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

***5B071800-ELECTRIC POWER ENGINEERING,***
***5B073100- LIFE SAFETY AND ENVIRONMENTAL PROTECTION***
***6M073100-LIFE SAFETY AND ENVIRONMENTAL PROTECTION***
***5B060800-ECOLOGY***
***6M060800-ECOLOGY***

***Korkyt ata Kyzylorda State University***

***Site Visit Dates: from "16»to "18»April 2019***

***INDEPENDENT AGENCY ACCREDITATION AND RATING***
**External expert committee**

**Addressed to**
**Accreditation**
**Council to the IAAR**

# REPORT

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**Korkyt ata Kyzylorda State University**

**from "16»to "18»April 2019**

**Kyzylorda, 2019**

## Content

## (I) LIST OF SYMBOLS AND ABBREVIATIONS

EP- educational program
EP - educational program
RO - Registrar Office
QMS - quality management system
RSE - Republican State Enterprise
AEM - as economic management
Faculty - faculty
EDMS - Electronic Document Management System
Mass media - mass media
NAS RK - National Academy of Sciences of the Republic of Kazakhstan
IDC- Intellectual Debate Club
ISIOS- International Standard of the International Organization for Standardization
AMS - accounting for the movement of students
ECOD - educational complex of the discipline
IWST - independent work of the student with the teacher
UNT - Unified National Testing
CT - complex testing
LLP - limited liability partnership
JSC- joint stock company
SUC - state utility company
HE - higher education
WI - work instruction
SRW- student research work
SSC- student's scientific circles
EEEA - external evaluation of educational achievements
SAC - State Attestation Commission
WC - working curriculum
RL- research laboratory
Scientific Research Institute - Research Institute
RC - Research Center
Emergencies- student construction team
ECS -educational complex of specialties
SMCU- Scientific and Methodological Council of the University
SMBF- scientific and methodical bureau of faculties
ISP- individual study plan
CED- catalog of elective disciplines
ICS- individual code of students

## (II) INTRODUCTION

In accordance with Order No. 28-19-OD of 03/19/2019 of the Independent Accreditation Agency and Rating, from April 16 to April 18, 2019, an external expert committee assessed compliance of educational programs 5B071800-Electric Power Industry, 5B073100-Life Safety and Environmental Protection6 6M073100 – Life safety and environmental protection

5B060800-Ecology, 6M060800- Ecology of Korkyt ata Kyzylorda State University to standards of specialized accreditation of the IAAR (No. 10-17-OD dated February 24, 2017, fifth edition).

The report of the external expert commission (EEC) contains an assessment of compliance with the activities of. Korkyt ata Kyzylorda State University in the framework of specialized accreditation to the criteria of the IAAR, recommendations of the EEC to further improve the parameters of the specialized profile.

**The composition of the EEC:**

**1. The Chairman of the Commission** is Musabalina Gulnar Toleugazievna, Doctor of Historical Sciences, Professor, L.Gumilyov Eurasian National University (Astana);

**2. Foreign expert –**Dagnija Blumberga, professor, Institute of Ecology and Energy Systems, Riga Technical University, expert of the Academic Information Center (AIC) (Riga, Latvia);

**3. Foreign expert** - Vasilyev Dmitry Valentinovich, candidate of historical sciences, professor, Moscow City Pedagogical University (MGPU), expert of the "Guild of experts in the field of vocational education» (Moscow, Russian Federation);

**4. Expert** – Mamyrkhanova Zhamilya Temirgalievna, doctor PhD, Taraz State University. M.H. Dulati (Taraz);

**5. Expert** – Movkebaeva Galiya Akhmetvalievna, Doctor of History, Professor, Kazakh National University. Al-Farabi (Almaty);

**6. Expert** - Clare Turebaeva, Doctor of Pedagogical Sciences, Professor, Aktobe Regional University. To Zhubanov (Aktobe);

**7. Expert** - Smirnov Mikhail Borisovich, Ph.D., professor, State University. ShakarimSemey;

**8. Expert** – Burbekova Saule Zorabekovna, Ph.D., Suleyman Demirel University (Almaty);

**9. Expert** – Elubay Madeniet Azamatuly, Ph.D. (Chemistry), associate professor, S. Toraigyrov Pavlodar State University (Pavlodar);

**10. Expert** – Duysenbina Asem Turarovna, Ph.D., Kokshetau State University. Sh.Ualikhanov (Kokshetau);

**11. Expert** – Nosiyeva Nazym Kazhimuratovna, Candidate of Philology, Acting Associate Professor, S.Seifullin Kazakh Agrotechnical University (Astana);

**12. Expert** – Indina Sadybekovna Rystina, Associate Professor, Doctor of PhD, L.Gumilyov Eurasian National University (Astana);

**13. Expert –**Markovsky Vadim Pavlovich, Ph.D., associate professor, S. Toraighyrov Pavlodar State University (Pavlodar);

**14.The employer is** Məmen Baldyrkan Nurtugankyzy, press secretary of the RPP of the Kyzylorda region (Kyzyorda);

**15.The employer is** Mustafin Anuar Mamaevich, director of the Safe Consulting Service LLP (Kyzyorda);

**16. Student –**Kanibayeva Gulzat Beybitқyzy, member of the Alliance of Students of Kazakhstan of Kyzylorda region, 4th year student of the EP "5B011700-Kazakh language and literature", University "Bolashak» (Kyzylorda);

**17. Student** – Newarbek Askat Nurlanuly, member of the Alliance of Students of Kazakhstan of Kyzylorda region, 3-year student of the EP "5B030100-Jurisprudence", University "Bolashak» (Kyzylorda);

**18. Student** – Yerbolat Oziz Yerbolatuly, member of the Alliance of Students of Kazakhstan of Kyzylorda Oblast, first-year student of EP "5B070800 - Oil and Gas Business", Humanitarian-Technical Institute "Akmeshit» (Kyzylorda);

**19. Student** - Esepbayeva Farida Orazbaykyzy, member of the Alliance of Students of Kazakhstan of Kyzylorda region, 2nd year student of the educational program "5B060800-Ecology", Humanitarian-Technical Institute "Akmeshit» (Kyzylorda);

**20. Student** - Kenes Laura Zharkynbekkyzy, member of the Alliance of Students of Kazakhstan of Kyzylorda Oblast, 3rd year student of EP "0512000-Translation Studies", Kazakh Humanitarian Law and Technical Higher College (Kyzylorda);

**21. Observer for the Agency** – Timur Kanapyanov, Head of International Projects and Public Relations of the IAAR (Astana).

## (III) REPRESENTATION OF THE ORGANIZATION OF EDUCATION

The republican state enterprise on the right of economic management "Korkyt ata Kyzylorda State University of the Ministry of Education and Science of the Republic of Kazakhstan" (hereinafter - Korkyt ata KSU) was established on the basis of Korkyt ata Kyzylorda Humanitarian University and I. Jakhayev Kyzylorda Polytechnic Institute (Resolution of the Government of the Republic Kazakhstan No. 256 dated March 24, 1998).

Korkyt ata KSU operates on the basis of the Laws of the Republic of Kazakhstan "On Education", "On Science", the Development Strategy "Kazakhstan - 2050: a new political course of the established state", the State Program for the Development of Education and Science of the Republic of Kazakhstan for 2016-2019, other legal Acts of the Ministry of Education and Science of the Republic of Kazakhstan, regulating relations in the field of higher and postgraduate education, is guided by the Charter of the University, Academic Policy, the Strategic Development Plan of the Korkyt ata KSU for 2017–2021 (approved at the meeting of the Supervisory Board on 11.09.2017, Minutes No. 3).

The mission of the university is to prepare competitive and in-demand specialists with higher and postgraduate education, focused on solving the issues of industrial and innovative development in all sectors of the economy of the Kyzylorda region and the Republic of Kazakhstan.

Strategic vision: Korkyt ata Kyzylorda State University is an innovative entrepreneurial university with high positions in national rankings, which is included in the world ranking of universities.

Evaluation of the effectiveness of the University's mission is carried out by comparing the results of work with the objectives and is used as a feedback mechanism for making management decisions and analyzing the functioning of the quality management system (hereafter QMS). The quality management system operating at the university complies with the requirements of ISO 9001: 2015 standard for educational activities, which is confirmed by the certificate of the Technical Center Register No. ROSS KZ.KKK.K00075, dated July 6, 2017.

Educational activities of Korkyt ata KSU under bachelor, master and PhD doctoral programs are carried out on the basis of an unlimited license (No. 12019394) issued by the Committee on the Control of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan on December 11, 2012. The university carries out

training in accordance with the Classifier of specialties of higher and postgraduate education in Kazakhstan in 7 areas (Education, Humanities, Social Sciences, Technical Sciences, Economics, Law, Services). There are 30 departments in 7 faculties that train specialists in 64 undergraduate programs, 30 graduate programs, and 9 PhD doctoral programs.

The material and technical base of the university includes 10 academic buildings, 5 dormitories, the Palace of Students, 7 student canteens, the Seykhun sports and recreation complex, a military training ground, and a library with 6 reading rooms.

The contingent of students of Korkyt ata KSU.on September 1, 2018 amounted to 5059 people:

Undergraduate (4611):

- full-time - 3926 students, including on the basis of the state educational grant - 551, on a contractual basis with full cost recovery - 3375 students;
- by correspondence - 685 students, including on the basis of the state educational grant - 7 students.

4411 students study in the state language.

Master's - 405 people, including on the basis of the state educational grant - 253, on a contractual basis with full cost recovery - 152 students;

Doctoral studies - 43 people, including 39 - by state educational order.

In. Korkyt ata KSU enrolls 25 foreign students and 1 foreign undergraduate, including 11 foreign students and 1 foreign undergraduate from China, 12 foreign students from Uzbekistan, 2 foreign students from Turkmenistan.

The educational process provides faculty in the amount of 518 people, of which full-time - 486 people (more than 94%):

Doctors of sciences, professors - 18 people;

Doctors PhD - 20 people;

Candidates of Sciences, associate professors - 194 people;

Masters - 179 people.

The degree of higher education is 47%.

Among the full-time teachers are teaching staff who have experience in enterprises in the field of training.

The university has the necessary library fund for the implementation of educational activities, which amounts to 2202483 copies, including the fund of educational literature - 1775755 copies, of which in the state language - 936245, the fund of educational and methodical literature - 184098 copies, of which in the state language - 94805, The fund of scientific literature - 242630 copies, 60804 of them in the state language.

The university publishes the scientific journal “Bulletin of Korkyt KSU”, a high-school newspaper “Syrtulegi” is published.

In 2018, Korkyt ata Kyzylorda State University entered the TOP-300 of the best universities in Eastern Europe and Central Asia according to the international QS University Rankings: Emerging Europe and Central Asia (QS EECA), ranking 273th.

In the National ranking of demand for universities RK-2018, which is conducted by the Independent Agency for Accreditation and Rating (IAAR).Korkyt ata KSU. is in the TOP-20 of the best universities of the republic, occupying 10th place, and in the National ranking of RK-2018 among the multi-disciplinary universities of the Republic of Kazakhstan, according to the Independent Agency for Quality Assurance in Education (IAQAE), the university occupies the 9th place.

Korkyt ata KSU is a member of the European Association of Higher Education Institutions (2005), the Eurasian-Pacific Network of Universities (2005), the Magna Carta of Universities (2005), the Eurasian Association of Universities (2011) and the Association of Asian Universities (2017).

Training in accredited EP (5B071800-Electricity, 5B073100-Life safety and environmental protection, 6M073100-Life safety and environmental protection, 5B060800 Ecology, Ecology 6M060800-) carries out the department "Power and Life Safety", "Ecology and chemical technology »Which are a structural unit of the Faculty of Environmental Engineering.

Personnel training on accredited EP (5B071800-Electric Power Industry, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology) is carried out by the department "Electric Power and Safety vital activity", “Ecology and chemical technologies" which are a structural unit of the Faculty of Environmental Engineering.

Training is conducted in full-time form in the state and Russian languages. The number of teaching staff engaged in training in the accredited specialties 5B060800-Ecology, 6M060800-Ecology, 5B071800-Electric power industry; 5B073100 - Life safety and environmental protection, 6M073100 - Life safety and environmental protection is 29 people, among them 15 candidates of science, PhD - 1, which is 55.1%.

Training is conducted in full-time and distance learning for undergraduate and graduate. Training is conducted in the Kazakh and Russian languages.

EP 5B060800-Ecology is implemented by 35 teachers, including teachers of the department “Ecology and HT, 13 teachers, 22 serving departments, 13 of them are candidates, which makes up 54% of degree.

EP 5B071800-Power Engineering is implemented by 36 teachers, including 16 teachers of the department "Electricity and Life Safety» and 20 teachers of service departments, of which 19 are candidates, representing 52% of degree.

EP 5B071800-Life Safety and Health Services are implemented by 38 teachers, including 19 teachers of the department "Electricity and Life Safety» and 19 teachers of the service departments, 21 of them, representing 55% of degree.

Currently, the contingent of students is: at the EP 5B060800-Ecology 42 students are enrolled in full-time education, including 6 state under the state educational grant, 6 undergraduate form, 7 undergraduate students, including the state educational grant - 6, at EP 5B071800-Power Industry 150 students are enrolled in full-time education, including 15 state educational grant 15, 68 students in distance form, 5B073100-Life Safety and Environmental Protection about 57 students are taught, including the state educational grant 1, 14 students by distance form, 6 undergraduates, including the state educational grant - 4.

According to the results of the rating conducted by the Independent Accreditation Agency and Rating (IAAR) 2017, Korkyt ata Kyzylorda State University takes the 10th place (http://www.korkyt.kz/index.php/ru/2018-04-04-03-20 -25 / novosti / 592-kgu-imeni-korkyt-ata-v-chisle-luchshikh-vuzov-respubliki-kazakhstan).

According to the results of the rating conducted by the Independent Accreditation Agency and Rating (IAAR) EP 5B071800 - Electric power industry takes 10th place in 2018, 5B073100-Life safety and environmental protection - 7th place, 5B060800 - Environmentalists - 5th place, 5B071800 - Electric power industry 11th .

Employment of graduates in an accredited EP cluster is in 2018 in EP 5B060800-Ecology is 80, 5B071800-Electric power engineering 66, 5B073100-Health and environment protection 77.

At present, on the basis of cooperation agreements with universities, educational programs of accredited educational programs implement a program of academic mobility of students. In the 2018-2019 school year, the 3rd year student of the EP 5B060800-Ecology ScherbakAkbotaSerikyzy was sent to the Almaty Technological University for training in the period from 1.10.2018 to 17.02.2019g. 4th year student of the EP 5B071800-Power Marat Diyar are studying at the University of Lodz (Lodz, Poland).

Together with REEF Centrifugal Technologies LLP, a project is being carried out on the theme "Processing of oily waste using innovative technology" at the expense of JSC Science Fund under the program Grant financing of projects commercializing the results of scientific and / or scientific and technical activities for a total of 270 million. tenge (reg. number 0331-17-GK) is performed by Professor Appazov N.O. According to the developed technology, centrifugal equipment for processing oil sludge was manufactured at GEA Westfalia Separator CI LLC. Negotiations were held and an agreement was drawn up with PetroKazakhstanKumkol Resources, JSC on processing oil sludge.

## (IV) DESCRIPTION OF PREVIOUS ACCREDITATION PROCEDURE

Educational programs 5B071800-Electric Power, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology are accredited to the IAAR for the first time.

## (V) DESCRIPTION OF THE EEC VISIT

The visit of the external expert committee at Korkyt ata KSU.was carried out on the basis of the approved and pre-agreed Program of the visit of the expert committee on specialized accreditation of Korkyt ata Kyzylorda State University in the period from 16 to 18 April 2019.

In order to coordinate the work of the EEC on April 15, 2019, an orientation meeting was held, during which powers were distributed among the members of the commission, the schedule of the visit was clarified, and agreement was reached on the choice of examination methods.

In order to obtain objective information on the evaluation of the university, the members of the EEC used such methods as visual inspection, observation, interviewing employees of various departments, teachers, students, graduates and employers, survey of faculty members, students.

In accordance with the requirements of the standards, the program of the visit covered meetings with the acting. rector, vice-rectors, heads of departments, deans, heads of university departments, teachers, students, graduates, employers and employees from various departments, interviewing and questioning teachers and students. In total, 161 people took part in the meetings (Table 1).

**Information about the staff and students who participated in the meetings with the EEC IAAR:**

| Categoryofparticipants | Number |
|---|---|
| Rector | 1 |
| Vice Rector | 4 |
| Headsofdepartments | 24 |
| FacultyDeans | 3 |
| Headsofdepartments | 7 |
| Teachers | 20 |
| Students | 23 |
| Graduates | 48 |

| | |
|---|---|
| Employers | 31 |
| Total | 161 |

During the visual inspection, the EEC members familiarized themselves with the state of the material and technical base, visited the faculties and departments implementing accredited educational programs, the exhibition hall of the National Research Center "Archeology and Ethnography", the training hall "President and Independent Kazakhstan", the scientific and technical library, sports health complex "SEIKHUN", hostel number 5, greenhouse, educational and specialized laboratories of the engineering profile "Electrical materials and high voltage equipment", "Alternative energy", Electrical engineering and electronics", “Electrical networks and systems", “Electrical machines and electric drive», “Electrical equipment and installation of electrical equipment», “Labor protection and safety of vital activity", “Environmental monitoring», “Laboratory engineering profile ", “Physical and chemical methods of analysis”, “Municipal laboratory in the branches of the Department of RSE on PVC» National Center of Expertise» in Kyzylorda region and ECO GUARD LLP.

The activities planned during the visit of the EECAAA contributed to familiarizing experts with the bases of the practices of EP 5B071800-Electricity, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Environment, 6M060800-Environment. The expert group visited JSC "Kyzylorda Distribution Electric Grid Company", State Enterprise "Kyzylorda teploelectro central", the National Center for Expertise on the Kyzylorda region.

The members of the EEC attended training sessions on the subject "Ecological Chemistry", the topic "Determination of heavy metals (iron) in drinking water", 2nd year, EP 5B060800-Ecology, Art. LIB Zhienbaeva, teacher (Laboratory of the Institute of Chemical Research and Technology, 5k); on the discipline "The structure and evolution of the biosphere", the topic "Prediction and analysis of future biosphere functions", 3 course, specialty 5B060800 - Ecology, teacher - Orynbekov DD (audience 121, building №5), on the subject "Industrial Electronics", the topic of the laboratory lesson "Operational amplifiers", 2nd year, specialty 5B071800-Power Engineering - senior lecturer, master Tlegenov AB, (audience 504, building 5) ; on the subject “Digital circuit engineering”, the topic of the laboratory lesson “Analog-digital converters”, 2 course, specialty 5B1002000-Information security systems - teacher, master U. Tolegenkyzy, (audience 505, building 5); on the subject “Fundamentals of relay protection in electric power systems”, the topic of the lecture lesson “Distance Protection Systems”, 3 course, specialty 5B071800-Power Engineering - Ph.D., senior lecturer Kurmanbaev G.B (audience 203, building 5).

In accordance with the accreditation procedure, a survey of 98 teachers, 93 students, including students of junior and senior courses was conducted.

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

All conditions were created for the work of the EEC, access to all necessary information resources was organized. On the part of the team of Korkyt ata KSU, the presence of all persons indicated in the visit's program was ensured, in compliance with the established time period.

Within the framework of the planned program, recommendations for improving accredited educational programs of the Korkyt ata KSU, developed by the EEC based on the results of the examination, were presented at a meeting with the management of 04/18/2019

# (VI) CONFORMITY TO SPECIALIZED ACCREDITATION STANDARDS

## *6.1. Standard "Management of the educational program"*

***The evidence part***

The activities of Korkyt ata KSU are regulated by the Charter of the university, the Quality Policy, the Strategic Development Plan of the Korkyt Ata Kyzylorda State University for 2017–2021, and a series of documents defining the university's academic policy.

The mission of the university is to prepare competitive and in-demand specialists with higher and postgraduate education, focused on solving the issues of industrial and innovative development in all sectors of the economy of the Kyzylorda region and the Republic of Kazakhstan.

The Commission notes that the Strategic Development Plan defines a long-term vision, which indicates that the educational activities of the university focus on the close integration of education, science and production, ensuring high quality educational and vocational training of graduates, as well as the development of a national innovation system.

The mission, strategic goals and objectives of the university are consistent with the state policy in the field of education, consistent with national priorities and development programs in the field of education and science of Kazakhstan. The EEC emphasizes that the mission, strategic goals and objectives of the university are formulated on the basis of material and financial resources, human and intellectual potential, assessment of the possibilities for their implementation, and also taking into account the analysis of external market situations. The strategic development plan of the university, containing the mission, objectives and goals, as well as the quality policy approved by the decision of the Academic Council (protocol No. 3 of September 11, 2017, changes and additions protocol No. 4 of November 13, 2018). Plans for the development of educational programs were approved at a meeting of the Academic Council of the University (Minutes No. 1 of September 1, 2017). The main directions of the development plans of the study program are harmonized with the Strategic Development Plan of the university.

The implementation of the university's development strategy for 2017–2021 and the strategic development plan of the university was carried out by the structural units according to the plan. To evaluate this standard, an analysis was made of existing development plans for accredited EPs and a system for monitoring their implementation, the results of external periodic evaluation of EPs, the mechanism for creating and revising the EP development plan, information resources and processes for disseminating information on the EP development plan, the resource support mechanism and organizational and managerial compliance structures aimed at the implementation of the development plan for EP, the internal and external environment, the educational services market to determine the initial pair eters of the development plan for EP, examination of information resources, material and technical base of the university, intended for the implementation of EP, protocols of collegial governing bodies, orders of the head of the university, management documentation, compliance with the professional qualifications of the top management of the organization and distribution of official duties, interviewing, faculty members, employees, students, employers and other interested parties.

The strategic, tactical and operational activities of the university are reflected in the university's planning, reporting and regulatory documents specifying the strategy for specific areas of the university's activities and reflecting the Quality Assurance Policy. The university's quality policy is an integral element of university management and the basis for the planning of its educational activities. The policy of quality assurance is reflected in

the regulations of the university in the Charter, in the Regulations, the Strategic Plan and other regulatory documents. Documents that ensure the policy and quality assurance of students are placed in the open information field on the university website, which is a guarantee of accessibility, openness and transparency not only to employees and students, but also to employers and other interested parties. Monitoring the implementation of the strategy is carried out on an ongoing basis in the course of reports on activities and, in general, reports of the entire university at meetings of the Academic Council. Issues reflecting strategic planning and its monitoring are considered at meetings of the Supervisory Board of the University. In addition, medium-term and short-term tasks are outlined in the annual and monthly plans of the university. The results of the qualitative implementation of the planned events are discussed monthly at the university administration (protocols are available). Perspective and strategic issues of the development of EP are solved taking into account the views of students, teachers, university employees and employers. Evaluation of the effectiveness of the mission, goals and objectives of the university, as well as the progress of the EP implementation is carried out on the basis of monitoring the main performance indicators and the timing of the planned activities, the results of which are discussed at meetings of departments, the Academic Council and the administration. Decisions taken at meetings of the above collegiate bodies stakeholders are brought to the attention, questions about the implementation of decisions taken are regularly heard.

Korkyt ata KSU regularly reviews the strategic objectives of the university in the light of changes in external factors, new key areas of government policy. The members of the EEC are convinced that the university has developed a policy in the field of quality assurance aimed at the continuous improvement of the educational process, research activities, and implementation of innovative projects. This policy is based on the mission, vision and values of the university. The university conducts an internal audit through monitoring the implementation of work plans for structural units, opinion polls, monitoring studies of the quality of students' knowledge. Management of educational programs is regulated by the following internal mechanisms:

- approval and monitoring of the implementation of development plans for the EP, assessment of the activities of the department;
- planning of individual pedagogical load, reporting and rating of teaching staff;
- conducting internal audits on various aspects of the educational process;
- checking the degree of readiness of the department for a new academic year;
- assessment at the end of the year of the degree of effectiveness of decisions taken at the department;
- assessment of the quality of the educational process, including the quality of classes and the organization of independent work of students;
- assessment of the degree of development of student learning outcomes;
- survey of employers, students, staff, teaching staff;
- analysis of feedback results.

The University ensures the awareness of stakeholders and the transparency of the content of the main strategic documents and development plans of the EP, conducts a public discussion with representatives of all stakeholders, a discussion on collegial bodies.

The EPs are considered at the meetings of the departments (No. 4 of December 28, 2018), further reviewed by the Academic Committee and the University Academic Council (Protocol (No. 5 of January 14, 2019), approved by the Rector on the basis of the decision of the Academic Council.

Representatives of the educational sphere - practitioners participate in the process of reviewing the content of the EP at the department meetings, prepare their reviews and propose topics of current elective courses, which, as a result of the general discussion, are

included in the MEP. Thus, taking into account the compliance of students in the accredited EP of the National Qualifications Framework, professional standards represent the level and amount of knowledge, skills and competencies acquired by students upon completion of the educational program of each level (stage) of higher and postgraduate education as proposed by PVC "National Center of Expertise»in the Kyzylorda region F.I. Kaliyeva introduced in the specialty EP specialty 5B060800-Ecology, 6M060800-Ecology such disciplines as "Essential Radiation Ecology oats», "Analysis of real objects» "Environmental law and management», "Modern environmental standards and documents» of the director of ECO-GUARD LLP K.M. Utegenov were introduced the disciplines» Environmental biotechnology» Environmental protection and biological diversity. «Also for the specialty 5B071800-Power Engineering included educational disciplines "Unconventional and renewable energy sources", for the specialty 6M073100 - Life Safety and Environmental Protection introduced the academic discipline "Climate Change and Green Energy". As a result of the dissertation research of teachers of the department Taimanova S.T., Sydykova G.K., Kurmanbaeva G.B. for students of EP 5B071800 - Electric power industry, the elective discipline "Electrotechnological installations and systems»was introduced. According to the results of dissertation research Baymahanova Z.A. for the specialty 6M073100 - Life Safety and Environmental Protection, "Geoecology and geotechnical technologies" was introduced. The individuality and uniqueness of accredited educational programs lies in their orientation towards the regional labor market, taking into account digitalization, through the presence of elective courses complementing the main disciplines commissioned by employers in the region. At the end of each academic year, the department, taking into account the needs, make an application for the necessary information and other material resources, update the laboratory development programs.

The focus of the EP on the development of professional skills is implemented through continuous monitoring of the quality of teaching updated disciplines and the compliance of learning outcomes with the requirements stated in the graduate models. Starting from the 1st course, students pass special disciplines and various types of practices that form professional competencies. This approach allows you to create a model of a graduate who is competitive in the labor market, aimed at continuous development and self-improvement. Students accredited by the EP, participate in the management of educational programs, discuss the content of the education offered by the university, the minutes of the meeting of the Department of "Electric Power Engineering and Belarusian Railway»No. 8 of March 29, 2019.

***Analytical part***

The strategic plan for 2017-2021 complies with the current legislation of the Republic of Kazakhstan in the field of education and science, strategic and program documents adopted at the republican level. Experts note that teachers, staff and students are knowledgeable about the content of the Strategic Development Plan of the university, aware of their contribution to the implementation of the Strategy. The EEC confirms the existence of plans for the development of educational programs, which allows for the simultaneous development of various educational programs in the context of the Strategic Plan for the development of the university.

The experts were convinced of the coherence of the university's strategic goals, the adequacy of the mission, vision, strategy to the available resources: financial, informational, personnel, material and technical base. The individuality of the development plans of educational programs is due to the close interaction with employers, taking into account the specifics of the region. Within the framework of EP, students are able to construct individual educational trajectories by choosing disciplines taking into account personal preferences and needs of the labor market in the region, as well as managing innovations.

According to the results of the PPP survey:

- 3.1% of faculty members rate the possibility of combining teaching with scientific research "relatively poorly";

- 5.1% of faculty members rate the possibility of combining teaching with applied activity "relatively poorly".

According to the results of the survey, the level of accessibility and responsiveness of the university management is "fully satisfied»- 80.6%, "partially satisfied»- 17.2% of students.

***Strengths / best practice for the EP 5B071800-Electricity, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

- availability of a published quality assurance policy;

- individuality and uniqueness of the EP development plan, its consistency with national development priorities and the development strategy of the organization of education.

- management of innovation in the framework of educational programs.

***EEC recommendations***

- there are no recommendations for this standard

***Conclusions EEC on the criteria for 5B071800-Power, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

***strong - 3, satisfactory - 14, suggest improvements - 0, unsatisfactory – 0***

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

***The evidence part***

The university has implemented information management processes, including collection, analysis and reporting. The implementation of the Development Strategy, the achievement of goals, objectives and an assessment of the effectiveness of decisions made is carried out in accordance with the current internal regulatory documents. According to these procedures, the university collects and analyzes data to assess the performance of activities, determine the degree of fulfillment of the mission, goals and objectives, and opportunities for continuous improvement of the service provided.

To analyze the various spheres of activity, as well as to take concrete measures to improve the performance, collegial bodies set up working groups, which include both employees and students.

The management structure is adjusted to take into account the constantly changing external and internal conditions of activity (changes in the student population, sharp fluctuations in the educational services market, higher costs for the educational process and especially for the introduction of innovations into it, limited financial resources for creating new divisions, increasing staffing and additional labor incentives for teaching staff, etc. In order to improve the collection, processing, storage and efficient use of the entire flow of documents The departments and databases of departments under the accredited EP are designed and implemented automated workplaces, the function of which is performed by the E-Univer system (www.new.korkyt.kz). This system includes such sections as: electronic document management, rector's blog, state services, blogs of heads of departments, IP "Deanat", IP "Department", IP "Teacher", IP "Student", IP "Abiturent",

“Electronic Library”, “Open Educational Resource”, also the university uses the ACS “Platonus». On the university website (www.new.korkyt.kz).Platonus provides complete information on the learning process of each student for the entire period. Records of progress in all disciplines, GPA, orders and announcements are posted. It also provides information on each student, employee and teacher with a search system, reports on various criteria.

Students have access to the resources of the Platonus, E-Univer automated control systems (www.new.korkyt.kz): electronic journal, final grades, messaging, online testing, transcript, IPMS.

Office - recorders along with the departments provide academic support for students. Students are given all the necessary information and reference materials. Throughout the entire training period, advisers and curators provide individual assistance to students.

Information protection is carried out with the help of distinction, according to the functional responsibilities, as well as the use of logins and passwords.

Protected information includes: personal data about students and staff not intended for public disclosure; information on the results of academic performance for persons without access, etc.

Optimal management decisions at the university are made on the basis of the established system for collecting, analyzing and evaluating information on activities, including the following data: key performance indicators (KPI), the structure of the student population in the context of degree of severity and training courses; student progress, their success and the share of expelled students; methods and periodic assessment of student satisfaction with programs and disciplines; periodic assessment of the satisfaction of faculty, staff working conditions, management systems, available resources, etc .; assessment of the availability of resources for training and supporting students; employability of graduates, communication with them, monitoring their careers.

The university has a system for collecting and disseminating information on students' satisfaction with the quality of education: conducting surveys; processing of results; informing department heads on the results of surveys; rating of faculties, departments, faculty.

A survey is conducted annually: “The teacher through the eyes of students”, “Student satisfaction with the quality of education”, “Evaluation of the quality of the educational program by graduates”, etc., in order to study the quality of the services provided. In general, students positively evaluate the activities of teachers and are satisfied with their studies at the university.

Statistical data and information analysis materials obtained as a result of collecting, analyzing and managing information is the basis for ensuring quality management of the EP implementation process, improving the mechanisms for ensuring accessibility to educational resources to all interested parties and the effectiveness of organizing feedback. Feedback forms in the information management system are: virtual reception, which includes the rector's blog, pages in social networks; survey of stakeholders, collective events (conferences, forums, round tables), feedback from employers on the basis of the GAK, GEK, production practices.

Consent to the processing of personal data of employees and faculty is carried out in each case individually. The minimum list of information about teaching staff for the university website is a prerequisite for working at a university.

External control of the effectiveness of the implementation of the objectives of the EP is carried out in the process of the GAK, EOOD, during state certification. The participation of students in the process of planning, implementing, monitoring the activities of the university is carried out through university-wide youth organizations.

One of the current areas of the university's information management process is the collection, storage, and replenishment of statistics on graduates of EP. The statistics of employment of graduates by year of graduation and specialties is maintained by the department of employment, which oversees the organization of the practice of students and the employment of graduates.

Monitoring of students' academic achievements is provided by the Office of the Registrar, the results of which are discussed at meetings of departments, faculties and the Academic Council of the University.

The program in the online mode allows you to broadcast the database on 23 parameters into a unified system of higher education management (ESMS) in the MES RK. Thus, the entire educational document management is carried out by a unique program complex "e-univer".

The participation of trainees is organized in all internal and external quality assurance processes. The department of strategic planning, monitoring and quality management systematically conducts surveys, the results of which update the content of teaching and methodical documentation. Proof of the availability and effectiveness of the system of internal university quality control of training is the use of the Platonus program, which allows students and teachers to view online the results of current, mid-term, intermediate monitoring of student performance online. For the period of the examination session, a public commission is created by the order of the rector from the number of faculty members and students.

For the period of the examination session, a public commission is created by the order of the rector from the number of faculty members and students. According to the results of the intermediate and final control, analytical materials are presented that use tabular and graphical forms that are convenient for decision-making at various levels of educational process management. All results are discussed at the meetings of departments (Minutes No. 8 of 03/29/2016, Minutes No. 8 of 03/29/2017, Minutes No. 8 of 29.03.2018).

In order to identify the degree of mutual information in master's theses without reference to a source in the Korkyt ata KSU, the Antiplagiat system is used. The anti-plagiarism check is carried out by the software department. The module "Information about the university» contains contact information of the heads of the university. The registrar's office allows the module to form extracts from the RUE, individual plans of students, depending on the chosen learning trajectory, etc. Through this module, participants in the educational process are given access to the database of the RUE, CED and ECD on specialties of all forms of training.

The university has an official web site www.new.korkyt.kz in Kazakh, Russian, English languages with modern navigation, which includes information on faculties and departments, quality policy, information on structural subdivisions of the faculty, teachers, competitions, international projects, academic mobility programs. The list of specialties, the deadline for accepting documents and benefits for those entering the university are published in the newspapers SyrBoyi, Kyzylorda News, SyrTulegi, commercials are broadcast on the channels Kyzylorda-Kazakhstan and Kogam TV.

The university has a public association “Alumni Association of Korkyt ata KSU»(www.korkyt.kz). Student performance in an accredited EP is consistently maintained, the quality of knowledge shows a tendency to increase results.

Faculty monitors career growth of graduates. There is a close cooperation with enterprises and organizations of the region, the city department of employment and social programs, there are "job fairs» for graduates.

The university has a marketing department, employment and practice organization, which organizes interaction with organizations of industrial production. In order to monitor and analyze the employment of graduates at the department, every year at the

beginning of the new academic year, communication with former graduates is carried out and full information is presented to the marketing, employment and practice department. There is a journal monitoring the employment of graduates from EP 5B060800 –Ecology; 6M060800 –Ecology; 5B071800 - Electric power industry; 5B073100-Life safety and environmental protection; 6M073100-Life safety and environmental protection, feedback is maintained with graduates of the faculty, the contingent of graduates, suggestions and recommendations from external and internal consumers are taken into account.

Assistance in the employment of graduates have graduating departments and the department of competence development and employment. The departments and the department are engaged in the search for vacancies for employment of graduates, the formation of a database of graduates and employers, the establishment of communication with employers.

According to EP 5B060800-Ecology; 6M060800-Ecology; 5B071800-Electric power industry; 5B073100-Life safety and environmental protection; 6M073100-Life Safety and Environmental Protection The employment rate of graduates over the past 3 years (2015-2016, 2016-2017, 2017-2018 school years) was 90%.

Scientific researches of teaching staff are formed taking into account scientific competence, experience of scientific research work and the material and technical base of the faculty. The university regularly hosts international, republican scientific and practical conferences, in which faculty members and faculty members take an active part, which results in the publication of abstracts, reports and conference materials. All structural divisions of the library are equipped with the necessary library equipment and furniture, computer and copying equipment. With great success, faculty members, doctoral students, undergraduates of the university use in their scientific works the base of such electronic publications as Thomson Reuters, Scopus, SpringerLink, scientific electronic library ELIBRARY.RU, KazNEB, RBEB, library of the First President of RK. The electronic catalog of the library (polytexttextualized books of the fund and articles) is available to users on the Internet through the web module of the library program ;. The disclosure of the contents of the library fund contributes to the reference and search apparatus. Computerization of library and bibliographic processes is carried out on the basis of the automated program "KABIS". The university has an editorial and publishing service, which performs work on the reproduction and provision of educational and methodical literature, printing and printed products. The magazine Khabarshy is published twice a year. The Faculty of Engineering and Ecology, student dormitories and the University's science and technology library are combined into a single corporate network using 9 InfiNET Revolution 5000 radio routers and Alkatel 6850 and 6600 series switches, which made it possible to combine the university's computers into a single information and computing system.

***Analytical part***

According to the analysis of compliance with the criteria of the "Information Management and Reporting»standard for the accredited EP, the commission notes the following: the university has a system for collecting, analyzing and managing information and reporting based on the use of modern information and communication technologies and software. Data is stored in electronic and paper format in accordance with the nomenclature. The university defines the procedure and the provision of information security, including those responsible for the accuracy and timeliness of analyzing information and providing data.

Feedback has been established with the students, which allows to identify their satisfaction with the quality of the EP implemented. In the course of the conversation with the students, they noted that there was an opportunity to address the management with these or other problems. The information collected and analyzed by the university takes

into account: key performance indicators, the dynamics of the contingent of students in the context of forms and types, level of academic achievement, student achievement and deduction, availability of educational resources and support systems for students, employment and career growth of graduates.

During the examination, members of the EEC were not presented with documents confirming their consent to the processing of personal data of students.

According to the results of the questionnaire, 50% responded to the question about the assessment of the involvement of teaching staff in the process of making management and strategic decisions, "good»- 46.9%, "relatively bad»- 3.1%, "bad" - 0%.

***Strengths / best practice for the EP 5B071800-Electricity, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

- functioning of a system for collecting, analyzing and managing information through the use of modern information and communication technologies and software;
- the information collected and analyzed by the university takes into account key performance indicators, the dynamics of the contingent of students in the context of forms and types, level of academic achievement, student achievement and deduction, accessibility of educational resources and support systems for students;
- process of employment and career growth of graduates of educational programs is monitored.

***Recommendation EEC for 5B071800-Electric Power, 5B073100-Vital Safety and Environmental Protection, 6M073100-Vital Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

- to provide coverage for the confirmation of documentary consent to the processing of personal data of all subjects of the educational process.

***Conclusions EEC on the criteria for 5B071800-Power, 5B073100-Life safety and environmental protection, 6M073100-Life safety and environmental protection, 5B060800-Environment, 6M060800-Environment: strong - 6, satisfactory - 10, suggest improvements - 1, unsatisfactory - 0***

## *6.3. Standard "Development and approval of educational programs"*

***The evidence part***

The process of development and approval of accredited EPs is carried out in accordance with the requirements of the SES, internal regulatory documents of the university, model curricula and programs. In the procedure for the development and approval of EP involved faculty departments, faculties, departments, etc. Plans for the development of educational programs were approved at a meeting of the Academic Council of the University No. 1 of 1.09. 2017 Educational programs are designed in such a way as to ensure the integrity of education, a combination of fundamental training with the interdisciplinary nature of the professional activity of a specialist and fully comply with the requirements of SES of higher and postgraduate education. (State compulsory higher education standard of the Minister of Education and Science

Of the Republic of Kazakhstan dated October 31, 2018, No. 604).

Forming educational programs, the university and departments use scientifically based approaches to planning, methodological provision, and training technologies. The main requirements for an accredited EP are to take into account the needs of the labor

market, increase the professional skills and abilities of graduates, their mastery of key and basic competencies necessary for any professional activity.

The development of educational programs is attended by teachers, potential employers, practitioners, heads of practices and students.

When selecting employers to participate in the development of accredited EP, basic education, position, representativeness are taken into account. For example,

F.I. Kaliyeva, director of the branch of RSE on PVC "National Center of Expertise» in the Kyzylorda region, director of ECO-GUARD LLP, K.M. Utegenov, lead energy engineer of PetroKazakhstanKumkolResources JSC, A.Ilyasov and deputy head of the test service and protection against overvoltage and insulation of JSC "KREK»S.L. Niyazov. The quality of educational services is an important and main aspect of the activity of Korkyt ata KSU.

The objectives of the EP are clearly defined based on the requests of the main consumers of the programs, potential employers and are coordinated with the mission of Korkyt ata KSU.

The purpose of EP 5B060800- "Ecology" is the provision of quality education aimed at training highly qualified personnel with practical skills and leadership skills through the introduction of innovative technologies of education and training of competitive environmental specialists into the educational process.

The purpose of EP 5B073100- "Life Safety and Environmental Protection» is to prepare relevant specialists with relevant professional data, knowledge and practical skills, able to lead and make decisions to eliminate and prevent adverse situations.

The purpose of EP 5B071800– "Electric Power Engineering» is to prepare specialists in demand with relevant professional data, knowledge and practical skills, able to lead and make decisions to eliminate and prevent adverse situations.

The evaluation of the quality of educational programs is carried out on the basis of an analysis of curricula, a catalog of elective disciplines, schedules, individual plans of students, internal regulatory documents governing the implementation of educational programs, a survey of students and employers. Statistics show that more than 85% of students and employers are satisfied with the quality of training at Korkyt ata KSU.

External examination of educational programs is carried out by an outside organization (an employing organization, a scientific or educational organization of a corresponding profile). At the final stage, educational programs are discussed and approved at a meeting of the Academic Council with the participation of specialists (Department of Ecology of the Kyzylorda region, RSE at the REU "National Center of Expertise» in Kyzylorda region, ECO-GUARD LLP, JSC Kyzylorda Distribution Grid Company and the State Enterprise «Kyzylorda teploelectro central»).

To provide the EP with the actual content of the department annually carry out their revision. The results of the evaluation of EP are discussed at the meetings of the departments, where decisions are made on measures to ensure the quality of education. For example, during the reporting period, at meetings of the departments, such issues as "On student satisfaction with the quality of educational services" were discussed, at meetings of the SRW of the department - "On the quality of ECD development (syllabs) in the disciplines of the cluster of educational programs" On teaching and methodological support and the quality of professional practice»by students of cluster EP 5B060800 - »Ecology»(protocol No. 5 dated January 14, 2019), and 5B073100 -»Life safety and environmental protection», 5B071800–»Power engineering»(protocol № 2 dated 10.09.2019).

The faculty of the department together with employers develop a model of graduate with a description of professional competencies, which are approved by the SRW of the University (Minutes No. 1 of 08/31/2016)

In the development of EP, special attention is paid to the formation of goals for ensuring the continuity of their content, taking into account the logic of the academic interrelation of disciplines, their consistency and continuity. The sequence of studying disciplines is taken into account in the structure and content of modular educational programs and is built using a system of prerequisites and post requisites.

For example, according to EP 5B060800-Ecology the discipline "Biogeochemistry and ecotoxicology»is the prerequisite of the discipline "The origin and evolution of the biosphere", post-requisite - "Environmental Biotechnology". According to EP 5B073100 - "Life Safety and Environmental Protection" the prerequisite of the course "Life Safety" is "Introduction to the specialty", and the post-requisite is the discipline "Personal Protective Equipment". According to EP 5B071800– "Electric Power Engineering", the prerequisites of the discipline "Electrical Machines" are "Theoretical Foundations of Electrical Engineering»and "Mechanics", while the post requisites are the disciplines "Automated Electric Drive", "Electric Power Stations and Substations»and "Power Supply". From the 2017-2018 school year, there are branches of the Department "Electricity and Life Safety»on the basis of the JSC "Kyzylorda distribution electric grid company»and the State Enterprise "Kyzylordateploelectro center". From the 2018-2019 academic year, the branches of the department in the LLP "ECO-GUARD»and in the Kyzylorda regional branch of the RSE on the PVC "National Center of Expertise»work. For accredited EP, a system of practical training was introduced, in which students study the theory within the walls of the university, and practical classes are held directly at the enterprise. For example, in the study of the disciplines "High Voltage Technique", "Electrical Stations and Substations", "Electrical Safety»and "Electrical Apparatus", laboratory classes are actually held at the industrial base of KREC according to the training schedule.

The content of the standard plan and the catalog of elective courses, compliance with the academic calendar allow you to determine the individual trajectory of students for each academic year. Students form an individual educational trajectory based on the entry into the elective disciplines of the specialty and participate in the development of an individual curriculum. For example, QED under EP 5B060800-Ecology for the 2015-2016 academic year was approved at the meeting of the department on March 19, 2015 (Minutes No. 8), the 2016-2017 academic year March 30, 2016 (Minutes No. 8), for 2017-2018 academic year February 23, 2017 (Minutes No. 7). QED for EP 5B073100 – Life Safety and Environmental Protection for the 2015-2016 academic year was approved at the meeting of the department on March 17, 2015 (Minutes No. 7), 2016-2017 academic year March 17, 2016 (Minutes No. 7), on 2017-2018 academic year 29.03. 2017 (Minutes No. 8). According to EP 5B071800 – Electric Power Industry», the 2015-2016 academic year was approved at the meeting of the department on March 31, 2015 (Minutes No. 8), the 2016-2017 academic year March 31, 2016 (Minutes No. 8), for the 2017-2018 academic year March 29 . 2017 (Minutes No. 8).

Working curricula, catalogs of elective disciplines, additional curricula are reviewed annually. Employers take part in defining additional study programs and elective disciplines. The department conducted a survey of employers, database managers, students, working graduates to determine the content of additional EP. QED disciplines are preferred to practice-oriented disciplines. For example, based on the results of a survey of interested persons, it was recommended to include the following elective disciplines "Protection of the environment and biological diversity", "Ecology of microorganisms" in EP 5B060800-Ecologists. These disciplines are included in the QED 2017-2018 academic year (protocol No. 8 dated March 6, 2017), according to EP 5B073100 - 5B071800-Electric Power Engineering "disciplines: High Voltage Technique", "Electrical Stations and Substations", "Electrical Safety»and "Electrical apparatuses»and according to EP 5B073100

- Life Safety and Environmental Protection" discipline: "Geoecology and geotechnical technologies" (protocol No. 9 of 03/15/2017)

The research activity of the faculty is the basis of the quality of the educational process, it is used in the development of elective disciplines, SRWS, etc. As a result of the research activities of the teaching staff in the educational process of EP 5B071800-Power, 5B073100 - Life Safety and Environmental Protection introduced new elective disciplines. As a result of the dissertation research of the teachers of the department S.T.Taimanov, G.K.Sydykova, G.B.Kurmanbaeva for students of the EP 5B071800 - Power industry, the elective discipline "Electrotechnological installations and systems»was introduced. According to the results of the dissertation research of Z. A. Baymakhanova for the specialty 6M073100 - Life Safety and Environmental Protection, "Geoecology and geotechnical technologies" were introduced. As a result of research activities of the teaching staff in the educational process EP5B060800 - Ecology; 6M060800-Ecology introduced new elective disciplines in accordance with the following research projects on the theme "Development of multi-enzyme biosensors based on polymer nanomaterial", "Development of a concept for monitoring oil-polluted soils of the Aral Sea region and technologies for their purification using new biological products", Granular Porous Thermal Insulation Technology material based on the processing of clay rocks in the composition of sludge-sand sand ",»An innovative approach to jointly the processing of solid and liquid waste into adsorbents for wastewater treatment, the processing of oily waste using innovative technology, the manufacture of an experimental instrument-analyzer with polymer enzyme sensors to identify two metabolites in biological fluids, introduced elective environmental biotechnology.

One of the important aspects of the quality of the educational environment is the creation of conditions for the implementation of research projects and projects by students and teaching staff of the EP. The structure of the Korkyt ata KSU, as noted above, includes the Laboratory of Engineering Profile "Physical and Chemical Methods of Analysis", located in educational building No. 5, an agrobiological site with a hothouse, and a meteorological station. These units have modern equipment that creates conditions for the implementation of research and development at the university level and scientific projects of the MES RK.

The ECTS credits are used as the conventional unit of laboriousness of the study program. These credits are tied to the degree of the profile, to the learning outcomes, to the competence, to the academic load of students, and also include the achievement of learning outcomes in the assessment procedure. The transfer of credits according to the ECTS type is carried out in accordance with the "Provision on the system of credit transfer by the type of ECTS at Korkyt ata KSU».

The bases of professional practices of accredited EPs are determined by the presence of highly qualified specialists who are able to provide guidance for the practice on the part of the university and the employer, as well as taking into account the material and technical equipment of the institutions. Production practices are held in the enterprises of JSC Kyzylorda Distribution Energy Company, the state enterprise Kyzylorda teploelectrocenter, JSC Kentau Transformer Plant, the Kyzylorda regional branch of RSE on the RZhP National Center of Expertise, ECO GUARD. Between the university and the above-mentioned enterprises signed a memorandum of cooperation.

***Analytical part***

As a result of studying the standard "Development and approval of the educational program", the commission came to the conclusion that, according to the accredited areas, the content and logic of the construction of educational programs are disclosed, and the process of vocational training of students in the framework of EP is described. Curricula

provide a logical sequence of study of disciplines based on continuity, the rational distribution of disciplines by semester from the standpoint of the uniformity of the student's academic work; active use of personnel and material and technical potential of all departments. The participation of stakeholders in the development of educational programs was demonstrated, the model of the graduate was developed, the structure of the educational program based on the modular organization of educational content was disclosed. Describes the various activities, the content of which contributes to the formation of professional competence of students. The representativeness of attracting employers to participate in the design and implementation of EP is substantiated. The department has educational and methodical complexes of specialty (EMCS), educational and methodical complexes of disciplines (EMCD), syllabuses and a catalog of elective disciplines. The management of EP determines the influence of disciplines and professional practices on the formation of learning outcomes.

Experts note that in order to organize joint and double-diploma education within the framework of accreditation EPs, it is necessary to expand the policy of cooperation with universities of the near and far abroad, public educational organizations and scientific centers. The Commission points out the lack of cooperation in this matter with educational programs of foreign universities, as well as the need to expand the practice of conducting external examinations of the EP.

A survey of students, conducted during the visit of the EAP NAAR, showed that:

- the level of responsiveness to feedback from teachers regarding the educational process fully satisfies - 81.7%; partially - 18.3%; partially dissatisfied - 0%.

***Strengths / best practice***

- The university determines and documents the procedures for the development of EPs and their approval at the institutional level;
- EP management ensures compliance of the developed EP with established goals, including the expected learning outcomes;
- the qualification obtained at the end of the EP is clearly defined, explained and corresponds to a certain level of the NSC;
- The management of EP determines the influence of disciplines and professional practices on the formation of learning outcomes.

***Recommendations EEC for 5B071800-Power, 5B073100-Health and environmental protection, 6M073100-Health and environmental protection, 5B060800-Ecology, 6M060800-Ecology:***

- consider the possibility of participation of foreign and domestic universities in the development of joint EP.
- consider the practice of conducting external examinations on the EP.

***Conclusions EEC on the criteria for 5B071800-Power, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

***strong - 4, satisfactory - 6, suggest improvements - 2, unsatisfactory - 0.***

## *6.4 Standard "Continuous monitoring and periodic evaluation of educational programs"*

***The evidence part***

In order to improve the EP, to ensure the achievement of the goal of the EP and to meet the needs of students and society, the University regularly monitors and periodically evaluates. Ensuring and continuous improvement of the quality of educational programs is the most important task of the departments, faculty and the university as a whole. On the basis of the departments, monitoring and periodic evaluation of educational programs are carried out in the following specialties 5B071800 - Electric power industry, 5B073100 - Life safety and environmental protection, 6M073100 - Life safety and environmental protection, 5B060800-Ecology, 6M060800-Ecology. An important element of the system for ensuring the high level of training of students is the regular monitoring and periodic evaluation of the EP, which is carried out through questionnaires.

Constant monitoring and periodic assessment of the accredited EP is carried out taking into account the proposals of the teaching staff of the department, employers, students, chairmen of the SSC. Constant monitoring is carried out on the basis of the work plan of the department of strategic planning, monitoring and quality management for the relevant academic year, which is approved by the Vice-Rector for Academic Affairs - the first Vice-Rector of Korkyt ata KSU.

Processing of accredited EPs is carried out in connection with changes in regulatory documents of the MES RK, the introduction of new directions and elective courses. EP renewal is made in accordance with the requests of employers, which is reflected in the coordination of the catalog of elective disciplines for the corresponding academic year.

Monitoring and periodic assessment of the study program are reflected in the minutes of the department meetings (protocol No. 5, dated November 23, 2018, No. 7, dated January 25, 2019). The department monitors and periodically evaluates the study program in order to achieve the goal and meet the needs of students and of society. The results of these processes are aimed at continuous improvement of the EP.

In order to determine the level of students 'satisfaction with the learning outcomes of the analytical group of the Strategic Planning, Monitoring and Management Department, a sociological survey “Students' satisfaction with the quality of instruction at the university” is regularly conducted, as well as questioning students of EP 5B071800 - Power Industry, 5B073100 - Life Safety and Environmental Protection, 6M073100 - Safety vital activity and environmental protection, 5B060800-Ecology, 6M060800-Ecology. The results of recent surveys showed that a significant majority of students who took part in the survey, are mostly satisfied with the learning outcomes and highly appreciate the faculty staff of the university. Both from the point of view of personal qualities and professional, the majority of teachers were characterized by respondents on the positive side.

The professional activity of graduates of accredited EP assumes a level of knowledge of physical, chemical, environmental and energy processes that would allow them to master the laws of environmental protection, traditional and alternative energy sources, life safety and labor protection, but also be ready to understand their development prospects, it is advisable so change the content and structure of the learning process to ensure the integrated implementation of these requirements. As a means of achieving the stated goal, it is quite natural to use interdisciplinary and objective integration within the training.

EP testing is carried out in accordance with the EP monitoring methodology, which includes: interviewing, interviewing applicants, students, graduates, teachers, employer organizations; student performance; information support of the educational process, resource and information support of EP; analysis of the student assessment system; assessment of the level of competence of research; the degree of compliance with the EP requirements.

The renewal of the educational program is carried out in accordance with the requests of employers, which is reflected in the catalog of elective disciplines for the

corresponding academic year and is approved by the Academic Council for the direction of the accredited EPs. In order to meet the needs of various groups of students, the EP includes elective disciplines necessary in the course of future work. So, for students of EP 5B060800-Ecology, elective courses “Waste storage, processing and recycling”, “Ecology and human health” were introduced. The educational program is updated in connection with the change of state compulsory standards of higher and postgraduate education, the introduction of new directions and elective courses.

For the implementation of educational programs at the departments developed: academic calendar, catalog of elective disciplines (CED), working curricula (WC), modular educational programs (MEP), individual curricula (IC), working educational programs (WEP), educational and methodical complex specialty (EMCS), educational complex of the discipline (ECD) (www.new.korkyt.kz).

The implementation of educational programs in the field is carried out in accordance with the mission and strategy of the department (www.new.korkyt.kz), taking into account the level of development of science and the conditions offered by reality.

Educational programs are systematically updated taking into account the interests of employers and students. Monitoring of educational programs is carried out by conducting a survey of students. The quality of educational programs is indicated by the statistics of employment of graduates of the department. The Department of Strategic Planning, Monitoring and Quality Management monitors the quality of graduates' training in the form of questionnaires and surveys of employers, allowing them to have feedback from employers on the basis of objective and independent information in order to determine the tasks for the further development of the university . 75% of the employers surveyed noted that the training of graduates of Korkyt ata KSU corresponds to the modern level of production development; 25% believe that does not fully comply.

***Analytical part***

The EEC confirms that the university continuously monitors, periodically evaluates and revises educational programs for the effective implementation of the educational process and is working to create a favorable learning environment for students. Monitoring and periodic evaluation of the study program examines: the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the discipline being taught; workload, performance and graduation of students.

Employers are involved in the process of designing, developing and implementing, as well as revising the EP taking into account the labor market and the social demand of society, for conducting classes, reviewing graduation projects, are members of the state attestation commission.

The university annually participates in the EACS conducted by the MES of the RK among graduate students. The EAS is a mandatory procedure and includes independent testing of students in 4 specialized disciplines.

According to the results of the survey, the level of accessibility of students' guidance was rated as “very good” by 48%, “good»by 50% of students. The availability of teachers' guidance was rated as “very good” by 55.1%, “good»- 36.7% of teaching staff.

***Strengths / best practice for the EP 5B071800-Electricity, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Environment, 6M060800-Environment:***

- regular monitoring and periodic evaluation of EP take into account the workload, performance and graduation of students;
- revision of the content and structure of the EP in view of changes in the labor market, the requirements of employers and the social demand of society.

***EEC recommendations***

- there are no recommendations for this standard

***Conclusions EEC on the criteria for 5B071800-Power, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

***strong - 3, satisfactory - 7, suggest improvements - 0, unsatisfactory - 0.***

## *6.5. Standard "Student-centered learning, teaching and assessment of progress"*

***The evidence part***

The management of the accredited EP provides opportunities for students, regardless of the language of instruction, to form an individual educational trajectory. Accounting for individual characteristics, needs and cultural experience of students is carried out in various aspects of scientific and educational activities: in the selection of elective courses; when choosing a practice base; with the participation of students in research work.

Individual educational trajectory is reflected in the modular educational programs, working curricula and individual curricula, where, along with the general educational, basic disciplines of the compulsory component, there are elective courses and various types of practices that are aimed at ensuring professional competencies.

In order to master an appropriate level of education, the student is obliged to complete his individual training plan (ITP), gaining the required number of credits. Academic support for students is provided by advisors. When choosing elective disciplines, when compiling ITP, s, advisors advise students, and also provide a Handbook-Guide — the main information source serving the purpose of quick adaptation of students and undergraduates to the educational environment. The faculty of the department are developing in the field of teaching disciplines.

In the learning process, teaching staff use innovative teaching methods in the form of business and role-playing games, simulation trainings, discussions, brainstorming, situational tasks, and slide show design. Practicing is the presentation of training courses with the use of interactive whiteboards, multimedia projectors, the use of video equipment in the classroom. When conducting seminars, faculty makes active use of monitoring and teaching technologies, electronic textbooks. Such educational methods as imitational training, case-implementation of term papers, modular learning technologies, interactive posters and presentations are being introduced into the educational process. So, teacher EP 5B060800 - Ecology Ph.D., Art. teacher Togyzbaeva N.A. (01.18.2019) held a practical lesson using the elements of interactive technology in group E-16-1 on the subject “Ecological biotechnology»on the topic: “Bioenergy and biogas” according to EP 5B073100 - Life Safety and Environmental Protection environment senior lecturer Nurzhanova D. (06.03.2019g.) in the EE-15-1 group open lecture on the subject “Occupational safety and health and safety” on the topic: “Emergency situations of a natural nature”, on EP 5B073100 - “Life safety and protection ambient by professor Sarabekova U.ZH. held an open lecture lesson on the subject "Industrial Sanitation»on the topic "Sanitary protective zones. Protection against harmful substances in the atmosphere "in the BZh-17-1 group (08.10.2018), according to EP 5B071800 -»Power Engineering "Magister Tolegenkyzy U. conducted a laboratory lesson on the subject»Industrial Electronics "on the innovative technology»Lesson Study "on the topic “Amplifiers on bipolar transistors»in the EE-17-1 group (03/19/2019).

The university has a feedback support system for students, including the prompt submission of information on the results of the assessment of students' knowledge. Monitoring and questionnaires are an effective means of feedback for students, the university also has boxes for letters and suggestions, and the feedback functions are carried out by the Rules of the learning process, allowing each student to receive advice, work with the teacher in IWST mode and try to improve their current and final certification.

The principle of feedback has been implemented; sociological surveys and monitoring of students' social well-being and teaching staff are conducted. Also, feedback forms are a virtual reception room, which includes the blog of the rector, pages in social networks (www.new.korkyt.kz).

Monitoring of training and independent work of students accredited EP is carried out through the current, intermediate and final controls. The current control of students' knowledge is carried out within the framework of a point-rating system of assessment for all types of classroom (lectures, seminars, practical classes) and extracurricular classes.

In accordance with the curriculum, students pass these types of examinations in the process of continuous monitoring: oral questions, midterm, integral control, round table, laboratory work, open and closed tests, etc.

All necessary information about the assessment procedure, including the intermediate certification in the form of an exam, routine control, GPA score, is brought to the students by posting information on the site, by issuing reference guides, adviser hours (www.new.korkyt.kz) ..

Final control is carried out according to the SES, academic calendar and curriculum in the form of an exam. When organizing and conducting professional practices, the main teaching and methodological documentation is considered to be the following: practice programs, contracts with practice bases in accordance with the specialty, orders for assigning students to them.

Based on the results of all types of practices, final conferences are held, where the leaders of the practices submit a report on the work done, listen to the opinions of students about the place of practice. The satisfaction of employers with the level of preparation of students during the internship period is discussed at working meetings of enterprises and educational organizations. During the reporting period, the passage of industrial practices from 18.02.-22.03.2019g. Students of EP 5B060800- Ecology.,NurmakhanovA.Ospan A. Nurmuhamedov B. received letters of thanks from the Director of the Department of Ecology for the Kyzylorda region.

For the continuous advancement of students, personal growth and development of the student in the process of mastering the accredited EP various events are held. In order to meet the educational, professional, spiritual and moral, cultural and ethical needs of students in the department of "Ecology and chemical technology»a student scientific circle "ECOLife»operates. At the department "Electric power engineering and life safety»there are student research circles "Energetic»and "Life Safety".

Students of the accredited EP annually participate in subject Olympiads, in republican and regional competitions and win prizes. For example, student E-17-1 Kappar E. was awarded a diploma □□ degree as a participant in the project of the international encyclopedia of talented youth in the framework of the contest “The Best Student - 2019»among educational institutions of the CIS, a 2nd year student of the specialty 5B073100 - “Life Safety and protection of the environment»MustatKuanysh was awarded the medal of the Alliance of Students of Kazakhstan“ ErenEnbegiUshin»for active participation in the socio-political and scientific life of the university.

The Korkyt ata Kyzylorda State University actively operates the student government system: Alliance of Student Youth, Students Union, Akikat Debate Club founded in 2000,

Zhaukazin, KyzZhibek Club, Ulagat Youth Organization; Zhaidarman Club, Zerde Intellectual Organization, Dream Club, student councils and deans.

Students and undergraduates of accredited EPs are actively involved in the management of the university. Thus, the Academic Councils in the areas of specialist training, the public commission included representatives of the student community from among student activists: students of the specialty "Ecology»Kapbar E., Otegen L., Abzhami A., Irzakul N., Appazova S. students of the specialty "Life Safety and Environmental Protection»and "Electric Power Engineering»Mastbat K., Aktileu A., Zhumahan N., Tolepbergen A.

***Analytical part***

Analyzing the standard "Student-centered education, teaching and assessment of progress»in accredited areas, the commission came to the conclusion that, in the framework of EP, modern pedagogical technologies, methods and techniques for using such technologies as learning, cooperation, using multimedia technologies, the Internet are observed resources that help implement a student-centered approach to learning, provide for the individualization and differentiation of learning, taking into account the way students There are feedback systems on the use of various teaching methods and evaluation of learning outcomes. The university provides consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each EP, as well as appeal.

The results of the survey of employers, in turn, indicate a good theoretical preparation of graduates of an accredited EP, the ability to apply their knowledge and skills in practice. This is the basis of the growing demand for graduates of the specialty in the regional labor market.

***Strengths / best practice for the EP 5B071800-Electricity, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

- application in the learning process of innovative learning technologies, allowing to enhance the cognitive activity of students;
- availability of a feedback system on the use of various teaching methods and assessment of learning outcomes;
- consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each EP.

***EEC recommendations***

- there are no recommendations for this standard

***Conclusions EEC on the criteria for 5B071800-Power, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

***strong - 3, satisfactory - 7, suggest improvements - 0, unsatisfactory – 0***

## *6.6. Standard "Students"*

***The evidence part***

The policy of forming a contingent of students of accredited EP includes vocational guidance work in schools and organizations of Kyzylorda and the region, also by regions of the Republic of Kazakhstan during the year, the direct work of the university admissions

committee in the summer, movement control of the contingent in the process of education and graduation.

Students are admitted to the University on the basis of the Model Rules for Admission to Educational Establishments Implementing Educational Programs of Higher Education (approved by the Decree of the Government of the Republic of Kazakhstan No. 111 dated January 19, 2012, changes and additions are made by the Decree of the Government of the Republic of Kazakhstan dated June 8, 2018 No. 334 ) and the Rules of awarding an educational grant to pay for higher education (approved by the Government of the Republic of Kazakhstan on January 23, 2008 N 58).

The contingent of students on the EP 5B071800-Power, 5B073100-Life safety and environmental protection and 5B060800-Ecology are distributed according to the following forms of training: full-time undergraduate (4 years), full-time undergraduate (3 years.), Part-time undergraduate (4 years) , correspondence bachelor degree on the basis of HE (2 years).

| **5B071800-Electric PowerIndustry** | | **2014-2015** | **2015-2016** | **2016-2017** | **2017-2018** | **2018-2019** |
|---|---|---|---|---|---|---|
| Reception | **total** | **42** | **27** | **49** | **30** | **63** |
| | full-time | 27 | 12 | 28 | 24 | 20 |
| | correspondence | 15 | | | | |
| | TO | | 15 | 21 | 6 | 43 |
| Expelled | **total** | **4** | **1** | **1** | **3** | |
| | full-time | 4 | 1 | 1 | 3 | |
| | correspondence | | | | | |
| | TO | | | | | |
| Release | **total** | **42** | **16** | **51** | **38** | |
| | full-time | 40 | 10 | 36 | 25 | |
| | correspondence | | 6 | 7 | | |
| | TO | 2 | | 8 | 13 | |
| Number of educational grant holders / paid training | **total** | **9/122** | **8/111** | **8/143** | **4/121** | **16/134** |
| | full-time | 9/105 | 8/78 | 8/97 | 4/84 | 16/66 |
| | correspondence | -/15 | -/14 | -/7 | | |
| | TO | -/2 | -/19 | -/39 | -/37 | -/68 |
| foreignstudents | **total** | | | | **1** | **1** |
| | full-time | | | | 1 | 1 |
| | correspondence | | | | | |
| | TO | | | | | |

| **5B073100-Life Safety and Environmental Protection** | | **2014-2015** | **2015-2016** | **2016-2017** | **2017-2018** | **2018-2019** |
|---|---|---|---|---|---|---|
| Reception | **total** | **25** | **19** | **9** | **8** | **25** |
| | full-time | 15 | 13 | 7 | 7 | 12 |
| | correspondence | 10 | 6 | | | |
| | ДО | | | 2 | 1 | 13 |
| Expelled | **total** | **3** | **1** | | | |
| | full-time | 3 | 1 | | | |
| | correspondence | | | | | |
| | TO | | | | | |
| Release | **total** | **31** | **19** | **17** | **13** | |
| | full-time | 31 | 10 | 11 | 10 | |
| | correspondence | | 9 | 6 | 1 | |
| | TO | | | | 2 | |
| Number of educational grant holders / paid training | **total** | **10/67** | **6/58** | **5/46** | **4/45** | **4/53** |
| | full-time | 10/57 | 6/41 | 5/38 | 1/41 | 4/39 |
| | correspondence | -/10 | -/17 | -/6 | -/1 | |
| | TO | | | -/2 | -/3 | -/14 |

| | | | | | | |
|---|---|---|---|---|---|---|
| foreignstudents | **total** | | | | | |
| | full-time | | | | | |
| | correspondence | | | | | |
| | TO | | | | | |

| **5B060800-Ecology** | | **2014-2015** | **2015-2016** | **2016-2017** | **2017-2018** | **2018-2019** |
|---|---|---|---|---|---|---|
| Reception | **total** | **16** | **11** | **10** | **6** | **17** |
| | full-time | 16 | 11 | 8 | 6 | 13 |
| | correspondence | | | | | |
| | TO | | | 2 | | 4 |
| Expelled | **total** | **2** | | **2** | | |
| | full-time | 2 | | 2 | | |
| | correspondence | | | | | |
| | TO | | | | | |
| Release | **total** | **17** | **7** | **11** | **15** | |
| | full-time | 17 | 7 | 11 | 15 | |
| | correspondence | | | | | |
| | TO | | | | | |
| Number of educational grant holders / paid training | **total** | **4/48** | **3/40** | **2/45** | **1/39** | **9/33** |
| | full-time | 4/48 | 3/40 | 2/43 | 1/37 | 9/27 |
| | correspondence | | | | | |
| | TO | | | -/2 | -/2 | -/6 |
| foreignstudents | **total** | | | | | |
| | full-time | | | | | |
| | correspondence | | | | | |
| | TO | | | | | |

| **6M060800 - Ecology** | | **2014-2015** | **2015-2016** | **2016-2017** | **2017-2018** | **2018-2019** |
|---|---|---|---|---|---|---|
| Reception | **total** | 5 | 4 | 3 | 5 | 1 |
| Expelled | **total** | | | | | |
| Release | **total** | 4 | 5 | 4 | 3 | 5 |
| Number of educational grant holders / paid training | **total** | 9/- | 9/- | 7/- | 8/- | 6/- |
| foreignstudents | **total** | | | | | |

| **6M060800 – Ecology** | | **2014-2015** | **2015-2016** | **2016-2017** | **2017-2018** | **2018-2019** |
|---|---|---|---|---|---|---|
| Reception | **total** | | | | | 1 |
| Expelled | **total** | | | | | |
| Release | **total** | | | | | 1 |
| Number of educational grant holders / paid training | **total** | | | | | -/1 |
| foreignstudents | **total** | | | | | |

| **6M073100 *-Life Safety and Environmental Protection*** | | **2014-2015** | **2015-2016** | **2016-2017** | **2017-2018** | **2018-2019** |
|---|---|---|---|---|---|---|
| Reception | **total** | 6 | 9 | 5 | 5 | - |
| Expelled | **total** | | | | | |
| Release | **total** | 4 | 6 | 9 | 5 | 5 |
| Number of educational grant holders / paid training | **total** | 10/- | 11/4 | 10/4 | 9/1 | 4/1 |
| foreignstudents | **total** | | | | | |

| **6M073100 - *Life Safety and Environmental Protection*** | | **2014-2015** | **2015-2016** | **2016-2017** | **2017-2018** | **2018-2019** |
|---|---|---|---|---|---|---|
| Reception | **total** | | | | | 1 |
| Expelled | **total** | | | | | |
| Release | **total** | | | | | 1 |
| Number of educational grant holders / paid training | **total** | | | | | -/1 |
| foreignstudents | **total** | | | | | |

At the beginning of the school year, faculty and faculty faculty conducts an introductory course for first-year students, containing information about the organization of education and the specifics of educational programs. The students are introduced to the organization of the educational process, the content of the EP, the methods of performing independent work, forms of final control and educational achievements. With first-year students a series of training sessions on the adaptation of students to the educational process of the university is held.

Monitoring of academic achievements of students is carried out on the basis of current, intermediate and final control, the implementation and protection of theses, the results of professional practices. According to the results of the discussion of the results of monitoring at the department, decisions are made depending on the nature of the issues and problems arising in the process of mastering the EP.

Students are involved in NIRS, which is expressed in participation in scientific conferences, competitions, etc.

According to EP 5B071800-Electric Power Industry Shadaev Backbergen took 3rd place in the Republican subject Olympiad, 2016, AUPET, Almaty. Zhusip Assiya took part in the XX International Student Scientific Conference and won the second prize, 2016, KazNAU, Almaty. Ondashev Nurbol participated in the Republican competition in the section "Wiring", 2017, Astana.

According to EP 5B073100 - Life Safety and Environmental Protection: Elibayev Birzhan - 3rd place in the Republican subject Olympiad, 2016, Karaganda. Tolegen Ayim - 3rd place in the Republican subject Olympiad, 2017, Karaganda. Kenes Zhanar took 2nd place at the XVIII scientific-practical conference of the Small Academy of Sciences of the Republic of Kazakhstan "The integration of education and science - a step into the future", 2017, Pavlodar.

The management of EP develops international cooperation, and also concludes agreements with foreign universities for the passage of programs of academic mobility of students. At present, educational programs are implemented in cooperation with universities and organizations on the basis of university contracts in the framework of the EP of the Department "Electric Power Engineering and Life Safety".

As part of the agreement on EP 5B071800 - Electric Power Engineering by order No. 2405-C of 09/08/2017, a 2 nd year student, Abdimulik Makauiya Abdibekuly, was sent to the Kazakh National Agrarian University for academic mobility programs (07.09.2017-29.12.2017). According to the agreement of 09.10.2012 with the University of Lodz (Republic of Poland, Lodz), a 4th year student Marat Dyar (01.10.2018-17.02.2019) was sent to study under the programs of academic mobility.

According to EP 6M073100 - “Life Safety and Environmental Protection” in the 2017-2018 academic year according to the agreement dated 09.10.2012 with the University of

Lodz (Poland, Lodz), the undergraduate Beleli Tleuliev was sent to study according to academic mobility programs (29.09 .2017-18.02.2018)

According to the agreement with Sh. Ualihanov Kokshetau State University and Order No. 152 of the Ministry of Education and Science of the Republic of Kazakhstan dated April 20, 2011, students Muzhit Aizat Berikkyzy and Mutalipov Orazkali Nurgaliyly underwent a program of academic mobility in the second academic period of the 2017-2018 academic year. According to the order in the second academic period of 2015-2016, with the program of academic mobility, student Berkinnay Nurgul Berkienbaiy was sent to the S.Seifullin Kazakh Agrotechnical University.

In the 2016-2017 academic year, according to the academic mobility program for one semester in KazNPU named after Abai, 1-year student of the 6M060800-Ecology specialty TimurlanAisulu traveled.

Currently, educational programs are being implemented in cooperation with universities and organizations on the basis of university contracts within the framework of the EP of the Department "Ecology and Chemical Technologies". According to the agreement of the provision of services under the program of academic mobility of students with JSC "Almaty Technological University", a student of 3 courses, AkbotaSerikkyzy was sent to study on programs of academic mobility from 16.01.2018 according to EP 5B060800-Ecology. In the 2018-2019 academic year in the period from 1.10.2018 to 17.02.2019.Undergraduate of the 2nd course of group E-17-1m in the specialty 6M060800-Ecology Baynazarova Saltanat Rysymbekkyzy (Lodz, Poland).

Students who have confirmed the mastery of the relevant professional curriculum of higher education are issued a state diploma with an application in three languages: Kazakh, Russian and English.

The departments of "Electric Power Engineering and Belarusian Railway", "Ecology and Chemical Technologies»systematically search for organizations interested in graduates, assist in sending students to practice in organizations with subsequent employment, send letters to potential employers with proposals for continued cooperation. Students of the department annually participate in city job fairs, which are organized by inviting potential employers. The department maintains relations with large enterprises, organizations and institutions of the Kyzylorda region and other regions of Kazakhstan (including schools of the city and region, city and district education departments) by providing information about graduates, identifying vacancies in the labor market, holding job fairs, regular meetings with potential employers.

Feedback is achieved through social networks, in particular, a large response from students is currently received by the university from Instagram, WhatsApp, as well as through the official website. In addition, students are surveyed to assess the quality of teaching and the level of teaching staff.

In order to support gifted students, the LL administration involves students in the scientific work of the department using circle and individual forms. Formed a system of motivation to attract students to research. Students who won in the university competitions of research works, student conferences, competitions, round tables, etc. awarded diplomas, certificates, letters of thanks and valuable gifts.

The best students are sent to participate in regional, republican and international competitions, competitions and conferences. One of the main criteria for awarding students scholarships is to achieve research.

***Analytical part***

The university’s policy of contingent formation complies with the legislation of the Republic of Kazakhstan. To promote accredited programs, the university conducts career

guidance, attracts graduates (open day, round tables). The EP's management conducts special adaptation and support programs for incoming and foreign students.

The university provides the graduates with a certificate of qualification, regularly monitors the employment and professional activities of graduates.

In the course of interviewing the students, the EEC members determined that the university created

conditions for supporting gifted students by providing discounts, grants for training, stimulating creative activity.

When interviewing, graduates noted that the university has an Alumni Association, but did not indicate the structure and main activities of the Alumni Association.

As a result of the survey, the availability of academic counseling was completely satisfied (86%); accessibility of health services (66.7%); availability of library resources (92.5%); existing learning resources (84.9%); general quality of curricula (87.1%); the ratio between student and teacher (84.9%).

***Strengths / best practice for the EP 5B071800-Electricity, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

- the policy of forming a contingent of students from admission to graduation and ensures the transparency of its procedures;
- special adaptation and support programs for applicants and foreign students;
- The presence in the university of the service of employment of graduates;
- support by the leadership of the university gifted students.
- providing 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.

***Recommendations EEC for the EP 5B071800-Power, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

- carry out work on informing the work of the Alumni Association and improve the efficiency of its work.

***Conclusions EEC on the criteria for 5B071800-Power, 5V073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

***strong - 6, satisfactory - 5, suggest improvements - 1, unsatisfactory - 0***

## *6.7. Standard "Faculty"*

***The evidence part***

The main human resource of the university associated with the implementation of the educational and scientific process is human resources as the integration of personal resources of faculty members (faculty) and management personnel (representatives of the university administration, departments, departments).

Effective personnel management and mobilization of the team for future development are reflected in the Development Strategy of Korkyt ata KSU for 2017-2021, the Academic policy of the university.

Ways and methods of formation and development of personnel potential are determined by the personnel policy of the university.

The personnel policy ofKorkyt ata KSU is an integral part of the university's strategic policy, designed to bring human resources in line with the mission and goals of the university.

**Quantitative and qualitative composition of PPP**

| **Graduatedepartment** | **Averageage** | **Total PPS** | **Amount State. PPS** | **PPS withscientificdegrees** | | | |
|---|---|---|---|---|---|---|---|
| | | | | **Total** | **Doctors ofSciences** | **CandidatesofSciences** | **% degrees** |
| Department of Ecology and CT | 42 | 13 | 10 | 8 | - | 8 | 62% |

| **Graduatedepartment** | **Averageage** | **Total PPS** | **Amount State. PPS** | **PPS withscientificdegrees** | | | |
|---|---|---|---|---|---|---|---|
| | | | | **Total** | **Doctors ofSciences** | **CandidatesofSciences** | **% degrees** |
| The Department "Power and BZ" | 45 | 16 | 16 | 9 | - | 9 | 56% |

The management of the accredited EPs demonstrates the compliance of the staff potential of the faculty with the development strategy of the university and the plans for the development of educational programs. PPP EP is formed in accordance with the EP Development Plan. The staff of teachers serving the EP for the reporting period is 100%.

The university has developed a policy for staff development, procedures for ensuring the quality of teaching and maintaining professional standards and ethics, defined criteria for the systematic evaluation of the teaching staff. Given the opportunities for the development of scientific activity and advanced training of teaching staff. Various forms and methods of advanced training are used: courses, seminars, workshops, conferences, trainings, corporate schools, mentoring, distance learning, webinars, internships, etc. For the teaching staff, plans are being developed for each year. Information on the qualifications of teaching staff is partially posted on the E-Univer website (www.korkyt.kz).

Teachers of the department "Ecology and chemical technologies»Appazov N.O., Turmanov R.A. In January 2017, an industrial safety course was held under the program "Training in the storage, use, disposal of poisons". In addition, 5 teachers of the department "Ecology and Chemical Technology»Zhusupova L.A., DarmagambetK.Kh., AskarovaG.Sh., Tulegenova G.A., Turmanov R.A. in April 2017, they took part in the seminar "Practical Aspects of Commercialization of Scientific Projects". In April 2017, the teacher Appazov N.O. He completed an internship at the Novosibirsk National State Research University, the Institute of Organic and Physical Chemistry named after Arbuzov, St. Petersburg State Technical University, and in the laboratory of green chemistry, the Faculty of Science and Technology, New University of Lisbon. In 2015-2018 academic years, according to the advanced training programs for teachers of pedagogical specialties of higher educational institutions of the Republic of Kazakhstan, organized by the National Center for Advanced Training Orleu, 6 teachers of the department completed advanced training courses. Teachers of the department "Electric power engineering and life safety»Yermukhanova NB, Asanova G.ZH., Nurzhanova D.B., Tashimova A.A. were trained in JSC "National Center for

Advanced Studies»Orleu "(Almaty), Sydykova G.K. and Kalybaeva A.K. trained at ISER Technical Institute in Porto (Portugal).

With all the teachers on the basis of the decision of the competitive commission for the replacement of positions labor contracts were concluded. The University has developed and successfully applies in practice the Rules of internal regulations, regulations on wages and bonuses. The university follows the rules regarding working time and breaks. Internal corporate responsibility of the university implies responsibility for its employees, the creation of a favorable climate and the strengthening of team spirit in the team, providing opportunities for the disclosure of professional potential. This increases the motivation of staff and has a positive effect on work efficiency. Responsibility for university employees rests with the rector and heads of relevant departments.

The level of competence of teaching staff is assessed by questioning students, graduates, faculty and staff. Another mechanism is the teaching staff rating, which evaluates the activities of teaching staff according to 4 main functions: educational and methodical work, scientific work, educational work and advanced training.

The results of these activities allow the university administration to regularly assess the quality of teaching disciplines, serve as the basis for the extension of the employment contracts of teaching staff, as well as during promotion.

The teaching staff actively participate in the improvement of the EP by developing new disciplines and updating the existing teaching and learning centers. At the meetings of the department, teaching staff issues are discussed related to improving the teaching of a particular discipline or using a new technology.

The management of the EP ensures the completeness and adequacy of individual planning of the work of teaching staff for all types of activities, monitoring the effectiveness and efficiency of individual plans. The workload of the teacher includes educational, teaching, research, organizational, methodological, educational work, as well as professional development, activity in a professional environment. On average, classroom load is (650-750 hours). Planning load is determined based on the academic degree and the teaching staff position.

The research work of the department teachers is complex. It includes the preparation of articles, monographs; participation in conferences, the development and implementation of research projects; scientific management of master's theses.

The main research topics of the department "Ecology and CT", "Electric power industry and life safety»have the following areas:

1. “Experimental and theoretical studies of the interaction of light weakly bound nuclei at low energies - for astrophysical applications” (Ph.D., associate professor MukhambetzhanAisuluMukhambetzhanzyky), the amount of funding is 18,000,000 tons for 2018–2020.

2. “An innovative approach to the joint processing of solid and liquid wastes into adsorbents for wastewater treatment»(Ph.D., Professor AppazNurbolOrynbasaruly), the amount of funding is 27,180,000 tenge. for 2018-2020

3. “Development of multienzyme biosensors based on polymeric nanomaterial. Production of an experimental sample instrument-analyzer with polymer enzyme sensors for determining two metabolites in biological fluids»(Ph.D., Professor AppazNurbolOrynbasaruly), the amount of funding is 30,000,000 tenge. for 2018-2020

The university management creates conditions for the development of research activities of academic staff of the accredited educational institutions, compliance of its subjects with current environmental issues, problems of the theory of state and law, development priorities of the state, national policy

**Number of scientific publications of the teaching staff of EP 5B060800- Ecology**

**for the years 2015-2018**

| | 2015/2016 | 2016/2017 | 2017/2018 |
|---|---|---|---|
| In international scientific journals Tomson Reuters, Scopus | 2 | 6 | 2 |
| High-ranking journals (RISC, etc.) | 1 | 4 | 6 |
| Magazines recommended by KKSON MES RK | 2 | 1 | 5 |
| Journals near and far abroad, International Conference | 28 | 31 | 20 |
| Monograph | - | 1 | 1 |
| Tutorials | 14 | 9 | 7 |
| Electronic textbooks | 2 | 1 | 5 |
| Patents | 11 | 3 | 15 |

**Number of scientific publications of the teaching staff of EP 5B073100- Life Safety and Environmental Protection, EP 5B071800 - Electric Power Industry**
**for the years 2015-2018**

| | 2015/2016 | 2016/2017 | 2017/2018 |
|---|---|---|---|
| In international scientific journals TomsonReuters, Scopus | 1 | 1 | 1 |
| High-ranking journals (RISC, etc.) | 1 | 4 | 6 |
| Magazines recommended by KKSON MES RK | 2 | 1 | 5 |
| Journals near and far abroad, International Conference | 22 | 14 | 17 |
| Monograph | - | 1 | 1 |
| Tutorials | 11 | 7 | 5 |
| Electronic textbooks | 2 | 1 | 5 |

Over the past 3 years, EP 5B060800- Ecology has published articles in the Thomson Reuters and Scopus indexed databases - 10, articles in journals recommended by the Higher Attestation Commission of the Russian Federation RSCI - 11, in journals recommended by KSON MES RK-8, in journals of near and far abroad, international conferences-79, monographs-2, teaching aids - 30, electronic textbooks - 8, patents for innovative activities - 29;

According to EP 5B073100- Life Safety and Environmental Protection, EP 5B071800 - “Electric Power Industry” published articles in the Thomson Reuters and Scopus - 3 indexed database, articles in journals recommended by the Higher Attestation Commission of the Russian Federation - RINTS - 11, in journals recommended by CCSAH MES RK-8 , in journals of near and far abroad, in international conferences-53, monographs-2, teaching aids - 23, electronic textbooks - 8.

The results of the research work of the teaching staff of the department are also being actively implemented in the educational process and are reflected in the educational work of teachers.

Teachers of the department "Ecology and HT»prepared and developed the following teaching aids and monographs, for example, a professor, Candidate of Chemical Sciences N.O. Appazov prepared and published a monograph "The Chemistry of Organophosphorus Compounds", professor, Candidate of Chemical Sciences K.H. Darmagambet released a monograph on the topic “Stability of hydrodispersion of aerosil in the presence of water-soluble polymers”, candidate of technical sciences E. Nazarov has prepared a textbook "Analysis and assessment of the anthropogenic impact of an oil production enterprise on the environment»for students of OP 5B060800- Ecology.

The textbook “Atoms of Energy Kauipsizdiginin Physics Negatives Neutrondis Physics»for students and undergraduates was prepared by the candidate of technical sciences A.M. Mukhambetzhan.

The university has created and operates a system of stimulating professional and personal growth of teachers, including advanced training, visits to other universities, including abroad, assessment of professional level, participation in competitions, bonuses, incentives based on results, the opportunity to study at the master's and doctoral levels. , hold positions, etc. The university management pays great attention to the training of faculty members in an accredited educational program, for example, N.I. Akylbekov, senior teacher of the department "Ecology and Chemical Technologies", attended postgraduate studies at Kazan National Research Technological University of the Republic of Tatarstan, Kazan, and successfully defended his thesis on «Synthesis and properties of new heterocyclic compounds based on functional derivatives of benzofuroxans, senior lecturer N.S.Sikhanova studied at the Kazan Fed cial University and successfully defended his thesis in 2018 KA in the Russian State Agrarian University named after Timiryazev on the topic “Formation of ornithocenosis in the recovery zone of the lake systems of the Syrdarya river delta (on the example of Lake Kartma)»in the specialty 03.02.08 – bioecology. Currently, the teacher of the department "Ecology and Chemical Technologies»R.A. Turmanov is studying postgraduate studies at the Kazan National Research Technological University in the Republic of Tatarstan, Kazan.

Professionals from leading enterprises and organizations are actively involved in the implementation of accredited EPs. In order to increase the efficiency of organization and stimulate the managers of practices from production, specialists were recruited - Director of the branch of the RSE for REU “National Center of Expertise»in Kyzylorda region F.I. Kaliyeva, Leading Electrical Engineer of PetroKazakhstanKumkolResources JSC A.A. Ilyasov, Deputy Head of the Service for Testing and Protection of Overvoltage, “KREK»JSC Niyazov.

Advanced training of teaching staff of an accredited EP, in particular, young teachers, is carried out within the framework of the grant “The best teacher”, at the expense of outside organizations, at the university, abroad, both at the expense of the university and at the expense of teachers. Innovative methods and forms of education, information and communication technologies are purposefully studied.

Within the framework of the EP, technological support is provided for faculty members. The teaching staff of educational programs have the opportunity to participate and be the organizers of online seminars, online conferences and online courses. So faculty departments are registered on the domestic platform MOOK Al Farabi Kazakh National University (http://open.kaznu.kz) and during the year, under the grant of the Shakhmardan Yessenov Foundation, they learn English from teachers of the international school Bonas MacFarlane.

Thus, we can conclude that the faculty meets the qualification requirements for licensing educational activities and has full knowledge of modern teaching methods, which allows you to organize an effective learning process.

Based on the agreement of JSC Center for International Programs “Bolashak”«No. 1274 of June 24, 2013, from July 15 to September 24, 2013, Mukhambetzhan A.M., Senior Lecturer at the Department of Electric Power Industry and Safety of Vital Functions. passed internship in Switzerland under the program "Pedagogical diagnosis, assessment and quality management of education", Abzhalelov BB Internship in the Netherlands, Appazov N.O. in Portugal, Sarabekov U.ZH. participated in an international seminar in Turkey. Professor of the Department "Ecology and Chemical Technologies»Appazov N.O. passed an internship at Novosibirsk State University, St. Petersburg State Technological University, Joint Institute for Nuclear Research (Dubna), Institute of Organic and Physical Chemistry named after A.E. Arbuzov( Kazan), New University of Lisbon (Portugal), Ufa State Oil Technological University, Institute of Cell Biophysics (Pushchino), Institute of Biochemistry and Physiology of Microorganisms. GK Skryabin (Pushchino).

Employee bonuses are made based on the results of work for the academic year, for scientific results. The faculty of the University actively participates in the development of the region: the organization of round tables, seminars, master classes on the subject of legal, socio-economic, cultural, political, spiritual and moral development, in the formation of the cultural environment.

For the implementation of EP 5B071800- “Power engineering”, 5B073100- “Life safety and environmental protection”, 6M073100- “Life safety and environmental protection” foreign teachers from Bulgaria and Russia were involved. A course of lectures on the topic “Reliability of technical systems»by Academician of the Technical Institute N. Petrov (Bulgaria) and a course on the topic “Features of energy and resource saving in technological processes with the provision of environmental friendliness” was taught to students of accredited EPs by a professor at the South Ural Technical University S.K. Sheryazovym.

***Analytical part***

Analyzing the standard "Teaching staff»in accredited areas, the commission concluded that the university has an objective and transparent personnel policy, including recruitment, professional growth and staff development, ensuring the professional competence of the entire state. The management of the EP demonstrated a sense of responsibility for their employees and providing them with favorable working conditions.Korkyt ata KSU determined the contribution of teaching staff to the implementation of the university's development strategy.

The leadership of EP attracts practitioners from relevant industries to teaching and provides targeted actions for the development of young teachers. Korkyt ata KSU demonstrated the motivation of professional and personal development of teachers of EP, including the promotion of both the integration of science and education, and the use of innovative teaching methods.

During the meetings with the faculty and the analysis of the documents submitted by the university, the experts found insufficient academic mobility of the faculty. In this regard, the management of accredited EPs should increase the participation of teachers in academic mobility programs, expand the possibilities of international cooperation and exchange of experience with foreign and domestic colleagues.

***Strengths / best practice for the EP 5B071800-Electricity, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

- ensuring an objective and transparent personnel policy, a comfortable psychological microclimate and favorable conditions for the work of the teaching staff;

- The management of the university provides full support for faculty members, stimulates personal development, including the promotion of the integration of scientific activities and education;

- practice teachers are actively involved in the implementation of EP;

- active participation of the teaching staff in the scientific, cultural and social life of society.

***Recommendations EEC for the EP 5B071800-Power, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

- to continue work on ensuring academic mobility of teaching staff and attracting the best foreign and domestic scientists.

***Conclusions EEC on the criteria for 5B071800-Power, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

***strong - 7, satisfactory - 5, suggest improvements - 0, unsatisfactory - 0***

## *6.8. Standard "Educational resources and student support systems"*

***The evidence part***

An important factor in ensuring the quality of education and the guarantee of sustainable development of Korkyt Ata KSU is the continuous improvement of material, technical and information resources. The university has all the conditions for teaching students, conducting research, publishing the results of research and teaching staff, staff and students.

The University has a material and technical base that provides for carrying out all types of practical training and research work of students, provided for by the curriculum of the university and corresponding to the current sanitary-epidemiological and fire safety rules and regulations.

Systematic work is being carried out to update and improve the material and technical base of EP 5B071800- “Electric Power Engineering”, 5B073100- “Life Safety and Environmental Protection”, 6M073100- “Life Safety and Environmental Protection”, and 5B060800- “Ecology”. In the process of obtaining educational services, those who are accredited by the EP have access to the use of the following objects:

Training room No. 5, total area . With accredited EPs, 15 people live in dormitories. The Seykhun sports and fitness center includes: a sports hall for team sports (futsal, volleyball, handball) with a size of 968 m2; a swimming pool of 275 m2 in size; a gym with the appropriate equipment and equipment; two saunas equipped with modern stoves; Recreation area with pool table and table tennis. The industrial base, where the test is carried out on electrical apparatuses, JSC Kyzylorda Distribution Electric Company, a branch of the RSE on the REU “Kyzylorda State University named after Korkytata»covers an industrial base of 2.0 hectares. Palace of Students for 460 seats with a total area of 1900.3 m2. The tactical training ground of the military department of the university is 75 hectares. on the territory of which there are: military headquarters, sanitary facilities, a canteen for 300 places. Each academic building and all the hostels of the university accredited by the EP have libraries and reading rooms, which creates convenience in obtaining educational

services. In the 5th building on the 4th floor there is a reading room for 36 seats, 1 electronic hall for 16 seats with 8 computers and a subscriber. The main library collection is located in the scientific and technical library of Kyzylorda Korkyt ata State University.

The general fund of educational, educational and methodical literature in the context of specialties is: 222222 units in the “Power industry” educational institution, including 5223 units (36.5%) in the state language, 14320 units in the state language, including language - 5223 units (36.5%); on OP "Ecology»- 6034, including in the state language 3885 units (64%).

For students of the 3rd and 4th years of the accredited EP, laboratory and practical classes are conducted. All production practices are held at the enterprises of Kyzylorda Distribution Energy Company JSC, Kyzylordateploelektrotsentr State Enterprise, Kentau Transformer Plant JSC, Kyzylorda Regional Branch of the RSE at the National Center for Expertise REV, ECO GUARD. about cooperation.

In order to ensure social and cultural conditions for students, the University provides for the following: the Korkyt ata KSU educational building has a canteen, cafeteria and catering facilities (vending machines) with an area of 296 square meters, and there is a medical center with a total area of 37.7 sq.m, and also the University has an indoor sports hall with a total area of 576 sq.m.

The departments and the main classroom fund of the accredited EP are located on the 2nd, 2nd, 4th and 5th floors of the engineering and environmental faculty (educational building No. 5).

For the implementation of EP 5B071800 - “Electric Power Engineering»there are 2 lecture halls with multimedia support and 6 educational and specialized laboratories: “Electrical materials and high voltage equipment”, “Alternative energy”, “Electrical engineering and electronics”, “Electrical networks and systems”, “ Electrical machines and electric drive "and»Electrical equipment and installation of electrical equipment ",. For the implementation of the accredited EP 5B073100- "Life Safety and Environmental Protection»fixed 1 lecture hall, 1 room with an interactive whiteboard, 1 educational and specialized laboratory "Labor Protection and Safety of Vital Activities". The total area of the classroom fund is 784.5 m2. The basis for the formation of classrooms and laboratories based on the principle of specialization in EP and specialization within the EP in areas.

Environmental monitoring, Laboratory of Engineering Profile "Physico-chemical methods of analysis", a communal laboratory in the branches of the Department of RSE for PVC "National Center of Expertise»in Kyzylorda region and "ECO GUARD»LLP.

All specialized laboratories are equipped with the necessary set of training equipment, teaching aids and educational materials necessary for the organization of classroom and extracurricular classes (Methodological guidelines for laboratory work, Methodological manuals for practical work, Methodological manuals for independent work, reference materials, etc.).

Computer classes OP correspond to the Sanitary Rules "Sanitary-epidemiological requirements for working conditions with sources of physical factors (computers and video terminals) affecting a person»No. 38 dated January 21, 2015.

The university’s scientific and technical library has 5 reading and 3 electronic rooms for 700 seats. All structural divisions of the library are equipped with the necessary library equipment and furniture, computer and copying equipment. In the electronic reading room of the library there are 57 computers, 10 scanners, an interactive whiteboard, 9 printers, 2 copiers, and a TV with a VCR. Fund of the Scientific and Technical Library of the KyzylordKorkytataState University is 2 202 483 copies of educational, educational and scientific literature.

Students, faculty members and employees actively use materials of electronic publications, such databases as Thomson Reuters, Scopus, Springer Link, EBS "Lan", EBS

"University Library Online,»scientific electronic library eLIBRARY.RU, POLPRED, for educational and scientific interests. .COM - review of Russian and foreign media, KazNEB, RIEL, the library of the first president of the Republic of Kazakhstan, debut portals, I-kitap portals, the electronic reference and bibliographic catalog “IRBIS-64»which contains more than 118560 records. own electronic library (http: //192.1 68.97.199: 81 /), including 8554 titles of educational resources (textbooks, teaching aids, etc.) and databases: Springer Link, Web of Science.

The material and technical base and information resources of the university correspond to the specifics and meet the objectives of the accredited EP. Students, faculty and staff have the opportunity to search in electronic catalogs and full-text databases of the Republican Scientific and Technical Library, the Republican Interuniversity Electronic Library (REEL).

Korkyt ata KSU has academic support services for students: a registrar office, an advisory service, an educational and methodical department. The registrar's office monitors the students current progress on a weekly basis. Analysis of academic performance and quality of education is carried out in the context of groups, disciplines, specialties, faculties. Office registrars, together with the departments, provide academic support for students in choosing and mastering the educational trajectory, familiarize students with the rules of the credit system of instruction, inform about the registration deadlines for the disciplines, and calculate the student’s academic performance rating. Students have access to all necessary information and reference materials: student's guidebook, academic calendar, educational and methodical complexes of disciplines, catalogs of elective disciplines, resources of the institute's website, information boards.

Wi-Fi zones with access to free Internet are created in educational buildings, the institute’s information network has an Internet access rate of 200 Mb \ c. Information resources of the university: Platonus automated educational process management system, official website http: // www. korkyt.kz, accounts in social networks: VKontakte, Youtube, facebook, Instagram.

To ensure the copyright of faculty and staff at the university, various technologies are used that restrict access to downloading materials from the university site.

***Analytical part***

The EEC confirms the availability of student support systems, including support through the university site. During meetings with trainees and teaching staff, it was revealed that the majority of people do not have financial opportunities to attend training, internships, and advanced training at leading universities in the world, therefore it is advisable to involve students and teaching staff in the best online courses more widely.

As a result of the visual inspection of objects of the material base, the members of the EEC are convinced that the university has the necessary educational and material assets to ensure the educational process of the educational programs being accredited. The buildings and facilities of the university comply with current sanitary standards and fire safety requirements.

According to the results of the survey, the availability of library resources was fully satisfied –92.5%, “partially satisfied»- 7.5% of students; study rooms, classrooms for large groups - 81.7% (15.1%); cabinets for small groups - 84.9% (14%); recreation rooms for students - 68.8% (16.1%); computer classes and Internet resources - 86% (10.8%) of trainees; available computer classes - 87.1% (7.5%); scientific laboratories - 77.4% (20.4%). Full satisfaction of students with the provision of hostel is 79.6% (12.9%).

***Strengths / Best Practices***

- a sufficient degree of equipment with laboratory equipment and funds to support the educational process;

- availability of library resources that contribute to the formation of students' professional competence.

***EEC recommendations***

- there are no recommendations for this standard

***Conclusions EEC on the criteria for the EP 5B071800-Power, 5B073100-Life safety and environmental protection, 6M073100-Life safety and environmental protection, 5B060800-Ecology, 6M060800-Ecology:***

***Strong - 2, satisfactory - 8, suggest improvements - 0, unsatisfactory - 0.***

## *6.9. Standard "Public Information"*

***The evidence part***

Korkyt ata KSU pays great attention to informing the public, students and staff about the results of its activities, the policies of the university and maintaining a dialogue with them. The university regularly publishes information on its activities in general and on the implementation of educational programs. The site contains a description of the programs with the assignment of qualifications.

The university management uses a variety of ways to disseminate information - such as booklets and promotional materials, the university website, briefings held by management, open doors, vacancy fairs at the university, round tables with heads of enterprises and organizations, universities and educational exhibitions, and career guidance. Management, faculty and students appear in the media, publish materials in national newspapers and magazines, participate in various programs on radio and television. Information about the content of educational programs is regularly discussed at meetings with representatives of employers. In addition, employers are included in key collegiate bodies.

According to the principles of openness and accessibility for the public, the KSU estate Korkyt Ata openly places complete and reliable information about the university's activities, rules for admission of applicants, educational programs, terms and forms of education, international programs, the benefits of the university and each faculty, the employment of graduates, graduates, about the activities and successes of students, contact and other useful information for applicants and students on various information media.

Effective feedback with students is carried out by:

-service feedback on the personal pages of students, faculty in the educational portal of the university http://platonus.korkyt.kz/, where the student gets access to the academic calendar, the curriculum in their specialty and the formation of an individual curriculum (information about the disciplines and teachers) , educational materials provided by teachers in the studied disciplines.

- service of the official website of the university - the blog of the rector http://e-univer.korkyt.kz/Blog.aspx.

Each student and their parents at any time through the portal of the university platonus.korkyt.kz have the opportunity to familiarize themselves with the results of the current, mid-term and final controls, as well as with orders based on the results of the academic semester and academic year. At the end of the academic periods, the student receives full information about the progress in the studied disciplines (transcript).

Announcements on the conditions of admission of applicants to the Korkyt ata Kyzylorda State University and the list of university specialties being prepared are published annually in the regional newspapers SyrBoyi, Kyzylorda news and broadcast on local TV channels Kazakhstan-Kyzylorda and Kogam-TV.

Data on graduates of the regional schools are reflected on the site http://e-univer.korkyt.kz/. In the career guidance period, they are updated and are constantly supplemented with the necessary information.

EP management annually holds a job fair, which allows graduates and employers to establish contact for the selection of necessary personnel. The organization and conduct of professional practice, the provision of employment assistance, the monitoring of employment and the analysis of students' career growth is carried out by the Department of Competence Development and Employment and the departments for the accredited EP. There is a close cooperation with enterprises and organizations of the region (for example, with the education department of Kyzylorda and Kyzylorda oblast, with the city department of employment and social programs), graduates annually participate in "Job fairs", which are held on a city scale.

(https://e-kyzylorda.gov.kz/?q=ru/news/na-yarmarke-vakansiy-vypusknik-2017). Seminar-trainings are also regularly held, for example, on April 2, 2018 by ZhumagulovaAizhanKanibekyzy, a methodologist of the department of educational process organization, and a marketer, SataevaAkbotaErtaykyzy, a marketing specialist on graduates of the engineering-ecological department, conducted a seminar-training on "Ways to fill in a resume" http: // www .korkyt.kz / index.php / en / 2018-04-04-03-20-25 / novosti / 470-proveden-seminar-trening-na-temu-puti-effektivnogo-zapolneniya-rezyume. Students of EP, 5B071800 – Power; 5B073100 - Life safety and environmental protection; 6M073100 - Life safety and environmental protection; 5B060800- "Ecology»took part in the seminar "The demand of specialists in the labor market", organized by the Department of Competence Development and Employment ofKorkyt ata KSU. with the participation of specialists from the city employment center (http://www.korkyt.kz/index.php/ru/2018-04-04-03-20-25/novosti/1189-spros-na-spetsialistov-na-rynke -truda). 01/22/19 g at the university on the initiative of the department "Electric power engineering and life safety»was held a "round table»on the topic "The interaction of the university with employers as a condition for high-quality training of graduates.»(http://www.korkyt.kz/index.php/en/2018-04-04-03-20-25/novosti/1419-kruglyj-stol-s-rabotodatelyami).

In the republican and local newspapers "Yegemen Kazakhstan" and "Kyzylorda News" there were published articles "Korқyt Ata ätindagy Kyzylorda memlekettik university turaly nebilemiz?" (Https://egemen.kz/article/161213-qorqyt-ata%C2 atyn% C2% ADdaghy-qyzylorda-memle% C2% ADkettik-universiteti-turaly-ne-bilemiz) and Korkyt ata Kyzylorda State University: Vector - Fundamental Development (http://kzvesti.kz/kv/thirdband/29531 -kyzylordinskiy-gosuniversitet-imeni-korkyta-ata-vektor-fundamentalnoe-razvitie.html) which describe in detail the activities of the university https://kzvesti.kz/6-08-16/10658-vuz-ustremlennyyy-v-buduschee.html where the activities of univers were described iteta.

The university publishes the scientific journal "Bulletin of Korkyt ata KSU», a high-school circulation newspaper "Syrtulegi" is published, which reflects the scientific activities of the university. Scientific articles, staff and students' works are published, for example, the article by TolegenAyim, a student of the department "Electric Power Engineering and Safety, Vital Activity and Environmental Protection" "Mamandy – Mage!»Was published in the university newspaper "SyrTeleleg»No. 1 (410) October 6, 2017, 7 pages, No. 1 (412) November, 2017, 8 pages. In order to increase the competitiveness of EPs, an active advertising campaign on local television is carried out in the educational services market,

for example, in the program “Murbemal Mamandyқ” Department of the specialty training in the field of "Power»http://kyzylordatv.kz/kz/archive/programs/programs_poz/martebeli_mamandyk_kyz/705265, also an interview was published on the local newspaper about the activities of the university, including the specialty "Life safety and protection»Environment "with Dr. PhD of the Department»Electric Power and Life Safety and Environmental Protection "Sarabekova U.ZH. https://kzvesti.kz/2-4-2016/9496-i-otdyh-ucheba.html.

The main channel for informing the public (prospective students, their parents, students, graduates and employers) is the official website of the university http://www.new.korkyt.kz/.

University students, teachers, parents, employers, and the public keep up-to-date feedback to the university management through a functioning rector’s blog or through the rector’s e-mail, as well as through the implemented automated information system Platonus.

The Korkyt Ata Kyzylorda State University annually participates in the External Evaluation of Educational Achievements (EEEA) conducted by graduate students from the Ministry of Education and Science of the Republic of Kazakhstan.

***Analytical part***

The university constantly publishes up-to-date and objective information about the EPs implemented, with the indication of the expected learning outcomes, on the qualification assignment at the end of the EPs being accredited; about teaching, learning, assessment procedures.

Analysis of the information presented in the media showed a sufficient level of public awareness about the EP implemented, providing support and explanation of the national development programs of the country and the system of higher and postgraduate education.

Evaluation of satisfaction with information about the activities of the university, the specifics and the implementation of the EP is conducted annually through questionnaires, surveys, feedback, and also through the rector’s blog.

A survey of students, conducted during the visit of the EEC of the IAAR, showed that satisfaction with students' knowledge of courses, EP, and academic degrees was fully satisfied - 83.9%, partially satisfied - 14%, partially dissatisfied - 2.2% of students.

***Strengths / best practice for the EP 5B071800-Electricity, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

- availability of information about implemented modular educational programs with the indication of the expected learning outcomes, on conferring qualifications at the end of the accredited EP; about teaching, learning, assessment resources;
- to inform the public by the university, various ways of disseminating information are used;
- public information provides support and clarification of the national development programs of the country, the system of higher and postgraduate education;
- reflection on web resources of information describing the university as a whole and in the context of EP;
- The university participates in the external evaluation of the EP.

***EEC recommendations***

- there are no recommendations for this standard

***Conclusions EEC on the criteria for the EP 5V071800-Power, 5B073100-Life safety and environmental protection, 6M073100-Life safety and environmental protection, 5B060800-Ecology, 6M060800-Ecology:***

***strong - 7, satisfactory - 6, suggest improvements - 0, unsatisfactory - 0***

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

***The evidence part***

Based on the National Qualifications Framework, approved by a joint order of the Minister of Education and Science of the Republic of Kazakhstan dated September 28, 2012 No. 444 and the Acting Minister of Labor and Social Protection of the Population of the Republic of Kazakhstan dated September 24, 2012 No. 373-м-m (State Compulsory Higher Standard Education, approved by order of the Minister of Education and Science of the Republic of Kazakhstan No. 604 of October 31, 2018, by the Classifier of areas of training with higher and postgraduate education, approved by an order of mines Istra of Education and Science of the Republic of Kazakhstan dated October 13, 2018 No. 569) according to EP 5B060800- Ecology»the following trajectories were introduced:»Study of the ecology of the environment», according to EP 6M060800-Ecology“ Environmental protection»according to EP 5B071800 –Electric power industry“ Power supply of industrial enterprises»; 5B073100 - Life safety and environmental protection, 6M073100 - Life safety and environmental protection "Industrial safety and environmental protection".

Accredited EP belong to the group "Science of Natural Sciences", "Technical Sciences".

The content of all disciplines of the OP is based on and includes a clear relationship with the content of the fundamental natural sciences, such as mathematics, chemistry, physics. They are taught by E. Әbzhanov, G.Sh.Askarova, K.H. Darmagambet.

By specialty: 5B060800 - “Ecology”, 5B071800 “Electric Power Industry”, 5B073100- “Life Safety and Environmental Protection”, 6M073100- “Life Safety and Environmental Protection” 6M060800 - “Ecology”, disciplines “Physics”, “Chemistry”, "Higher Mathematics", "Environmental Aspects of Natural Science", "Ecological Chemistry", "Influences of Socio-Ecological Factors on Human Health", "Ecological Law and Management»"Ecology of Agrocenosis»"Applied Ecology»"Theoretical Foundations of Electrical Engineering", "Electrical Engineering erialy and products "and the other is based on the knowledge in the disciplines of mathematics, chemistry and physics, which makes it possible to carry out a comprehensive analysis for further work in the specialty as well as the introduction of technology on the environment and electricity. All these disciplines provide an opportunity to prepare students for industrial, technical and research activities related to the creation of environmental reports and training in the use of knowledge obtained as a result of fundamental training in general scientific disciplines for solving environmental problems, as well as electrical circuits and equipment, mastering computed schemes and problems of choice equipment.

The program of disciplines contains elements of innovative teaching methods of teaching and learning planning (games, case studies / situations, the use of multimedia).

Within the framework of accredited EP, modern teaching methods and forms of organization of the educational process are widely used. Work on the introduction of new technologies is carried out: through the training of teachers; conducting outdoor activities; mutual attendance of classes in order to get acquainted with new learning technologies; conducting educational workshops; methodologies, the development of teaching aids and recommendations on the use of innovations in practice; preparation of master's theses.

Teachers of the department in the classroom use a technique based on problem, heuristic, gaming and other productive forms of education, stimulating the creative abilities of students through direct

involvement in creative cognitive activity. Interactive teaching methods, information and communication technologies are being actively introduced.

In the classroom, apply such technologies and methods as analysis

specific situations, focusing questions, a detailed lecture, interactive training, preparation of an analytical essay, individual and

group presentations, etc.

For the continuous advancement of students, personal growth and development of the student in the process of mastering the accredited EP various events are held. In order to meet the educational, professional, spiritual and moral, cultural and ethical needs of students in the department of "Ecology and chemical technology»a student scientific circle "ECOLife»operates.

Educational programs include disciplines aimed at gaining practical experience and skill in the specialty.

Under the OP, students are provided with the knowledge and skills of systems and methods of pedagogy in the world, as well as knowledge in the field of education management. Educational programs include important components necessary for preparation for a professional activity, developing key competencies. In the process of implementation of accredited EPs, round tables, scientific and methodological seminars are organized at the departments where current issues of education and technical sciences are discussed. For the improvement of the educational process, specialists from the production who have practical experience in the industrial sectors in ecology are involved in the educational process. The results of training educational programs are: the formation of students' competencies that are in demand on the labor market, the formation of readiness for professional activities, personal, professional and social development of students, contributing to socialization, the formation of a general culture of the individual. In general, it can be stated that the department conducts systematic work to improve the educational process, which is represented by the following activities:

- annual methodological seminars;
- training courses for teachers and undergraduates;
- development of educational and methodical literature, electronic textbooks and teaching materials;
- organization of academic mobility of students and teaching staff;
- research work.

According to the OP provides continuous, educational and professional practice. The university constantly maintains contact with industrial enterprises of the region, which provide a platform for students to practice, which contributes to the strengthening of theoretical material and the acquisition of practical skills, which in turn also contributes to improving the quality of student training. The main bases of practice are: RGP PVC "National Center of Expertise", ECOGUARD LLP, Kyzylorda Electricity Distribution Network Company JSC, Kyzylordateploelektrotsentral State Enterprise, Kentau Transformer Plant JSC, Geo Engineering Engineering and Construction Department, Republican Research Institute for Protection Labor Department of the Ministry of Labor and Social Protection of the Population of the Republic of Kazakhstan», Department of Ecology for Kyzylorda region.

For each type of practice, teachers of the department "Ecology and chemical technologies»and "«Electric power engineering and life safety and environmental protection "in accordance with the rules of organizing and conducting production practices and the rules for identifying organizations as bases of practice of January 29, 2016 No. 107

and SES RK (Government Decision of the Republic of Kazakhstan No. 292 dated May 13, 2016), working curricula and assignments for educational practice of students of specialties with guidelines for their implementation have been developed and approved. Tasks for practical training are aimed at consolidating theoretical knowledge and obtaining by students the skills of their practical application. Professional practice is conducted in accordance with the academic calendar in accordance with the approved working curricula.

- For students of the specialty 5B060800- "Ecology", 5B071800 "Electric Power Industry", 5B073100- "Life Safety and Environmental Protection", excursion events are held at the enterprises of the region. They visit the Department of Ecology in Kyzylorda region, “National Center of Expertise”, “ECOGUARD LLP”, “Regional House of Nature”, “Kyzylorda Electricity Distribution Company»JSC, “Kyzylorda Thermal Power Plant»SCC, “Kentau Transformer Plant»JSC, “Geo Engineering»JSC ",»Republican Research Institute for Labor Protection of the Ministry of Labor and Social Protection of the Population of the Republic of Kazakhstan ", Agrobiological site and engineering profile laboratory»Physico-chemical methods of analysis "Korkyt Ata Kyzylorda State University.

- The following disciplines are conducted directly at the enterprises: Environmental Impact Assessment, fundamentals of environmental standardization and appraisal, fundamentals of radiation ecology, power plants and substations, and high voltage equipment.

- Conducting seminars to solve practical problems relevant to enterprises in the field of specialization, etc.

For the implementation of accredited EPs, specialists were recruited who work directly at the branches of the departments: F.I. Kaliev, K.M. Utegenov, A.A.Ilyasov, S.L. Niyazov.

The results of the practice are reviewed and discussed at the final

conference. At the departments there are reports of masters, reports of students, minutes of the installation and final conferences for the last 3 academic years, diaries, materials of open lessons, visits to lessons of teachers and innovators, statements on the results of the practices, feedback from the heads of the practices.

***Analytical part***

Based on the results of the analysis, the EEC members came to the following conclusion.

Attendance showed that the teaching of educational programs is carried out using software products by specialty profiles, using various teaching methods. The content of the lecture material highlighted foreign best practices and gave examples of modern achievements in the relevant field. The interviewers, as a wish, confirmed the active use of interactive teaching methods.

At a meeting with experts from the IAAR, employers particularly confirmed the introduction of elements of the dual training format and the presence of practice-oriented disciplines in the educational process. The objectives and learning outcomes developed by the management of the OP are of a general professional nature, concretized in accordance with the goals and in the context of each discipline.

***Strengths / best practice for the EP 5B071800-Electricity, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

- educational programs include disciplines and activities aimed at obtaining practical experience and skills in the specialty;

- The faculty includes full-time teachers who have a long experience of working as a full-time employee in enterprises;
- the content of all disciplines of the EP is based and interrelated with the content of the fundamental natural sciences;
- The EP manual provides measures to enhance practical training in the field of specialization;

***EEC recommendations***

- there are no recommendations for this standard

***Conclusions EEC on the criteria for the EP 5B071800-Power, 5B073100-Life safety and environmental protection, 6M073100-Life safety and environmental protection, 5B060800-Ecology, 6M060800-Ecology:***

***strong - 4, satisfactory - 1, suggest improvements - 0, unsatisfactory - 0.***

## (VII) REVIEW OF STRONG PARTIES / BEST PRACTICES FOR EACH STANDARD

***Strengths / best practice for the EP 5B071800-Electricity, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800-Ecology, 6M060800-Ecology:***

***6.1. Standard "Management of the educational program"***

- availability of a published quality assurance policy;
- individuality and uniqueness of the EP development plan, its consistency with national development priorities and the development strategy of the organization of education.
- management of innovation in the framework of educational programs.

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

- functioning of a system for collecting, analyzing and managing information through the use of modern information and communication technologies and software;
- the information collected and analyzed by the university takes into account key performance indicators, the dynamics of the contingent of students in the context of forms and types, level of academic achievement, student achievement and deduction, accessibility of educational resources and support systems for students;
- process of employment and career growth of graduates of educational programs is monitored.

***6.3. Standard "Development and approval of educational programs"***

- The university determines and documents the procedures for the development of EPs and their approval at the institutional level;
- EP management ensures compliance of the developed EP with established goals, including the expected learning outcomes;
- the qualification obtained at the end of the EP is clearly defined, explained and corresponds to a certain level of the NSC;
- The management of EP determines the influence of disciplines and professional practices on the formation of learning outcomes.

***6.4 Standard "Continuous monitoring and periodic evaluation of educational programs"***

- - regular monitoring and periodic evaluation of EP take into account the workload, performance and release of students;
- - revision of the content and structure of the EP in the light of changes in the labor market, the requirements of employers and the social demand of society.

***6.5. Standard "Student-centered learning, teaching and assessment of progress"***

- application in the learning process of innovative learning technologies, allowing to enhance the cognitive activity of students;
- availability of a feedback system on the use of various teaching methods and assessment of learning outcomes;
- consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each EP.

***6.6. Standard "Students"***

- the policy of forming a contingent of students from admission to graduation and ensures the transparency of its procedures;
- special adaptation and support programs for applicants and foreign students;
- The presence in the university of the service of employment of graduates;
- support by the leadership of the university gifted students.
- providing 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.

***6.7. Standard "Faculty"***

- ensuring an objective and transparent personnel policy, a comfortable psychological microclimate and favorable conditions for the work of the teaching staff;
- The management of the university provides full support for faculty members, stimulates personal development, including the promotion of the integration of scientific activities and education;
- practice teachers are actively involved in the implementation of EP;
- active participation of the teaching staff in the scientific, cultural and social life of society.

***6.8. Standard "Educational resources and student support systems"***

- a sufficient degree of equipment with laboratory equipment and funds to support the educational process;
- availability of library resources that contribute to the formation of students' professional competence.

***6.9. Standard "Public Information"***

- availability of information about implemented modular educational programs with the indication of the expected learning outcomes, on conferring qualifications at the end of the accredited EP; about teaching, learning, assessment resources;
- to inform the public by the university, various ways of disseminating information are used;
- public information provides support and clarification of the national development programs of the country, the system of higher and postgraduate education;
- reflection on web resources of information describing the university as a whole and in the context of EP;
- The university participates in the external evaluation of the EP.

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

- educational programs include disciplines and activities aimed at obtaining practical experience and skills in the specialty;
- The faculty includes full-time teachers who have a long experience of working as a full-time employee in enterprises;
- the content of all disciplines of the EP is based and interrelated with the content of the fundamental natural sciences;
- The EP manual provides measures to enhance practical training in the field of specialization;

## (VIII) REVIEW OF RECOMMENDATIONS FOR IMPROVING QUALITY BY EACH STANDARD

***Overview of recommendations on the EP 5B071800-Power, 5B073100 - Health and environmental protection, 6M073100 - Life safety and environmental protection, 5B060800 - Ecology, 6M060800-Ecology:***

***1. Standard "Management of the educational program"***

- there are no recommendations for this standard

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

- to provide coverage for the confirmation of documentary consent to the processing of personal data of all subjects of the educational process.

***3. Standard "Development and approval of educational programs"***

- consider the possibility of participation of foreign and domestic universities in the development of joint EP.
- consider the practice of conducting external examinations on the EP.

***4. Standard "Continuous monitoring and periodic evaluation of educational programs"***

- there are no recommendations for this standard

***5. Standard "Student-centered learning, teaching and assessment of progress"***

- there are no recommendations for this standard

***6. Standard "Students"***

- carry out work on informing the work of the Alumni Association and improve the efficiency of its work.

***7. Standard "Teaching staff"***

- to continue work on ensuring academic mobility of teaching staff and attracting the best foreign and domestic scientists.

***8. Standard "Educational resources and student support systems"***

- there are no recommendations for this standard

***9. Standard "Informing the public"***

- there are no recommendations for this standard

***10. Standard "Standards in a cut of separate specialties":***

- there are no recommendations for this standard

## Appendix 1. Evaluation table "PARAMETERS OF EVALUATION OF THE EDUCATIONAL PROGRAM OF A SPECIALIZED PROFILE»(5B071800-Electric Power Industry, 5B073100-Life Safety and Environmental Protection, 6M073100-Life Safety and Environmental Protection, 5B060800- Ecology, 6M060800-Ecology, 6M073100-Life safety and environmental protection)

| № п\п | № п\п | Evaluation criteria | position of the organization of education | | | |
|---|---|---|---|---|---|---|
| | | | Strong | SatisfyingSuggests | Improvement | Unsatisfactory |
| **Standard "Management of the educational program"** | | | | | | |
| 1 | 1. | The university must have a published quality assurance policy. | + | | | |
| 2 | 2. | The quality assurance policy should reflect the link between research, teaching and learning. | | + | | |
| 3 | 3. | The university should demonstrate the development of a culture of quality assurance, including in the context of the EP. | | + | | |
| 4 | 4. | Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including in the implementation of joint / double-diploma education and academic mobility. | | + | | |
| 5 | 5. | The EP's management ensures the transparency of the development plan of the EP based on an analysis of its functioning, the real positioning of the university and the focus of its activities on meeting the needs of the state, employers, stakeholders and students. | | + | | |
| 6 | 6. | The EP's management demonstrates the functioning of the mechanisms for the formation and regular review of the EP development plan and monitoring its implementation, evaluation of the achievement of learning objectives, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of EP. | | + | | |
| 7 | 7. | The administration of the EP should involve representatives of groups of stakeholders, including employers, students and faculty members in the formation of the development plan for the EP. + | | + | | |
| 8 | 8. | The EP management must demonstrate the individuality and uniqueness of the EP development plan, its consistency with the national development priorities and the development strategy of the educational organization. | + | | | |
| 9 | 9. | The university should demonstrate a clear definition of those responsible for the business processes within the EP, the unambiguous distribution of job responsibilities of staff, | | + | | |

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| | | separation of functions of collegial bodies. | | | | |
| 10 | 10. | EP management must provide evidence of the transparency of the educational program management system. | | + | | |
| 11 | 11. | The EP management must demonstrate the successful functioning of the internal quality system of the EP, including its design, management and monitoring, their improvement, making decisions based on facts. | | + | | |
| 12 | 12. | EP management must exercise risk management. | | + | | |
| 13 | 13. | EP management must ensure the participation of representatives of interested parties (employers, teaching staff, students) in the collegial bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program. | | + | | |
| 14 | 14. | The university should demonstrate the management of innovations within the framework of the EP, including the analysis and implementation of innovative proposals. | + | | | |
| 15 | 15. | EP management must demonstrate evidence of openness and accessibility for students, teaching staff, employers and other interested persons. | | + | | |
| 16 | 16. | The management of EP must be trained in educational management programs. | | + | | |
| 17 | 17. | EP management should strive to ensure that progress made since the last external quality assurance procedure was taken into account in preparing for the next procedure. | | + | | |
| **Totalstandard** | | | **3** | **14** | **0** | **0** |
| **Information Management and Reporting Standard** | | | | | | |
| 18 | 1. | The university should ensure the functioning of the system for collecting, analyzing and managing information through the use of modern information and communication technologies and software. | + | | | |
| 19 | 2. | EP management must demonstrate systematic use of processed, adequate information to improve the internal quality assurance system. | | + | | |
| 20 | 3. | Within the EP, there should be a regular reporting system reflecting all levels of the structure, including an assessment of the performance and effectiveness of the activities of departments and departments, and research. | | + | | |
| 21 | 4. | The university should establish the frequency, forms and methods of evaluating the management of EP, the activities of collegial bodies and structural divisions, senior management, and the implementation of research projects. | | + | | |
| 22 | 5. | The university should demonstrate the determination of the order and ensuring the protection of information, including the definition of responsible persons for the accuracy and timeliness of information analysis and provision of data. + | | + | | |
| 23 | 6. | An important factor is the involvement of students, employees and teaching staff in the process of collecting and analyzing information, as well as making decisions based on them. | | + | | |
| 24 | 7. | The EP's management must demonstrate the presence of a communication mechanism with students, employees and other interested parties, including the existence of conflict resolution mechanisms. | | + | | |
| 25 | 8. | The university should provide a measure of the degree of satisfaction of the needs of faculty, staff and students in the | | + | | |

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| | | framework of the EP and demonstrate evidence to address the identified deficiencies. | | | | |
| 26 | 9. | The university should evaluate the effectiveness and efficiency of activities, including in the context of the EP. | | + | | |
| | | Information collected and analyzed by the university should take into account: | | | | |
| 27 | 10. | keyperformanceindicators; | + | | | |
| 28 | 11. | The dynamics of the contingent of students in the context of forms and types; | + | | | |
| 29 | 12. | level of performance, student achievement and deduction; | + | | | |
| 30 | 13. | students' satisfaction with the implementation of the EP and the quality of education at the university; | | + | | |
| 31 | 14. | availability of educational resources and support systems for students; | + | | | |
| 32 | 15. | Employment and career growth of graduates. | + | | | |
| 33 | 16. | Students, employees and faculty must document their consent to the processing of personal data | | | + | |
| 34 | 17. | The administration of the EP should contribute to the provision of all necessary information in relevant fields of science. | | + | | |
| **Total standard** | | | **6** | **10** | **1** | **0** |
| **Standard "Development and approval of educational programs"** | | | | | | |
| 35 | 1. | The university should define and document the procedures for the development of EP and their approval at the institutional level. | + | | | |
| 36 | 2. | The administration of the EP must ensure that the developed EPs comply with the established goals, including the expected learning outcomes. | + | | | |
| 37 | 3. | The management of EP should ensure the availability of developed models of graduate of EP, describing learning outcomes and personal qualities. | | + | | |
| 38 | 4. | The administration of the EP must demonstrate the conduct of external examinations of the EP. | | | + | |
| 39 | 5. | Qualifications obtained at the end of the EP should be clearly defined, explained and correspond to a certain level of the NSC. | + | | | |
| 40 | 6. | The administration of EP must determine the influence of disciplines and professional practices on the formation of learning outcomes. | + | | | |
| 41 | 7. | An important factor is the possibility of preparing students for professional certification. | | + | | |
| 42 | 8. | EP management must provide evidence of the participation of students, faculty and other stakeholders in the development of EP, ensuring their quality. | | + | | |

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| 43 | 9. | The complexity of the EP should be clearly defined in Kazakhstan loans and ECTS. | | + | | |
| 44 | 10. | The administration of EP must provide the content of academic disciplines and learning outcomes to the level of education (bachelor, master, doctorate). | | + | | |
| 45 | 11. | The structure of the EP should provide for various types of activities corresponding to the learning outcomes. | | + | | |
| 46 | 12. | An important factor is the presence of joint EPs with foreign educational organizations. | | | + | |
| **Totalstandard** | | | **4** | **6** | **2** | **0** |
| **Standard "Continuous monitoring and periodic evaluation of educational programs"** | | | | | | |
| 47 | 1. | The university should monitor and periodically evaluate the EP in order to achieve the goal 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:* | | | | |
| 48 | 2. | the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the taught discipline; | + | | | |
| 49 | 3. | Changes in the needs of society and the professional environment; | | + | | |
| 50 | 4. | workload, performance and graduation of students; | + | | | |
| 51 | 5. | effectiveness of student assessment procedures; | | + | | |
| 52 | 6. | expectations, needs and satisfaction of students with EP training; | | + | | |
| 53 | 7. | educational environment and support services and their compliance with the objectives of the EP. | | + | | |
| 54 | 8. | The university and the administration of EP must provide evidence of the participation of students, employers and other stakeholders in the revision of the EP. | | + | | |
| 55 | 9. | All interested parties should be informed of any planned or taken actions in relation to the EP. AllchangesmadetotheEP shouldbepublished. | | + | | |
| 56 | 10. | The administration of the EP must provide a review 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. | + | | | |
| **Totalstandard** | | | **3** | **7** | **0** | **0** |
| **Standard "Student-centered learning, teaching and assessment of progress"** | | | | | | |
| 57 | 1. | The management of EP should ensure respect and attention to various groups of students and their needs, providing them with flexible learning paths. | | + | | |
| 58 | 2. | The administration of EP must ensure the use of various forms and methods of teaching and learning. | + | | | |

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| 59 | 3. | An important factor is the availability of own research in the field of teaching methods of academic disciplines EP. | | + | | |
| 60 | 4. | EP management must demonstrate the presence of a feedback system on the use of various teaching methods and evaluation of learning outcomes. | + | | | |
| 61 | 5. | The administration of the EP must demonstrate support for the autonomy of students with simultaneous guidance and assistance from the teacher. | | + | | |
| 62 | 6. | EP management must demonstrate the existence of a procedure for responding to students' complaints. | | + | | |
| 63 | 7. | The university should ensure the consistency, transparency and objectivity of the mechanism for evaluating learning outcomes for each EP, including the appeal. | + | | | |
| 64 | 8. | The university should ensure that the assessment of the results of the training of students of EP to the planned learning outcomes and program objectives. Criteria and assessment methods in the framework of the EP should be published in advance. | | + | | |
| 65 | 9. | In the university, mechanisms should be defined to ensure that each graduate of the PF master the learning outcomes and ensure the completeness of their formation. | | + | | |
| 66 | 10. | Assessors should possess modern methods of assessing learning outcomes and regularly improve their skills in this area. | | + | | |
| **Totalstandard** | | | **3** | **7** | **0** | **0** |
| **Standard "Students"** | | | | | | |
| 67 | 1. | The university should demonstrate the policy of forming a contingent of students from admission to graduation and ensure the transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) must be defined, approved, published. | + | | | |
| 68 | 2. | The administration of the EP must demonstrate the implementation of special adaptation and support programs for new and foreign students. | + | | | |
| 69 | 3. | The university must demonstrate the compliance of its actions with the Lisbon Recognition Convention. | | + | | |
| 70 | 4. | The university should cooperate with other educational organizations and national centers of the European Network of National Information Centers for Academic Recognition and Mobility / National Academic Information Recognition Centers ENIC / NARIC to ensure comparable recognition of qualifications. | | + | | |
| 71 | 5. | EP management must demonstrate the presence and application of a mechanism to recognize the results of academic mobility of students, as well as the results of additional, formal and non-formal training. | | + | | |
| 72 | 6. | The university should provide an opportunity for external and internal mobility of students of EP, as well as assist them in obtaining external grants for training. | | + | | |
| 73 | 7. | The EP's management should make the maximum amount of efforts to provide students with practical training places, to facilitate the employment of graduates, to maintain communication with them. | + | | | |

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| 74 | 8. | The university should provide graduates of EP with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content and status of education received and evidence of its completion. | + | | | |
| 75 | 9. | An important factor is the monitoring of the employment and professional activities of graduates of EP. | + | | | |
| 76 | 10. | The EP's management should actively encourage students to self-education and development outside the main program (extracurricular activities). | | + | | |
| 77 | 11. | An important factor is the existence of a valid alumni association / association. | | | + | |
| 78 | 12. | An important factor is the availability of a support mechanism for gifted students. | + | | | |
| **Totalstandard** | | | **6** | **5** | **1** | **0** |
| **Standard "Faculty"** | | | | | | |
| 79 | 1. | The university should have an objective and transparent personnel policy, including hiring, professional growth and staff development, ensuring the professional competence of the entire state. | + | | | |
| 80 | 2. | The university should demonstrate the compliance of the staff potential of faculty with the development strategy of the university and the specifics of the EP. | | + | | |
| 81 | 3. | The management of the EP must demonstrate an awareness of responsibility for its employees and ensuring for them favorable working conditions. | + | | | |
| 82 | 4. | The EP's management must demonstrate a change in the role of the teacher in connection with the transition to student-centered learning. | | + | | |
| 83 | 5. | The university should determine the contribution of teaching staff to the implementation of the university's development strategy, and other strategic documents. | + | | | |
| 84 | 6. | The university should provide opportunities for career growth and professional development of faculty staff EP. | | + | | |
| 85 | 7. | The administration of EP should involve practitioners of relevant branches in the teaching. | + | | | |
| 86 | 8. | The administration of EP should provide targeted actions for the development of young teachers. | + | | | |
| 87 | 9. | The university should demonstrate the motivation of professional and personal development of EP teachers, including encouraging both the integration of science and education, and the use of innovative teaching methods. | + | | | |
| 88 | 10. | An important factor is the active use of information and communication technologies in the educational process (for example, on-line training, e-portfolio, MEP, etc.). | | + | | |
| 89 | 11. | An important factor is the development of academic mobility within the framework of the EP, attracting the best foreign and domestic teachers. | | + | | |
| 90 | 12. | An important factor is the involvement of teaching staff in the community (the role of teaching staff in the education system, the development of science, the region, the creation of a cultural environment, participation in exhibitions, creative competitions, charity programs, etc.). | + | | | |
| **Totalstandard** | | | **7** | **5** | **0** | **0** |

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| **Standard "Educational resources and student support systems"** | | | | | | |
| 91 | 1. | EP management must demonstrate the adequacy of material and technical resources and infrastructure. | + | | | |
| 92 | 2. | The administration of the EP should demonstrate the presence of procedures for supporting various groups of students, including information and counseling. | | + | | |
| | | *The EP management must demonstrate the compliance of information resources with the specifics of the EP, including compliance with:* | | | | |
| 93 | 3. | technological support for students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs); | | + | | |
| 94 | 4. | library resources, including the fund of educational, methodical and scientific literature on general educational, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases; | + | | | |
| 95 | 5. | access to educational Internet resources; | | + | | |
| 96 | 6. | examination of the results of research, final works, dissertations on plagiarism; | | + | | |
| 97 | 7. | WI-FI functioning on the territory of the educational organization | | + | | |
| 98 | 8. | The university should strive to ensure that the training equipment and software used for the development of EP, were similar to those used in their respective industries. | | + | | |
| 99 | 9. | The university should ensure compliance with safety requirements in the learning process. | | + | | |
| 100 | 10 | The university should strive to take into account the needs of various groups of students in the context of EP (adults, working, foreign students, and students with disabilities). | | + | | |
| **Totalstandard** | | | **2** | **8** | **0** | **0** |
| **Standard "PublicInformation"** | | | | | | |
| | | *The information published by the university within the EP should be accurate, objective, relevant and should include:* | | | | |
| 101 | 1. | implemented programs, indicating the expected learning outcomes; | + | | | |
| 102 | 2. | information on the possibility of assigning qualifications at the end of the EP; | + | | | |
| 103 | 3. | information on teaching, learning, assessment procedures; | + | | | |
| 104 | 4. | information on passing points and training opportunities provided by students; | | + | | |
| 105 | 5. | Information about graduates' employment opportunities. | | + | | |
| 106 | 6. | The administration of the EP should use a variety of ways to disseminate information (including the media, web resources, information networks, etc.) to inform the general public and stakeholders. | + | | | |
| 107 | 7. | Public awareness should provide support and clarification of the country's national development programs and the system of higher and postgraduate education. | + | | | |
| 108 | 8. | The university should publish audited financial statements on its own web resource. | | + | | |
| 109 | 9. | The university should demonstrate the information on the web resource describing the university as a whole and in the context of the EP. | + | | | |

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| 110 | 10. | An important factor is the availability of adequate and objective information about the teaching staff of the EP, in the context of personalities. | | + | | |
| 111 | 11. | An important factor is informing the public about cooperation and collaboration with partners in EP, including with scientific / consulting organizations, business partners, social partners and educational organizations. | | + | | |
| 112 | 12. | The university should post information and links to external resources on the results of external assessment procedures. | | + | | |
| 113 | 13. | An important factor is the participation of the university and implemented EP in a variety of external evaluation procedures. | + | | | |
| **Totalstandard** | | | **7** | **6** | **0** | **0** |
| **Standards in the context of individual specialties** | | | | | | |
| **NATURAL SCIENCES, TECHNICAL SCIENCES AND TECHNOLOGIES** | | | | | | |
| | | *Educational programs in the areas of "TECHNICAL SCIENCES AND TECHNOLOGIES", "NATURAL SCIENCES", such as* ***"Ecology", "Electric Power Engineering", "Life Safety and Environmental Protection",*** *etc., should meet the following requirements:* | | | | |
| 114 | 1. | In order to familiarize students with the professional environment and topical issues in the field of specialization, as well as to acquire skills based on theoretical training, the education program should include disciplines and activities aimed at gaining practical experience and skills in the specialty in general and the major disciplines in particular , including:<br>- excursions to enterprises in the field of specialization (plants, workshops, research institutes, laboratories, educational and experimental farms, etc.),<br>- carrying out separate occupations or the whole disciplines at the enterprise of specialization,<br>- holding seminars to solve practical problems that are relevant to enterprises in the field of specialization, etc. | + | | | |
| 115 | 2. | The faculty involved in the education program should include full-time teachers with long-term experience as a staff member in enterprises in the field of specialization of the education program. | + | | | |
| 116 | 3. | The content of all disciplines of the EP should to some extent be based and include a clear relationship with the content of the fundamental natural sciences, such as mathematics, chemistry, physics. | + | | | |
| 117 | 4. | EP management must provide measures to enhance practical training in the field of specialization. | + | | | |
| 118 | 5. | The administration of EP should provide training for students in the application of modern information technologies. | | + | | |
| **Totalstandard** | | | **4** | **1** | **0** | **0** |
| **TOTAL** | | | **45** | **69** | **4** | **0** |