulators for energy specialties. The deadline is by the beginning of the 2024-2025 academic year.

ECC recommendations for the EP 6B07106 – Nuclear power plants and installations

To revise the graduate model of EP 6B07106 "Nuclear power plants and installations" with the inclusion of a section on their further place of employment. Due date: until June 30, 2024

6.4. Standart «Continuous monitoring and periodic evaluation of educational programs»

Recommendations for the EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

To update the description of the EP on the external website of the University in terms of the changes made to them. To think over system mechanisms for timely notification of all participants in the educational process, as well as partner employers, about the changes being made to the educational program. Due date: until 30.05.2024

Recommendations for the EP 6B07106 «Nuclear power plants and installations»

- To consider possible changes in the EP, taking into account the implementation and timing of the construction of nuclear power plants in the Republic of Kazakhstan, the needs of society and the professional environment and the number of specialists in this EP Deadline: until 30.05.2024

6.5. Standart «Student-centered learning, teaching and performance assessment»

Recommendations for the EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

– To develop a local regulatory act regulating the distribution of students by specialization (in a competitive situation, taking into account their academic performance). Due date: July 2024

– To develop a local regulatory act (Rules for registration of students for disciplines and teachers) regulating the choice of disciplines and teachers at the university is regulated. Due date: July 2024

ECC recommendations for the EP 6B06101 Computer Science, 6B06105 – Software Engineering

The management of EP 6B06101 Computer science, 6B06105 – Software Engineering should carry out targeted work on the systematic organization of training students for professional certification, including recognition of the results of informal learning. Due date: August 2024

6.6. Standart «Students»

Recommendations for the EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

–To develop an action plan aimed at attracting foreign applicants, promoting the EP abroad. Due date: May 2024

–To develop an action plan aimed at improving the academic mobility of students. Due date: June 2024

Consider the possibility of introducing a digital service (personal account) for graduates to track their career growth and further involve them in the development of the University. Due date: November 2024.

Recommendations for the EP 6B06101 – Computer science, 6B06105 – Software Engineering

–To analyze the possibility of creating branded joint educational projects with leading IT companies in Kazakhstan, for example, with such as Platonus with a guarantee of employment of the best students in order to increase their competitiveness and attractiveness. Implementation period: until 30.08.2024.

To analyze the possibility and relevance of developing joint educational programs with leading foreign universities for double diplomas in EP 6B06101 Computer science, 6B06105 – Software Engineering in order to increase the attractiveness of OP for foreign students. Due date: until December 2024.

Recommendations for the EP 6B06101 Computer Science

To develop an action plan aimed at increasing the contingent for studying at EP 6B06101 – Computer science, including attracting foreign applicants. Due date: June 2024

Recommendations for the EP 6B07106 Nuclear power plants and installations

- To develop a Plan to attract foreign applicants to EP 6B07106 Nuclear power plants and installations, and a special program for adaptation and support of foreign students. Due date: until August 30, 2024

- To analyze the educational services market in order to determine the possibility of external and internal mobility of students of EP 6B07106 Nuclear power plants and installations. Due date: until August 30, 2024

- To develop a program to provide internship places for students and further employment of graduates of EP 6B07106 Nuclear power plants and installations. Due date: until June 30, 2024

6.7. Standart «Professor-teaching staff»

Recommendations for the EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

– To develop a program for the recruitment of PTS with a transparent competitive selection procedure (regarding the requirements for PTS) and taking into account the level of qualification of specialists. Due date: May 2024

– To ensure, on a systematic basis, the broad involvement of PTS in the development and discussion of the University's Development Strategy. Deadline: until the approval of the University's Development Strategy for the period up to 2030.

To develop a program for the development and further implementation of online learning (elements of online learning) in the educational process, providing for the creation of a University-based platform for the development of MOOC, simulation simulators, VR-applications, etc.; expansion of the University's partnership with global national and international online educational platforms to promote educational services and enhance the academic reputation of AUPET; systematic development of competencies of PTS in the field of using digital resources, methods of organizing and conducting online training. Due date: July 2024

6.8. Standart «Educational resources and student support systems»

Recommendations for the EP 6B06101 Computer Science, 6B06105 – Software Engineering, 6B07113 – Energy audit and energy management, 6B07106 – Nuclear power plants and installations, 6B07126 – Energy supply of oil pumping complexes

Develop a plan to expand the areas of stable operation of the Wi-Fi network at the University. Due date: May 2024

6B07106 Nuclear power plants and installations

- Provision of educational equipment and laboratory stands (or virtual ones) in the following disciplines: protection from ionizing radiation, nuclear power reactors. Due date: June 30, 2025

6.9. Standart «Informing the public»

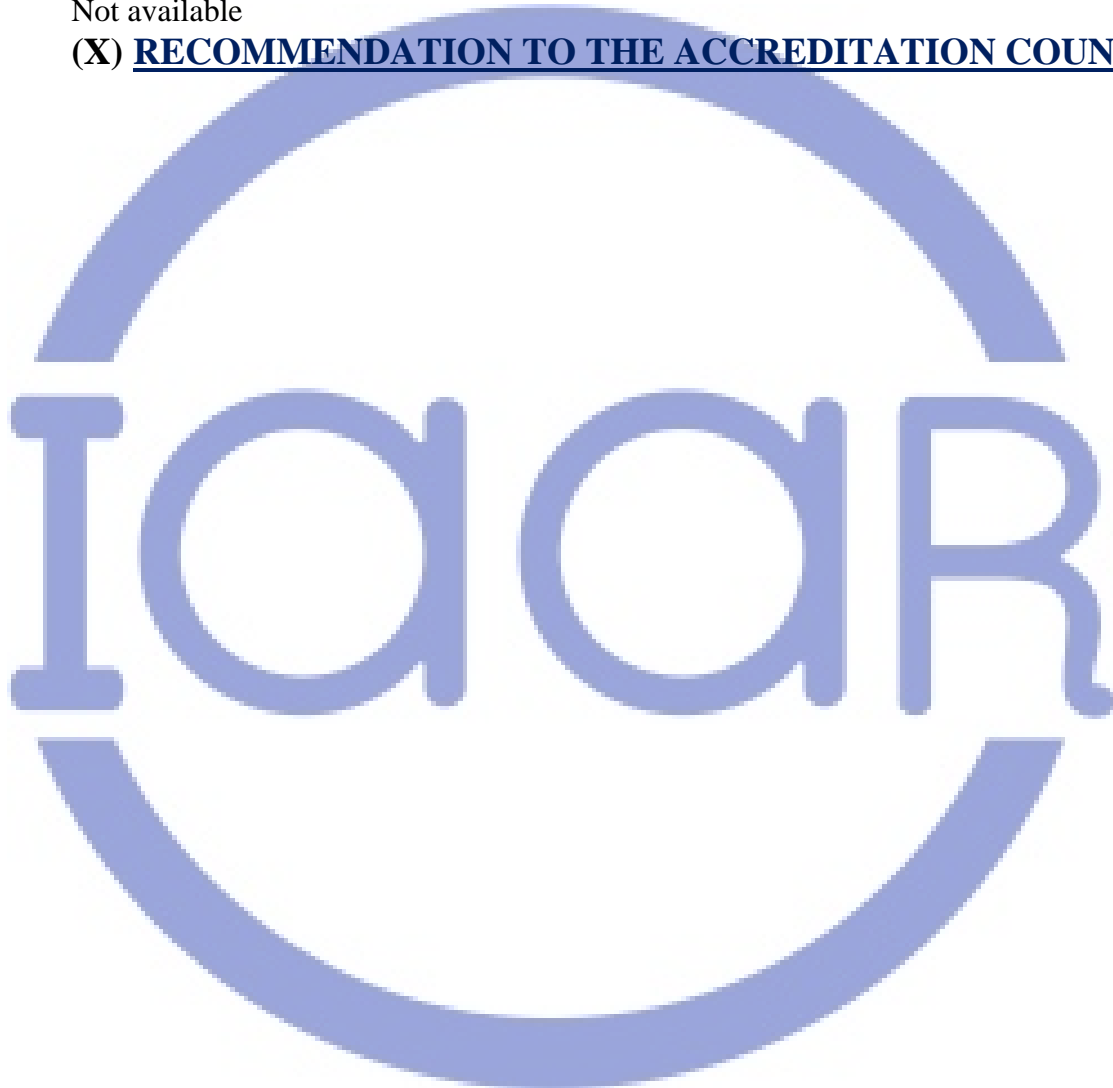
Recommendations for EP 6B07106 Nuclear power plants and installations

- To work out information about the further employment of graduates of this EP. Due date: until June 30, 2024

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

Not available

(X) RECOMMENDATION TO THE ACCREDITATION COUNCIL



Application 1. Evaluation table « SPECIALIZED PROFILE PARAMETERS (EX-ANTE)»

For EP 6B06101 Computer science, 6B06105 Software Engineering, 6B07113 Energy Audit and Energy management, 6B07126 Energy Supply of oil and gas pumping complexes

№ s/n	№ s/n	Evaluation criteria	The position of the educational organization			
			Str on g	Sat isf act ory	Su gge sts im pr ove me nt	Un sat isf act ory
Standart «Educational program Management»						
1	1.	The organization of higher and/or postgraduate education should have a published quality assurance policy that reflects the relationship between scientific research, teaching and learning			+	
2	2.	The organization of higher and (or) postgraduate education should demonstrate the development of a culture of quality assurance, including in the context of			+	
3	3.	Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including in the implementation of joint/double-degree education and academic mobility			+	
4	4.	The management of the EP demonstrates transparency in the development of a development plan for the EP, which contains a timeline for the start of implementation, based on an analysis of its functioning, the real positioning of the ED and the focus of its activities on meeting the needs of the state, employers, students and other stakeholders			+	
5	5.	The management of the EP demonstrates the existence of mechanisms for the formation and regular revision of the EP development plan and monitoring its implementation, evaluating the achievement of training goals, meeting the needs of students, employers and society, and making decisions aimed at continuous improvement of the operational		+		
6	6.	The management of the EP should involve representatives of groups of interested persons, including employers, students and teaching staff in the formation of a development plan for the EP		+		
7	7.	The management of the EP must demonstrate the individuality and uniqueness of the educational institution's development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education		+		
8	8.	The organization of higher and (or) postgraduate education must demonstrate a clear definition of those responsible for			+	

		business processes within the framework of the EP, an unambiguous distribution of staff responsibilities, and the differentiation of functions of collegial bodies				
9	9.	The management of the EP must provide evidence of the transparency of the educational program management system		+		
10	10.	The management of the EP must demonstrate the existence of an internal quality assurance system for the EP, including its design, management and monitoring, their improvement, and fact-based decision-making		+		
11	11.	The management of the EP should carry out risk management, including within the framework of the EP undergoing primary accreditation, as well as demonstrate a system of measures aimed at reducing the degree of risk.		+		
12	12.	The management of the EP should ensure the participation of representatives of employers, teaching staff, students and other interested persons in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program		+		
13	13.	The ED should demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals		+		
14	14.	The management of the EP must demonstrate evidence of readiness for openness and accessibility for students, teaching staff, employers and other interested persons		+		
15	15.	The management of the EP should be trained in educational management programs			+	
Total according to the standard			0	9	6	0
Standart «Information management and reporting»						
16	1.	The ED should demonstrate the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools and that it uses a variety of methods to collect and analyze information in the context of the EP		+		
17	2.	The management of the EP should demonstrate the existence of a mechanism for the systematic use of processed, adequate information to improve the internal quality assurance system		+		
18	3.	The management of the EP should demonstrate fact-based decision-making		+		
19	4.	A regular reporting system should be provided within the framework of the EP, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research		+		
20	5.	The ED should establish the frequency, forms and methods of evaluating the management of the EP, the activities of collegial bodies and structural divisions, senior management, and the implementation of scientific projects		+		
21	6.	The ED must demonstrate the definition of the procedure and ensuring the protection of information, including the identification of responsible persons for the reliability and		+		

		timeliness of information analysis and data provision				
22	7.	An important factor is the availability of mechanisms for involving students, employees and PTS in the processes of collecting and analyzing information, as well as making decisions based on them		+		
23	8.	The management of the EP should demonstrate the existence of a mechanism for communication with students, employees and other stakeholders, as well as conflict resolution mechanisms		+		
24	9.	The ED should demonstrate the existence of mechanisms for measuring the degree of satisfaction with the needs of teaching staff, staff and students within the framework of the EP		+		
25	10.	The ED should provide for an assessment of the effectiveness and efficiency of activities, including in the context of the EP		+		
		<i>The information intended for collection and analysis within the framework of the EP should take into account:</i>				
26	11.	key performance indicators		+		
27	12.	dynamics of the contingent of students in the context of forms and types		+		
28	13.	academic performance, student achievements and expulsion		+		
29	14.	satisfaction of students with the implementation of the EP and the quality of education at the university		+		
30	15.	accessibility of educational resources and support systems for students		+		
31	16.	The ED must confirm the implementation of procedures for processing personal data of students, employees and PTS on the basis of their documentary consent		+		
Total according to the standard			0	16	0	0
Standart «Development and approval of the educational program»						
32	1.	The ED should define and document the procedures for the development of the EP and their approval at the institutional level		+		
33	2.	The management of the EP must ensure that the content of the EP meets the established goals, including the expected learning outcomes	+			
34	3.	The management of the EP must demonstrate the existence of mechanisms for reviewing the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society		+		
35	4.	The management of the EP should ensure the availability of developed models of the graduate of the EP, describing the learning outcomes and personal qualities		+		
36	5.	The management of the EP must demonstrate the conduct of external examinations of the content of the EP and the planned results of its implementation		+		
37	6.	The qualifications awarded upon completion of the EP must be clearly defined and correspond to a certain level HCK and QF-EHEA		+		
38	7.	The management of the EP should determine the impact of disciplines and professional practices on the formation of learning outcomes		+		

30	8.	An important factor is the possibility of preparing students for professional certification		+		
40	9.	The management of the EP must provide evidence of the participation of students, PTS and other interested parties in the development of the EP, ensuring its quality		+		
41	10.	The management of the EP should ensure that the content of academic disciplines and planned results correspond to the level of education (bachelor's, master's, doctoral studies)		+		
42	11.	The structure of the EP should provide for various types of activities that ensure that students achieve the planned learning outcomes		+		
43	12.	An important factor is the correspondence of the content of the ED and the learning outcomes of the ED implemented by organizations of higher and (or) postgraduate education in the EHEA		+		
Total according to the standard			1	11	0	0
Standart «Continuous monitoring and periodic evaluation of educational programs»						
44	1.	The ED should identify mechanisms for monitoring and periodic evaluation of the EP to ensure that the goal is achieved and the needs of students and society are met, and show the focus of the mechanisms on continuous improvement of the EP		+		
		<i>Monitoring and periodic evaluation of the OP should include:</i>				
45	2.	the content of the program in the light of the latest scientific achievements in a particular discipline to ensure the relevance of the taught discipline		+		
46	3.	changes in the needs of society and the professional environment		+		
47	4.	workload, academic performance and graduation of students		+		
48	5.	effectiveness of student assessment procedures		+		
49	6.	expectations, needs and satisfaction of students with learning by EP		+		
50	7.	the educational environment and support services, and their compliance with the goals of the EP		+		
51	8.	The management of the EP should demonstrate a systematic approach to monitoring and periodic assessment of the quality of the EP		+		
52	9.	Oh, the management of the EP should define a mechanism for informing all stakeholders about any planned or undertaken actions regarding the EP		+		
53	10.	All changes made to the EP must be published			+	
Total according to the standard			0	9	1	0
Standart «Student-centered learning, teaching and assessment of academic performance»						
54	1.	The management of the EP should ensure respect and attention to different groups of students and their needs, and provide them with flexible learning paths		+		
55	2.	The management of the EP should provide for the use of various forms and methods of teaching and learning		+		
56	3.	An important factor is the availability of own research in the field of teaching methods of EP.	+			

57	4.	The management of the EP should demonstrate the availability of feedback mechanisms for the use of various teaching methods and evaluation of learning outcomes		+		
58	5.	The management of the EP should demonstrate the existence of mechanisms to support the autonomy of students with simultaneous guidance and		+		
59	6.	The management of the EP must demonstrate the existence of a procedure for responding to student complaints		+		
60	7.	The ED should ensure consistency, transparency and objectivity of the learning outcomes assessment mechanism for each EP, including the appeal		+		
61	8.	The ED should ensure that the procedures for evaluating the learning outcomes of students of the EP comply with the planned results and goals of the program, and publish criteria and evaluation methods in advance		+		
62	9.	The ED should define mechanisms to ensure that each graduate of the EP achieves learning outcomes and ensures the completeness of their formation		+		
63	10.	Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area		+		
Total according to the standard			1	9	0	0
Standart «Students»						
64	1.	The ED must demonstrate the existence of a policy for the formation of a contingent of students in the context of the educational institution, ensure transparency and publication of its procedures governing the life cycle of students (from admission to completion)		+		
		<i>The management of the EP should determine the order of formation of the contingent of students based on:</i>				
65	2.	minimum requirements for applicants		+		
66	3.	the maximum size of the group during seminars, practical, laboratory and studio classes		+		
67	4.	forecasting the number of government grants		+		
68	5.	analysis of available material, technical, information resources, human resources		+		
69	6.	analysis of potential social conditions for students, including the provision of places in the dormitory		+		
70	7.	The management of the EP should demonstrate its readiness to conduct special adaptation and support programs for newly enrolled and foreign students		+		
71	8.	The ED must demonstrate compliance of its actions with the Lisbon Recognition Convention, the existence of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education		+		
72	9.	The ED should cooperate with other educational organizations and national centers of the "European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers" ENIC/NARIC in order to		+		

73	10.	The ED should provide an opportunity for external and internal mobility of students of the educational institution, as well as readiness to assist them in obtaining external grants for training		+		
74	11.	The management of the EP should demonstrate its readiness to provide students with internship places, promote the employment of graduates, and maintain communication with them		+		
75	12.	The ED should provide for the possibility of providing graduates of the EP with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion		+		
Total according to the standard			0	12	0	0
Standart «Professor-teaching staff»						
76	1.	The ED should have an objective and transparent personnel policy, including in the context of the EP, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff		+		
77	2.	The ED must demonstrate that the staff potential of the teaching staff corresponds to the specifics of the EP		+		
78	3.	The management of the EP must demonstrate an awareness of responsibility for its employees and ensure favorable working conditions for them		+		
79	4.	The management of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning		+		
80	5.	The ED should determine the contribution of the PTS of the EP to the implementation of the development strategy of the LLC, and other strategic documents			+	
81	6.	The ED should provide opportunities for career growth and professional development of PTS		+		
82	7.	The management of the EP should demonstrate its readiness to involve practitioners of relevant sectors of the economy in teaching		+		
83	8.	The ED should demonstrate the motivation for the professional and personal development of the teachers of the EP, including encouragement for the integration of scientific activity and education, the use of innovative teaching methods		+		
84	9.	An important factor is the willingness to develop academic mobility within the framework of the EP, to attract the best foreign and domestic teachers		+		
Total according to the standard			0	8	1	0
Standart «Educational resources and student support systems»						
85	1.	The ED must ensure that there are sufficient educational resources and student support services to ensure that the goal is achieved.		+		
86	2.	The ED must demonstrate the sufficiency of material and technical resources and infrastructure, taking into account the needs of various groups of students in the context of educational institutions (adults, working, foreign students, as well as		+		

		students with disabilities)				
87	3.	The management of the EP should demonstrate the availability of support procedures for various groups of students, including information and counseling		+		
		<i>The management of the EP must demonstrate compliance of information resources with the specifics of the EP, including:</i>				
88	4.	technological support for students and PTS (for example, online training, modeling, databases, data analysis programs)		+		
89	5.	library resources, including a fund of educational, methodological and scientific literature on general education, basic and profile disciplines on paper and electronic media, periodicals, access to scientific databases		+		
90	6.	examination of SRW, graduation papers, dissertations for plagiarism		+		
91	7.	access to educational Internet-resources				
92	8.	the functioning of WI-FI in the territory of the educational organization		+		
93	9.	The ED demonstrates planning for the provision of educational equipment and software similar to those used in the relevant sectors of the economy		+		
Total according to the standard			0	9	0	0
Standard "Informing the public"						
		<i>The ED must publish reliable, objective, up-to-date information about the educational program and its specifics, which should include:</i>				
94	1.	expected learning outcomes of the implemented educational program		+		
95	2.	qualifications and/or qualifications that will be awarded upon completion of the educational program		+		
96	3.	teaching and learning approaches, as well as the assessment system (procedures, methods and forms)		+		
97	4.	information about passing scores and educational opportunities provided to students		+		
98	5.	information about graduate employment opportunities		+		
99	6.	The management of the EP should provide for a variety of ways to disseminate information, including the media, information networks to inform the general public and interested parties		+		
100	7.	Public awareness should include support and clarification of the national development programs of the country and the system of higher and postgraduate education			+	
101	8.	The ED must demonstrate the reflection on the web resource of information characterizing it in general and in the context of educational programs		+		
102	9.	An important factor is the availability of adequate and objective information about the PTS of the EP		+		
103	10.	An important factor is to inform the public about cooperation and interaction with partners within the framework of the EP		+		
Total according to the standard			0	8	2	0

	In total	2	91	10	0
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For EP 6B07106 Nuclear power plants and installations

№ s/n	№ s/n	Evaluation criteria	The position of the educational organization			
			Str on g	Sat isf act ory	Su gge sts im pr ove me nt	Un sat isf act ory
Standard «Educational program Management»						
1	16.	The organization of higher and/or postgraduate education should have a published quality assurance policy that reflects the relationship between scientific research, teaching and learning			+	
2	17.	The organization of higher and (or) postgraduate EP should demonstrate the development of a culture of quality assurance, including in the context of			+	
3	18.	Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including in the implementation of joint/double degree education and academic mobility			+	
4	19.	The management of the EP demonstrates transparency in the development of a development plan for the EP, which contains a timeline for the start of implementation, based on an analysis of its functioning, the real positioning of the ED and the focus of its activities on meeting the needs of the state, employers, students and other stakeholders			+	
5	20.	The management of the EP demonstrates the existence of mechanisms for the formation and regular revision of the development plan of the EP and monitoring its implementation, evaluating the achievement of learning goals, meeting the needs of students, employers and society, and making decisions aimed at continuous improvement of the EP		+		
6	21.	The management of the EP should involve representatives of groups of interested persons, including employers, students and PTS in the formation of a development plan for the EP		+		
7	22.	The management of the EP must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education		+		
8	23.	The organization of higher and (or) postgraduate education must demonstrate a clear definition of those responsible for business processes within the framework of the EP, an unambiguous distribution of staff responsibilities, and the differentiation of functions of collegial bodies			+	
9	24.	The management of the EP must provide evidence of the transparency of the educational program management system		+		

10	25.	The management of the EP must demonstrate the existence of an internal quality assurance system for the EP, including its design, management and monitoring, their improvement, and fact-based decision-making		+		
11	26.	The management of the EP should carry out risk management, including within the framework of the EP undergoing primary accreditation, as well as demonstrate a system of measures aimed at reducing the degree of risk.			+	
12	27.	The management of the EP should ensure the participation of representatives of employers, teaching staff, students and other interested persons in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program		+		
13	28.	The ED should demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals		+		
14	29.	The management of the EP must demonstrate evidence of readiness for openness and accessibility for students, PTS, employers and other interested persons		+		
15	30.	The management of the EP should be trained in educational management programs			+	
Total according to the standard			0	8	7	0
Standart «Information management and reporting»						
16	10.	The ED should demonstrate the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools and that it uses a variety of methods to collect and analyze information in the context of the EP		+		
17	11.	The management of the EP should demonstrate the existence of a mechanism for the systematic use of processed, adequate information to improve the internal quality assurance system		+		
18	12.	The management of the EP should demonstrate fact-based decision-making		+		
19	13.	A regular reporting system should be provided within the framework of the EP, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research		+		
20	14.	The ED should establish the frequency, forms and methods of evaluating the management of the EP, the activities of collegial bodies and structural units, senior management, and the implementation of scientific projects		+		
21	15.	The ED must demonstrate the definition of the procedure and ensuring the protection of information, including the identification of responsible persons for the reliability and timeliness of information analysis and data provision		+		
22	16.	An important factor is the availability of mechanisms for involving students, employees and PTS in the processes of collecting and analyzing information, as well as making decisions based on them		+		

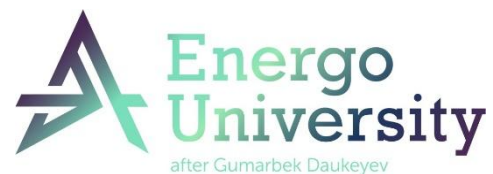
23	17.	The management of the EP should demonstrate the existence of a mechanism for communication with students, employees and other stakeholders, as well as conflict resolution mechanisms		+		
24	18.	The ED should demonstrate the existence of mechanisms for measuring the degree of satisfaction with the needs of PTS, staff and students within the framework of the EP		+		
25	10.	The ED should provide for an assessment of the effectiveness and efficiency of activities, including in the context of the EP		+		
		<i>The information intended for collection and analysis within the framework of the EP should take into account:</i>				
26	11.	key performance indicators		+		
27	12.	dynamics of the contingent of students in the context of forms and types		+		
28	13.	academic performance, student achievements and expulsion		+		
29	14.	students' satisfaction with the implementation of the EP and the quality of education at the university		+		
30	15.	accessibility of educational resources and support systems for students		+		
31	16.	The ED must confirm the implementation of procedures for processing personal data of students, employees and PTS on the basis of their documentary consent		+		
Total according to the standard			0	16	0	0
Standard «Development and approval of the educational program»						
32	13.	The ED should define and document the procedures for the development of the EP and their approval at the institutional level		+		
33	14.	The management of the EP should ensure that the content of the EP meets the established goals, including the expected learning outcomes	+			
34	15.	The management of the EP must demonstrate the existence of mechanisms for reviewing the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society		+		
35	16.	The management of the EP should ensure the availability of developed models of the graduate of the EP, describing the learning outcomes and personal qualities			+	
36	17.	The management of the EP must demonstrate the conduct of external examinations of the content of the EP and the planned results of its implementation		+		
37	18.	The qualifications awarded upon completion of the EP must be clearly defined and correspond to a certain level HCK and QF-EHEA		+		
38	19.	The management of the EP should determine the impact of disciplines and professional practices on the formation of learning outcomes		+		
30	20.	An important factor is the possibility of training students for professional certification		+		
40	21.	The management of the EP must provide evidence of the participation of students, PTS and other interested parties in the development of the EP, ensuring its quality		+		

41	22.	The management of the EP should ensure that the content of academic disciplines and planned results correspond to the level of education (bachelor's, master's, doctoral studies)		+		
42	23.	The structure of the EP should provide for various types of activities that ensure that students achieve the planned learning outcomes		+		
43	24.	An important factor is the correspondence of the content of the EP and the learning outcomes of the EP implemented by organizations of higher and (or) postgraduate education in the EHEA		+		
Total according to the standard			1	10	1	0
Standard «Continuous monitoring and periodic evaluation of educational programs»						
44	11.	The ED should identify mechanisms for monitoring and periodic evaluation of the EP to ensure that the goal is achieved and the needs of students and society are met, and show the focus of the mechanisms on continuous improvement of the EP		+		
		<i>Monitoring and periodic evaluation of the EP should include:</i>				
45	12.	the content of the program in the light of the latest scientific achievements in a particular discipline to ensure the relevance of the taught discipline		+		
46	13.	changes in the needs of society and the professional environment			+	
47	14.	workload, academic performance and graduation of students		+		
48	15.	effectiveness of student assessment procedures		+		
49	16.	expectations, needs and satisfaction of students with learning in the EP		+		
50	17.	the educational environment and support services, and their compliance with the goals of the EP		+		
51	18.	The management of the EP should demonstrate a systematic approach to monitoring and periodic assessment of the quality of the EP		+		
52	19.	Oh, the management of the EP should define a mechanism for informing all stakeholders about any planned or undertaken actions regarding the EP		+		
53	20.	All changes made to the EP must be published			+	
Total according to the standard			0	8	2	0
Standart «Student-centered learning, teaching and performance assessment»						
54	11.	The management of the EP should ensure respect and attention to different groups of students and their needs, and provide them with flexible learning paths		+		
55	12.	The management of the EP should provide for the use of various forms and methods of teaching and learning		+		
56	13.	An important factor is the availability of own research in the field of teaching methods of EP.	+			
57	14.	The management of the EP should demonstrate the availability of feedback mechanisms for the use of various teaching methods and evaluation of learning outcomes		+		
58	15.	The management of the EP should demonstrate the existence of mechanisms to support the autonomy of students with		+		

		simultaneous guidance and assistance from the teacher				
59	16.	The management of the EP must demonstrate the existence of a procedure for responding to student complaints		+		
60	17.	The ED should ensure consistency, transparency and objectivity of the learning outcomes assessment mechanism for each EP, including the appeal		+		
61	18.	The ED should ensure that the procedures for evaluating the learning outcomes of students of the EP comply with the planned results and goals of the program, and publish criteria and evaluation methods in advance		+		
62	19.	The ED should define mechanisms to ensure that each graduate of the EP achieves learning outcomes and ensures the completeness of their formation		+		
63	20.	Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area		+		
Total according to the standard			1	9	0	0
Standart «Students»						
64	13.	The ED must demonstrate the existence of a policy for the formation of a contingent of students in the context of the EP, ensure transparency and publication of its procedures governing the life cycle of students (from admission to completion)		+		
		<i>The management of the EP should determine the order of formation of the contingent of students based on:</i>				
65	14.	minimum requirements for applicants		+		
66	15.	the maximum size of the group during seminars, practical, laboratory and studio classes		+		
67	16.	forecasting the number of government grants		+		
68	17.	analysis of available material, technical, information resources, human resources		+		
69	18.	analysis of potential social conditions for students, including the provision of places in the dormitory		+		
70	19.	The management of the EP should demonstrate its readiness to conduct special adaptation and support programs for newly enrolled and foreign students			+	
71	20.	The ED must demonstrate compliance of its actions with the Lisbon Recognition Convention, the existence of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education		+		
72	21.	The ED should cooperate with other educational organizations and national centers of the "European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers" ENIC/NARIC in order to ensure comparable recognition of qualifications		+		
73	22.	The ED should provide an opportunity for external and internal mobility of students of the EP, as well as readiness to assist			+	

		them in obtaining external grants for training				
74	23.	The management of the EP should demonstrate its readiness to provide students with internship places, promote the employment of graduates, and maintain communication with them			+	
75	24.	The ED should provide for the possibility of providing graduates of the educational institution with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion		+		
Total according to the standard			0	9	3	0
Standart «Professor-teaching staff»						
76	10.	The ED should have an objective and transparent personnel policy, including in the context of the EP, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff		+		
77	11.	The ED must demonstrate the compliance of the PTS potential of the teaching staff with the specifics of the EP		+		
78	12.	The management of the EP must demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them		+		
79	13.	The management of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning		+		
80	14.	The ED should determine the contribution of the PTS of the EP to the implementation of the development strategy of the LLC, and other strategic documents			+	
81	15.	The ED should provide opportunities for career growth and professional development of PTS		+		
82	16.	The management of the EP should demonstrate its readiness to involve practitioners of relevant sectors of the economy in teaching		+		
83	17.	The ED should demonstrate the motivation for the professional and personal development of the teachers of the EP, including encouragement for the integration of scientific activity and education, the use of innovative teaching methods		+		
84	18.	An important factor is the willingness to develop academic mobility within the framework of the EP, to attract the best foreign and domestic teachers		+		
Total according to the standard			0	8	1	0
Standart «Educational resources and student support systems»						
85	1.	The ED must ensure a sufficient number of educational resources and student support services to ensure that the goal of the EP is achieved		+		
86	2.	The ED must demonstrate the sufficiency of material and technical resources and infrastructure, taking into account the needs of various groups of students in the context of EP (adults, working, foreign students, as well as students with disabilities)		+		
87	3.	The management of the EP should demonstrate the availability of support procedures for various groups of students, including		+		

		information and counseling				
		<i>The management of the EP must demonstrate compliance of information resources with the specifics of the EP, including:</i>				
88	4.	technological support for students and PTS (for example, online training, modeling, databases, data analysis programs)		+		
89	5.	library resources, including a fund of educational, methodological and scientific literature on general education, basic and profile disciplines on paper and electronic media, periodicals, access to scientific databases		+		
90	6.	examination of SRW results, graduation papers, dissertations for plagiarism		+		
91	7.	access to educational Internet resources				
92	8.	the functioning of WI-FI in the territory of the educational organization		+		
93	9.	The ED demonstrates planning for the provision of EP equipment and software similar to those used in the relevant sectors of the economy			+	
Total according to the standard			0	8	1	0
Standart «Informing the public»						
		<i>The ED must publish reliable, objective, up-to-date information about the educational program and its specifics, which should include:</i>				
94	1.	expected learning outcomes of the implemented educational program		+		
95	2.	qualifications and/or qualifications that will be awarded upon completion of the educational program		+		
96	3.	teaching and learning approaches, as well as the assessment system (procedures, methods and forms)		+		
97	4.	information about passing scores and educational opportunities provided to students		+		
98	5.	information about graduate employment opportunities			+	
99	6.	The management of the EP should provide for a variety of ways to disseminate information, including the media, information networks to inform the general public and interested parties		+		
100	7.	Public awareness should include support and clarification of the national development programs of the country and the system of higher and postgraduate education			+	
101	8.	The ED must demonstrate the reflection on the web resource of information characterizing it in general and in the context of educational programs		+		
102	9.	An important factor is the availability of adequate and objective information about the PTS of the EP		+		
103	10.	An important factor is to inform the public about cooperation and interaction with partners within the framework of the EP		+		
Total according to the standard			0	7	3	0
TOTAL			2	91	18	0

Application 2. THE PROGRAM OF THE VISIT TO THE EDUCATIONAL ORGANIZATION**AGREED**

Rector of the NJSC «Almaty University of
Power Engineering and
Telecommunication named after
G.Daukeyev»

_____ Syzdykov M.K.
«__» _____ 2024

APPROVE

General manager of the NI «Independent agency for
accreditation and rating»

_____ Zhumagulova A.B.
«__» _____ 2024

PROGRAM
VISIT OF THE EXTERNAL EXPERT COMMISSION INDEPENDENT AGENCY FOR ACCREDITATION AND RATING (IAAR)
IN THE NJSC "ALMATY UNIVERSITY OF POWER ENGINEERING AND TELECOMMUNICATION"

STAGE 2 SPECIALIZED ACCREDITATION

Date of the visit: March 14-16, 2024

Date and time	ECC's work with target groups	Position and Surname, First name, Patronymic of the target group participants	The form of communication
<i>March 11, 2024</i>			
15.00-16.00 <i>According to the time of Astana</i>	Preliminary meeting of the ECC	<i>External IAAR experts</i>	Connect to the Zoom Conference: https://us02web.zoom.us/j/6813032588 Conference ID:681 303 2588
<i>March 13, 2024</i>			
<i>According to the schedule during the day</i>	Arrival of the members of the External Expert Commission		

20.00	Dinner	<i>External IAAR experts</i>	
Day 1: March 14, 2024			
08.10-09.00	Transfer from the hotel to the University	<i>Coordinator of the University – Mankhanova Azhar Yerlanovna (Director of the Department of Academic Affairs) 87772983128</i>	
09.00-09.15	Allocation of responsibility of experts, solution of organizational issues	<i>External IAAR experts</i>	Connect to the Zoom Conference: https://us02web.zoom.us/j/6813032588 Conference ID:681 303 2588
09.15-09.45	Interview with the Rector	Rector- Syzdykov Murat Kanatovich	Auditorium # 213, of the building A Connect to the Zoom Conference: https://us02web.zoom.us/j/6813032588 Conference ID: 681 303 2588
09.45-10.00	Technical break		
10.00-10.40	Interviews with Vice-rectors	Vice-Rector for Academic Affairs – Sarsenova Aigul Saparbekovna, Vice-Rector for Social and Educational Work - Kadylbekov Yermek Kamalbekuly, Head of the Rector's Office– Yessimzhanov Zhanat Kuanyshevich	Auditorium # 213, of the building A Connect to the Zoom Conference: https://us02web.zoom.us/j/6813032588 Conference ID: 681 303 2588
10.40-10.50	Technical break		
10.50-11.30	Interviews with heads of structural divisions of ED	Digital Officer – Urazakov Margulan Maksutovich, Head of the Registrar's office – Neledva Vera Vasilyevna, Financial Director - Rakhmetova Gulzia Salatovna, Director of the Department of Academic Affairs - Mankhanova Azhar Yerlanovna, Head of the Academic Counseling Center – Kudaibergen Zhuldyz Malikovna,	Auditorium # 213, of the building A Connect to the Zoom Conference: https://us02web.zoom.us/j/6813032588 Conference ID: 681 303 2588

		Director of the Department of Youth Policy – Kabi Elikbay Kasenkhanuly, Chief Librarian - Natalya Stepanovna Netesova, Executive Secretary of the Admissions Committee- Almuratova Kamshat Bimuratovna.	
11.30-11.45	Exchange of views of the members of the external expert commission		Exchange of views of the members of the external expert commission
11.45-12.30	Interviews with heads of departments and heads of the MEP	<p>Director of the Institute of Automation and Information Technology - Fedorenko Igor Anatolyevich, Director of the Institute of Energy and Green Technologies - Begimbetova Ainur Serikovna, Department of Automation and Control - Abzhanova Laula Kosyganovna, Department of IT Engineering - Tukenova Leila Muratbekovna, Department of Cybersecurity - Enlik Begimbayeva, Department of Electric Power Engineering - Amitov Ernar Tanibergenovich, Department of Thermal Power Engineering - Korobkov Maxim Sergeevich, Department of Renewable and Alternative Energy Sources - Shynybay Zhandos Sapargalievich,</p> <p><i>Responsible software developers EP:</i></p> <p>Thermal power engineering – Energy supply of agriculture – Sagyndikova Aigul Zhursinovna, Software engineering - Utegenova Anara Urantaevna Energy audit and energy management – Nuclear power plants and installations – Energy supply of oil and gas pumping complexes -,</p>	Interviews with heads of departments and heads of the MEP

		Automation and control - Sabina N.V., Khan S.G., Toybaeva Sh.D., Zhusupbekov S.S., Sagindikova A.Zh., Information security systems - Elena G. Satimova	
12.30-13.00	The work of the ECC	<i>External IAAR experts</i>	The work of the ECC
13.00-14.00	Lunch		Lunch
14.00-14.15	Exchange of views of the members of the external expert commission		Exchange of views of the members of the external expert commission
14.15-15.00	Interview with the PTS of the MEP	<i>Application 1</i>	Interview with the PTS of the MEP
15.00-15.15	Technical break		
15.00-16.00	Survey of teaching staff (in parallel)	<i>Application 1</i>	Survey of teaching staff (in parallel)
15.15-16.50	Scheduled class attendance (Application: links to classes)	<i>External IAAR experts</i> <i>Application 4</i>	Scheduled class attendance (Application: links to classes)
16.00-17.00	Student survey (in parallel)	<i>Application 2</i>	Student survey (in parallel)
16.50-17.30	Visual inspection of the ED and the material, technical, educational and laboratory base	<i>Itinerary</i> <i>Application 3</i>	Visual inspection of the ED and the material, technical, educational and laboratory base
17.30-19.00	The work of the ECC discussion of the results of the first day	<i>External IAAR experts</i>	The work of the ECC discussion of the results of the first day

			Unofficial Translation
19.00-20.00	Dinner		Dinner
<i>Day 2: March 15, 2024</i>			
08.10-09.00	Transfer from the hotel to the University		Transfer from the hotel to the University
09.00-09.15	The work of the ECC		The work of the ECC
09.15-10.50	Interviews with MEP students	<i>Application 2</i>	Interviews with MEP students
10.50-11.30	Meeting with stakeholders (representatives of practice bases and employers)	<i>Application 5</i>	Meeting with stakeholders (representatives of practice bases and employers)
11.30-11.40	Technical break		Technical break
11.40-13.00	Working with documents (documents must be uploaded to the cloud in advance)		Working with documents (documents must be uploaded to the cloud in advance)
13.00-14.00	Lunch		Lunch
14.00-14.15	Technical break		Technical break
14.15-15.00	Interviews with graduates of the MEP	<i>Application 6</i>	Interviews with graduates of the MEP

15.00-17.00	Selective visits to EP practice bases	<i>Application 7</i>	Selective visits to EP practice bases
17.00-17.15	Technical break		Technical break
17.00-18.00	The work of the EEC, discussion of the results of the second day and profile parameters (recording is underway)		The work of the EEC, discussion of the results of the second day and profile parameters (recording is underway)
18.30-19.30	Dinner		Dinner
Day 3: March 16, 2024			
08.10-09.00	Transfer from the hotel to the University		Transfer from the hotel to the University
09.00-10.00	The work of the ECC is the development and discussion of recommendations (a record is being kept)	<i>External IAAR experts</i>	The work of the ECC is the development and discussion of recommendations (a record is being kept)
10.00-10.20	Technical break		
10.20-12.30	The work of the ECC is discussed, decisions are made by voting (recording is being conducted)	<i>External IAAR experts</i>	The work of the ECC is discussed, decisions are made by voting (recording is being conducted)
12.30-13.00	The final meeting of the ECC with the leadership of the university		The final meeting of the ECC with the leadership of the university

13.00-14.00	Lunch		Lunch
14.00-15.00	The work of the ECC, Discussion of the results of the quality assessment	<i>External IAAR experts</i>	The work of the ECC, Discussion of the results of the quality assessment
15.00-15.15	Technical break		
15.15-18.00	The work of the ECC, Discussion of the results of the quality assessment	<i>External IAAR experts</i>	The work of the ECC, Discussion of the results of the quality assessment



Application 3. THE RESULTS OF THE TEACHER SURVEY**The PTS questionnaire****The results of an anonymous survey of the PTS Almaty University of Power Engineering and Telecommunication named after Gumarbek Daukeev**

1. Total number of questionnaires: 31

2. Which EP do you serve:

6B07103 Thermal Power Engineering	10 peop	32,3%
7M07102 Thermal Power Engineering	3 peop	9,7%
8D07102 Thermal Power Engineering	1 peop	3,2%
6B06105 Software Engineering	2 peop	6,5%
6B07106 Nuclear power plants and installations	1 peop	3,2%
6B07113 Energy audit and energy management	3 peop	9,7%
6B07126 Energy supply of oil and gas pumping complexes	1 peop	3,2%
6B07108 Automation and management	9 peop	29%
7M07105 Automation and management	1 peop	3,2%

3. Position

Professor	4 peop	12,9%
Docent	13 peop	41,9%
Senior Teacher (senior teacher)	9 peop	29%
Teacher (lecturer)	4 peop	12,9%
Head of the Department	1 peop	3,2
Acting professor		
Docent		

4. Academic degree, academic title

Honored Worker of the Republic of Kazakhstan	0 peop	0%
Doctor of Science	1 peop	3,2%
Candidate of science	7 peop	22,6%
Master's degree	11 peop	35,5%
PhD	8 peop	25,8%
Professor	0 peop	0%
Docent	3 peop	9,7%
No	4 peop	12,9%

5. Work experience

Less than 1 year		
1 year – 5 years	8	25,8%
Over 5 years	23 peop	74,2%

№	Questions	Very well	Well	Relatively bad	Bad	Very poor	Didn't answer
6	To what extent does the content of the educational program meet your scientific and professional interests and needs?	20 peop (64,5%)	11 peop (35,5%)	0 peop (0%)	0 peop (0%)	0 peop (0%)	-
7	How do you assess the opportunities provided by the University for the professional development of PTS	13 peop (41,9%)	16 peop (51,6%)	2 peop (6,5%)	0 peop (0%)	0 peop (0%)	-

8	How do you assess the opportunities provided by the University for the career growth of PTS	12 peop (38,7%)	18 peop (58,1%)	1 peop (3,2%)	0 peop (0%)	0 peop (0%)	-
9	How do you assess the degree of academic freedom of the faculty	12 peop (38,7%)	17 peop (54,8%)	2 peop (6,5%)	0 peop (0%)	0 peop (0%)	-
	To what extent can teachers use their own						
10	• Strategies	16 peop (51,6%)	14 peop (45,2%)	1 peop (3,2%)	0 peop (0%)	0 peop (0%)	-
11	• Methods	20 peop (64,5%)	10 peop (32,3%)	1 peop (3,2%)	0 peop (0%)	0 peop (0%)	-
12	• Innovations in the learning process	13 peop (41,9%)	15 peop (48,4%)	3 peop (9,7%)	0 peop (0%)	0 peop (0%)	-
13	How do you assess the work on the organization of medical care and disease prevention at the university?	10 peop (32,3%)	19 peop (61,3%)	2 peop (6,5%)	0 peop (0%)	0 peop (0%)	-
14	How is the management of the educational institution paying attention to the content of the educational program?	11 peop (35,5%)	20 peop (64,5%)	0 peop (0%)	0 peop (0%)	0 peop (0%)	-
15	How do you assess the sufficiency and accessibility of the necessary scientific and educational literature in the library?	15 peop (48,4%)	14 peop (45,2%)	2 peop (6,5%)	0 peop (0%)	0 peop (0%)	-
16	Do you assess the level of conditions created that take into account the needs of different groups of students?	9 peop (29%)	20 peop (64,5%)	1 peop (3,2%)	1 peop (3,2%)	0 peop (0%)	-
	Evaluate the accessibility of the manual						
17	• For students	13 peop (41,9 %)	16 peop (51,6%)	2 peop (6,5%)	0 peop (0%)	0peop (0%)	-
18	• For teachers	10 peop (32,3%)	17 peop (54,8%)	4 peop (12,9%)	0 peop (0%)	0 peop (0%)	-
19	Evaluate the involvement of the PTS in the process of making managerial and strategic decisions	6 peop (19,4%)	17 peop (54,8%)	8 peop (25,8%)	0 peop (0%)	0 peop (0%)	-
20	How is the innovation activity of PTS encouraged?	8 peop (25,8%)	18 peop (58,1%)	5 peop (16,1%)	0 peop (0%)	0 peop (0%)	-
21	Evaluate the level of feedback between the PTS and the management	9 peop (29%)	18 peop (58,1%)	4 peop (12,9%)	0 peop (0%)	0 peop (0%)	-
22	What is the level of stimulation and involvement of young professionals in the educational process?	11 peop (35,5%)	17 peop (54,8%)	3 peop (9,7%)	0 peop (0%)	0 peop (0%)	-
23	Evaluate the created opportunities for professional and personal growth for each teacher and employee	11 peop (35,5%)	18 peop (58,1%)	2 peop (6,5%)	0 peop (0%)	0 peop (0%)	-
24	Assess the adequacy of recognition of the potential and abilities of teachers	11 peop (35,5%)	15 peop (48,4%)	5 peop (16,1%)	0 peop (0%)	0 peop (0%)	-
	How is the work done						
25	• Academic mobility	9 peop (29%)	20 peop (64,5%)	2 peop (6,5%)	0 peop (0%)	0 peop (0%)	-
26	• Professional development of PTS	11 peop (35,5%)	17 peop (54,8%)	3 peop (9,7%)	0 peop (0%)	0 peop (0%)	-
	Appreciate the support of the university and its management						
27	• Scientific research initiatives of the PTS	9 peop (29%)	18 peop (58,1%)	4 peop (12,9%)	0 peop (08%)	0 peop (0%)	-
28	• Development of new educational programs/academic disciplines/methods	15 peop (48,4%)	16 peop (51,6%)	0 peop (0%)	0 peop (0%)	0 peop (0%)	-
	Assess the level of faculty's ability to combine PTS						

29	• With scientific research	10 peop (32,3%)	15 peop (48,4%)	5 peop (16,1%)	1 peop (3,5%)	0 peop (0%)	-
30	• With practical activities	10 peop (32,3%)	16 peop (51,6%)	4 peop (12,9%)	1 peop (3,2%)	0 peop (0%)	-
31	Assess how well the students' knowledge obtained at this university corresponds to the realities of the requirements of the modern labor market	13 peop (41,9%)	18 peop (58,1%)	0 peop (0%)	0 peop (0%)	0 peop (0%)	-
32	How does the management and administration of the university perceive criticism in their address?	4 peop (12,9%)	1 peop (61,3%)	8 peop (25,8%)	0 peop (0%)	0 peop (0%)	-
33	Assess how well your academic workload meets your expectations and capabilities	9 peop (29%)	18 peop (58,1%)	3 peop (9,7%)	1 peop (3,2%)	0 peop (0%)	-
34	Evaluate the focus of educational programs/training programs on the formation of students' skills and abilities to analyze the situation and make forecasts	13 peop (41,9%)	18 peop (58,1%)	0 peop (0%)	0 peop (0%)	0 peop (0%)	-
35	Evaluate how the educational program meets the expectations of the labor market and employers in terms of content and quality of implementation	14 peop (45,2%)	16 peop (51,6%)	1 peop (32%)	0 peop (0%)	peop (0%)	-

36. Why do you work at this university?

- ✓ *After graduation, I had the choice to work in production or at the university. I decided to work for a year and then decide. I enjoyed teaching and therefore decided to continue. And why this particular university, because firstly, I like that there are opportunities to work in a scientific direction, i.e. combine them. Also, the atmosphere in the team plays an important role in choosing a place of work. I believe that our university has opportunities for career growth. And an important factor is employee bonuses. разумие, перспективы*
- ✓ *AUPET - one of the leading universities in the field of technology, Central Asia,*
- ✓ *I chose to work at this university because I believe in its mission and the values of education. This university is known for its high-quality educational process and attractive learning environment, which promotes the development of students and helps them achieve success.*
- ✓ *The only specialized university in the energy sector*
- ✓ *The opportunity to realize the professional qualities of a teacher and scientist in one of the best technical universities of the Republic of Kazakhstan for 29 years*
- ✓ *High professionalism of the department. Management support*
- ✓ *I have been working at this university for almost 40 years. I have been teaching since the opening of the Department of Engineering Thermophysics, now the Department of Thermal Power Engineering. For many years we have been training industrial thermal power engineers for the country's economy. I like the organization of the student's learning process from the first year to the last year, where I take a direct part in various stages of training (reading special courses, applying for industrial and postgraduate practice, thanks to many years of communication with industrial enterprises and even assistance in hiring graduates of the department). To be honest, I am very happy when my graduate student or just a graduate of our department got a job in his specialty and years later this graduate achieved career growth and asks us to send our students to his company for employment. This is the main point of your work at the university, that you see the result of your work!*
- ✓ *I graduated from this university.*
- ✓ *I don't like to change places*
- ✓ *Enrolled in doctoral studies*
- ✓ *Because this is my second Homeland!*
- ✓ *There are opportunities to combine teaching with scientific research. Good bachelor's degree level. The university has a good reputation. Conformity to values and culture.*
- ✓ *I love AUPET*
- ✓ *Here, students really study on their own, they get grades for their knowledge. There is a very high level of teaching staff at the department, there is a lot to learn from them, the material is very complex, but interesting.*
- ✓ *Where is it? The highest level of qualifications of the teaching staff is here, this is the first! And the second one! I grew up here!*
- ✓ *I have been working at this university for 20 years. Attitude to teaching staff and students, discipline, exactingness.*
- ✓ *The best of the available options.*
- ✓ *I like to study and teach students.*
- ✓ *It just so happened.*
- ✓ *1.The opportunity to combine teaching and doctoral studies, as well as research activities. 2.The qualification level of the PTS, I think I can learn a lot from my colleagues. 3. The atmosphere at the department and the support of colleagues. 3.I consider AUPET to be one of the best universities in the Republic of Kazakhstan*

37. How often are master classes and reading of topics with the participation of practitioners conducted as part of your course?

very often	2 peop	6,5%
often	15 peop	48,4%
sometimes	12 peop	38,7%
very rarely	2 peop	6,5%
Absolutely not	2 peop	6,5%

38. How often do invited teachers (domestic and foreign) participate in the learning process?

very often	3 peop	9,7%
often	12 peop	38,7%
sometimes	12 peop	41,9%
very rarely	3 peop	9,7%
never	3 peop	9,7%

39. How often do you encounter the following problems in your work: (please give an answer in each line)

	Often	Sometimes	Never	There is no answer
Lack of classrooms	2 peop (6,5%)	13 peop (41,9%)	16 peop (51,6%)	-
Unbalanced academic load by semester	2 peop (6,5%)	15 peop (48,4%)	14 peop (45,2%)	-
Unavailability of necessary literature in the library	0 peop (0%)	11 peop (35,5%)	20 peop (64,5%)	-
Overcrowding of study groups (too many students in a group)	2 peop (6,5%)	11 peop (35,5%)	18 peop (58,1%)	-
Inconvenient schedule	2 peop (6,5%)	12 peop (38,7%)	17 peop (54,8%)	-
Inappropriate classroom conditions	2 peop (6,5%)	14 peop (45,2%)	15 peop (48,4%)	-
Lack of Internet access/weak Internet	5 peop (16,1%)	14 peop (45,2%)	12 peop (38,7%)	-
Students' lack of interest in learning	2 peop (6,5%)	17 peop (54,8%)	12 peop (38,7%)	-
Late receipt of information about events	1 peop (3,2%)	11 peop (35,5%)	19 peop (61,3%)	-
Lack of technical facilities in classrooms	4 peop (12,9%)	16 peop (51,6%)	11 peop (35,5%)	-
Other problems	<ul style="list-style-type: none"> ✓ No ✓ no, no problem ✓ Lack of modern professional software products for thermal power engineering ✓ I ask the Ministry of Higher Education and Science to revise the classifier and withdraw EP Teploenergetika from the group of EP Electrical Engineering and Energy. ✓ More hours are allocated for laboratory work. ✓ No ✓ added to the rank ✓ There are no significant problems at the university, as all the necessary conditions for effective work have been created. ✓ I would like a uniform load. In our specialty, we constantly have to study a lot. I would like to do more science, but there is very little time ✓ Equipping lecture halls with computer equipment and screens. ✓ Low teacher salary ✓ It is inconvenient that the teaching room is located in Building D, and all the cathedral laboratories are in Building A ✓ No 			

40. There are many different sides and aspects in the life of the university that affect every teacher and employee in one way or another. Rate how satisfied you are:

Question	Completely satisfied	Partially satisfied	Not satisfied	I find it difficult to answer
The attitude of the university management towards you	16 peop (51,6%)	15 peop (48,4%)	0 peop (0%)	0 peop (0%)
Relations with direct management	23 peop (74,2%)	8 peop (25,8%)	0 peop (0%)	0 peop (0%)
Relations with colleagues at the department	28 peop (90,3%)	3 peop (9,7%)	0 peop (0%)	0 peop (0%)
Participation in management decision-making	16 peop (51,6%)	14 peop (45,2%)	1 peop (3,2%)	0 peop (0%)
Relations with students	27 peop (87,1%)	4 peop (12,9%)	0 peop (0%)	0 peop (0%)
Recognition of your successes and achievements by the administration	19 peop (61,3%)	9 peop (29%)	1 peop (3,2%)	2 peop (6,5%)
Support for your suggestions and comments	18 peop (58,1%)	10 peop (32,3%)	3 peop (9,7%)	0 peop (0%)
The activities of the university administration	16 peop (51,6%)	12 peop (38,7%)	1 чел. (3,2%)	2 чел. (6,5%)
Terms of payment	11 peop (35,5%)	15 peop (48,5%)	5 peop (16,1%)	0 peop (0%)
Working conditions, list and quality of services provided at the university	22 peop (71%)	8 peop (25,8%)	1 peop (3,2%)	0 peop (0%)
Occupational safety and health	22 peop (71%)	8 peop (25,8%)	1 peop (3,2%)	0 peop (0%)
Managing changes in the university's activities	14 peop (45,2%)	15 peop (48,4%)	1 peop (3,2%)	1 peop (3,2%)
By providing a social package: rest, sanatorium treatment, etc.	10 peop (32,3%)	16 peop (51,6%)	2 peop (6,5%)	3 peop (9,7%)
Organization and quality of nutrition at the university	18 peop (58,1%)	10 peop (32,3%)	1 peop (3,2%)	2 peop (6,5%)
Organization and quality of medical care	17 peop (54,8%)	11 peop (35,5%)	1 peop (3,2%)	2 peop (6,5%)

Application 4. THE RESULTS OF THE STUDENT SURVEY

Application form for students
The results of an anonymous student survey
NJCS «Almaty University of Power Engineering and Telecommunication named after
G.Daukeyev»

Total number of questionnaires: 16

Man (male)	12 peop	75 %
Woman (femal)	4 peop	25%

1. evaluate how satisfied you are with the following situations: (please note that you are satisfied:)

Questions	Completely satisfied	Partially satisfied	Partially dissatisfied	Not satisfied	I find it difficult to answer
Relations with the Dean's office	10 peop (62,5 %)	5 peop (31,3 %)	0 peop (0 %)	1 peop (6,3 %)	0 peop (0 %)
The level of accessibility of the dean's office	12 peop (75 %)	3 peop (18,8 %)	0 peop (0 %)	1 peop (6,3 %)	0 чел (0 %)
The level of accessibility and responsiveness of the university management	10 peop (62,5 %)	5 peop (31,3 %)	0 peop (0 %)	1 peop (6,2 %)	0 чел (0 %)
The availability of academic counseling to you	12 peop (75 %)	1 peop (6,3 %)	1 peop (6,3 %)	1 peop (6,3 %)	0 чел (6,3 %)
Support of educational materials in the learning process	13 peop (81,3 %)	2 peop (12,5%)	1 peop (6,3 %)	0 peop (0 %)	0 чел (0 %)
Availability of personal counseling	12 peop (75 %)	2 чел (12,5 %)	0 чел (0 %)	0 чел (0 %)	2 чел (12,5 %)
Student-teacher relationship	8 peop (50 %)	5 peop (31,3 %)	2 peop (12,5 %)	0 peop (0 %)	1 чел (6,3 %)
Financial and administrative services of the educational institution	9 peop (56,3 %)	5 peop (31,3%)	0 peop (0%)	1 peop (6,3 %)	1 чел (6,3 %)
Accessibility of health services	12 peop (75 %)	3 peop (18,8 %)	0 peop (0 %)	0 peop (0 %)	1 чел (6,3 %)
The quality of medical care at the university	11 peop (68,8 %)	4 peop (25 %)	0 peop (%)	0 peop (%)	1 чел (6,3%)
The level of accessibility of library resources	13 peop (81,3 %)	1 peop (6,3 %)	1 peop (6,3 %)	0 peop (0 %)	1 чел (6,3 %)
The quality of services provided in libraries and reading rooms	14 peop (87,5 %)	1 peop (6,3 %)	0 peop (0 %)	0 peop (0 %)	1 чел (6,3 %)
Satisfaction with the existing educational resources of the university	13 peop (81,3 %)	2 peop (12,5%)	0 peop (0 %)	0 peop (0 %)	1 чел (6,3 %)
Availability of computer classes	13 peop (81,3 %)	2 peop (12,5%)	0 peop (0 %)	0 peop (0 %)	1 чел (6,3 %)
The availability and quality of Internet resources	10 peop (62,5 %)	4 peop (25 %)	1 peop (6,3%)	1 peop (6,3 %)	0 чел (%)
The content and information content of the website of educational organizations in general and faculties (schools) in particular	11 peop (68,8 %)	4 peop (25 %)	0 peop (0 %)	0 peop (0 %)	1 чел (6,3 %)
Classrooms, classrooms for large groups	9 peop (56,3%)	4 peop (25 %)	2 peop (12,5 %)	1 peop (6,3 %)	0 чел (0 %)
Rest rooms for students (if available)	9 peop (56,3 %)	1 peop (6,3 %)	1 peop (6,3 %)	3 peop (18,3 %)	2 чел (12,5 %)
Clarity of the procedure for taking disciplinary action	12 peop (75 %)	3 peop (18,8 %)	0 peop (0 %)	0 peop (0 %)	1 чел (6,3 %)
The quality of the educational program as a whole	9 peop	5 peop	1 peop	1 peop	0 чел

Questions	Completely satisfied	Partially satisfied	Partially dissatisfied	Not satisfied	I find it difficult to answer
	(56,3 %)	(31,3 %)	(6,3 %)	(6,3 %)	(0 %)
The quality of educational programs in the EP	9 peop (56,3 %)	4 peop (25 %)	2 peop (6,3 %)	1 peop (6,3 %)	0 чел (0 %)
Teaching methods in general	10 peop (62,5 %)	4 peop (25 %)	1 peop (6,3 %)	0 peop (0 %)	1 peop (6,3 %)
The speed of response to feedback from teachers regarding the educational process	11 peop (68,8 %)	5 peop (31,3 %)	0 peop (0 %)	0 peop (0 %)	0 peop (0 %)
The quality of teaching in general	9 peop (56,3 %)	6 peop (37,5 %)	1 peop (6,3 %)	0 peop (0 %)	0 peop (0 %)
Academic workload/student requirements	11 peop (68,8 %)	2 peop (12,5 %)	1 peop (1 %)	1 peop (1 %)	1 peop (1 %)
The requirements of the PTS for the student	14 peop (87,5 %)	1 peop (6,3 %)	0 peop (0 %)	0 чел (0 %)	1 peop (6,3 %)
Information support and explanation of the admission rules and the strategy of the educational program (specialty) before admission to the university	10 peop (62,5%)	4 peop (25 %)	1 peop (6,3 %)	0 peop (0 %)	1 peop (6,3 %)
Informing the requirements in order to successfully complete this educational program (specialty)	13 peop (81,3 %)	1 peop (6,3 %)	1 peop (6,3 %)	0 peop (0 %)	1 peop (6,3 %)
The quality of examination materials (tests and examination questions, etc.)	11 peop (68,8 %)	4 peop (25 %)	0 peop (0 %)	0 peop (0 %)	1 peop (6,3 %)
The objectivity of the assessment of knowledge, skills and other educational achievements	13 peop (81,3 %)	2 peop (12,5 %)	0 peop (0 %)	0 peop (0 %)	1 peop (6,3 %)
Available computer classes	13 peop (81,3 %)	1 peop (6,3 %)	1 peop (6,3 %)	0 peop (0 %)	0 peop (6,3 %)
Available scientific laboratories	12 peop (75 %)	3 peop (18,8 %)	0 peop (0 %)	0 peop (0 %)	1 peop (6,3 %)
Objectivity and fairness of teachers	10 peop (62,5 %)	5 peop (31,3 %)	0 peop (0 %)	0 peop (0 %)	1 peop (6,3 %)
Informing students about courses, educational programs and academic degrees	12 peop (75 %)	3 peop (18,8 %)	1 peop (6,3 %)	0 peop (0 %)	0 peop (0 %)
Providing students with a dormitory	13 peop (81,3 %)	1 peop (6,3 %)	0 peop (0 %)	0 peop (0 %)	2 peop (12,5 %)

4. Rate how much you agree:

Statement	Full consent	I agree	I partially agree	I disagree	Complete disagreement	They didn't answer
1. The course program was clearly presented	9 peop (56,3 %)	5 peop (31,3 %)	2 peop (12,5 %)	0 peop (0 %)	0 peop (0 %)	-
2. The course content is well structured	10 peop (62,5 %)	3 peop (18,8 %)	2 peop (12,5 %)	1 peop (6,3 %)	0 peop (0 %)	-
3. The key terms are sufficiently explained	9 peop (56,3 %)	6 peop (37,5 %)	1 peop (6,3 %)	0 peop (0 %)	0 peop (0 %)	-
4. The material proposed by the teacher is relevant and reflects the latest achievements of science and practice	9 peop (56,3 %)	4 peop (25 %)	3 peop (18,8 %)	0 peop (0 %)	0 peop (0 %)	-
5. The teacher uses effective teaching methods	8 peop (50 %)	6 peop (37,5 %)	2 peop (12,5 %)	0 peop (0 %)	0 peop (0 %)	-
6. The teacher owns the taught material	12 peop (75 %)	3 peop (18,8 %)	1 peop (%)	0 peop (0 %)	0 peop (0 %)	-
7. The teacher's presentation is clear	10 peop (62,5 %)	4 peop (25 %)	2 peop (12,5 %)	0 peop (0 %)	0 peop (0 %)	-
8. The teacher presents the material in an interesting way	9 peop (56,3 %)	4 peop (25 %)	3 peop (18,8 %)	0 peop (0 %)	0 peop (0 %)	-
9. The objectivity of the assessment of knowledge, skills and other educational achievements	8 peop (50 %)	6 peop (37,5 %)	2 peop (12,5 %)	0 peop (0 %)	0 peop (0 %)	-
10. The timeliness of the assessment of students'	8 peop	5 peop	2 peop	1 peop	0 peop	-

academic achievements	(50 %)	(31,3 %)	(12,5 %)	(6,3 %)	(0 %)	
11. The teacher satisfies my requirements for personal development and professional formation	10 peop (62,5 %)	4 peop (25 %)	2 peop (12,5 %)	0 peop (0 %)	0 peop (0 %)	-
12. The teacher stimulates the activity of students	12 peop (75 %)	1 peop (6,3 %)	3 peop (18,8 %)	0 peop (0 %)	0 peop (0 %)	-
13. The teacher stimulates the creative thinking of students	9 peop (56,3 %)	3 peop (18,8 %)	4 peop (25 %)	0 peop (0 %)	0 peop (0 %)	-
14. The appearance and manners of the teacher are adequate	12 peop (75 %)	2 peop (12,5 %)	2 peop (12,5 %)	0 peop (0 %)	0 peop (0 %)	-
15. The teacher shows a positive attitude towards students	9 peop (56,3 %)	5 peop (31,3 %)	2 peop (12,5 %)	0 peop (0 %)	0 peop (0 %)	-
16. The system of assessment of educational achievements (seminars, tests, questionnaires, etc.) reflects the content of the course	11 peop (68,8 %)	4 peop (25 %)	1 peop (6,3 %)	0 peop (0 %)	0 peop (0 %)	-
17. The evaluation criteria used by the teacher are clear	11 peop (68,8 %)	4 peop (25 %)	1 peop (6,3 %)	0 peop (0 %)	0 peop (0 %)	-
18. The teacher objectively evaluates the achievements of students	9 peop (56,3 %)	5 peop (31,3 %)	2 peop (12,5 %)	0 peop (0 %)	0 peop (0 %)	-
19. The teacher speaks a professional language	12 peop (75 %)	3 peop (18,8 %)	1 peop (6,3 %)	0 peop (0 %)	0 peop (0 %)	-
20. The organization of education provides sufficient opportunity for sports and other leisure activities	10 peop (62,5 %)	2 peop (25 %)	21 peop (6,3 %)	1 peop (6,3 %)	0 peop (0 %)	-
21. The facilities and equipment for students are safe, comfortable and modern	10 peop (62,5 %)	5 peop (31,3 %)	1 peop (6,3 %)	0 peop (0 %)	0 peop (0 %)	-
22. The library is well equipped and has a fairly good collection of books	12 peop (75 %)	2 peop (12,5 %)	2 peop (12,5 %)	0 peop (0 %)	0 peop (0 %)	-
23. Equal opportunities are provided to all students	11 peop (68,8 %)	4 peop (25 %)	1 peop (6,3 %)	0 peop (0 %)	0 peop (0 %)	-

5. Other problems regarding the quality of teaching (Baska maseler): 4 answers

- No
- Insufficient attention to the individual needs of students
- Not really
- No

