



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR
ACCREDITATION AND RATING

REPORT

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

5B073200 «Standardisation and certification (by industry)»
5B072800 «Technology for processing industries (by industry)»

KOSTANAY ENGINEERING AND ECONOMICS UNIVERSITY
named after M. DULATOV

Site-Visit Dates «11» to «13» December 2018

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
External expert commission

*Addressed to
Accreditation
advice of the IAAR*



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(I) DESIGNATIONS AND ABBREVIATIONS

AA – additional agreements;
ACS – automated control system;
AIS – automated information system;
APTECH - Applied Technologies;
CED – catalog of elective disciplines;
CIS – Commonwealth of Independent States;
CNC – computer numerical control;
CTA – Comprehensive testing of applicants;
CTE – credit technology of education;
DLT – distance learning technologies;
EALA – external assessment of learning achievements;
EB – education board;
EEC – External expert commission;
E-library – electronic library;
EMC – educational and methodological council;
EMCD – educational and methodological complex of discipline;
EMCS – educational and methodological complex of specialty;
EMW – educational and methodological work;
EP – educational program;
EPDC – Education Programme Development Committee;
EW – educational work;
FDL – Faculty of Distance Learning;
GS – general subjects;
HACCP – Hazard Analysis and Critical Control Points;
HEI – higher educational institution;
HVT – higher vocational training;
IAAE – International Academy of Agricultural Education;
IAAR – Independent Agency for Accreditation and Rating;
IC – individual curriculum;
ICT – information communications technology;
IIA – International Informatization Academy;
IS – international standard;
IS ISO – international standard of International Organization for Standardization;
IT – information technology;
ITC – information technology center
IWL/IWS – independent work of learner/student;
JSC – joint-stock company;
KEnEU – Kostanay Engineering and Economics University;
KNA NS – Kazakhstan National Academy of Natural Sciences;
KSU – Kostanay State University named after A. Baitursynov;
LC – labor contract;
LLP – limited liability partnership;
MA RK – Ministry of Agriculture of the Republic of Kazakhstan;
MC – model curriculum;
MCI – monthly calculation index;
MEP – managerial and executive personnel;
MEP – modular educational programs;
MES RK – Ministry of Education and Science of the Republic of Kazakhstan;
MM – mass media;
MTB – material and technical base;

PACS – Physical Access Control System;
QMS – quality management system;
RIC – regional innovation center;
RIEL – republican interuniversity electronic library;
RO – registrar's office;
RPA – research and production activities;
RSCI – Russian Science Citation Index;
RSE – Republic state enterprise;
RSME on the REM – republican state municipal enterprise on the right of economic management;
RSW – research scientific work;
RSWL/RSWS – research scientific work of learner/student;
SAC – state attestation commission;
SCS – state compulsory standard;
SCSE RK – state compulsory standard of education of the Republic of Kazakhstan;
SIWT – student's independent work with teacher;
SLA – statutory legal act;
SME – state municipal enterprise;
SP – study program;
SPCAE – Scientific production center of agricultural engineering;
SSS – student scientific society;
STR – Student traffic records;
SW – scientific work;
TC – Technical Committee;
TS – Teaching staff;
TSS – teaching and support staff;
TVT – technical vocational training;
UNT – unified national test;
USMHE – unified system of management of higher education;
Vice-Rector for AD – Vice-Rector for Academic Development;
Vice-Rector for CD – Vice-rector for corporate governance;
Vice-Rector for STSI – Vice-Rector for Strategic Development, Science and Innovation;
WC – work curriculum.

(II) INTRODUCTION

In accordance with Order №123-18-OD dated 28.11.2018 of Independent Agency for Accreditation and Rating from 11 to 13 December 2018, the external expert commission assessed the compliance of OP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)" of Kostanay Engineering and Economics University named after M. Dulatov with IAAR specialized accreditation standards (dated 24 February 2017 № 10-17-OD, fifth edition).

The report of the External Expert Commission (EEC) contains an assessment of compliance of activities of M. Dulatov Kostanay University of Engineering and Economics within the framework of specialized accreditation criteria of the IAAR, EEC recommendations for further improvement of parameters of the specialized profile.

Members of EEC:

1. **Chairman of the Commission** - Pogrebitskaya Marina Vladimirovna, Candidate of Pedagogical Sciences, Associate Professor, North Kazakhstan State University named after M. Kozybayev (Petropavlovsk).

2. **Foreign expert** - Elena Evgenievna Sokolova, Candidate of Economic Sciences, Associate Professor, National Aviation University (Kiev, Ukraine).

3. **Foreign expert** - Alexey Mikhailovich Gostin, Candidate of Technical Sciences, Associate Professor, Ryazan State Radio Engineering University (RGRTU) (Ryazan).

4. **Expert** - Kegenbekov Zhandos Kadyrkhanovich, Candidate of Technical Sciences, Associate Professor, Kazakh-German University (Almaty).

5. **Expert** - Abishev Kairotolla Kayrollinovich, Candidate of Technical Sciences, Associate Professor, Pavlodar State University named after S. Toraigyrov (Pavlodar).

6. **Expert** - Rakhimov Murat Amanzholovich, Ph.D., associate professor, Karaganda State Technical University (Karaganda).

7. **Expert** - Malika Akhyadovna Saidulaeva, Karaganda State Medical University (Karaganda).

8. **Expert** - Nurlan Narkenovich Tashatov, Candidate of Physical and Mathematical Sciences, Associate Professor, Eurasian National University named after L.N. Gumilyov (Astana).

9. **Expert** - Musabekov Rasulbek Akylbekovich, Ph.D., associate professor, Almaty University of Energy and Communications (Almaty).

10. **Employer** - Bekmagambetov Gabiden Baurzhanovich, project manager of the human capital development department of the Chamber of Entrepreneurs of the Kostanay region (Kostanay).

11. **Employer** - Aleksey Vasilyevich Korniyasev, chief engineer of AgromashHoldingKZ JSC (Kostanay).

12. **Student** - Anuarbekova Diana Talgagyzy, 4th year student of EP "5B080100-Agronomy", Kostanay State University named after A. Baitursynov (Kostanay).

13. **Student** - Nusipbek Nurlybek Nusipbekuly, 4th year student of EP "5B073200-Standardization and Certification", Kostanay State University named after A. Baitursynov (Kostanay).

14. **Student** - Amanova Oralai Maulenovna, 3rd year student of EP "5B071700-Heat Power Engineering", Rudny Industrial Institute (Rudny).

15. **Agency observer** - Timur Erbolatovich Kanapyanov, PhD, Head of International Projects and Public Relations of the IAAR (Astana).

(III) EDUCATIONAL ORGANIZATION

Kostanay Engineering and Economics University named after Myrzhakyp Dulatov (KEnEU) is a higher educational institution with the status of a legal entity that implements professional educational programs of higher and postgraduate education.

KEnEU has the necessary regulatory documents for conducting educational activities (license №12020748 dated 05.11.2012, KEnEU Charter, a package of internal regulatory materials, professional educational programs).

Kostanay Engineering and Economics University named after M. Dulatov is the first private higher educational institution in the Kostanay region, which arose as a result of the changed economic and social conditions in independent Kazakhstan, the history of formation and development of which is 22 years old. The basis for its emergence, formation and further development was the opening in 1996 of the Institute of Business and Management LLP, transformed a year later into the Institute of Business and Management, in which students studied in three economic specialties: "Economics and Management", "Accounting and Audit", "International Economic Relations".

Currently, the structure of the University includes 3 faculties (Economics, Engineering and Technology, Faculty of Distance Learning), 7 departments (Standardization and Food Technologies, Information Technology and Automation, Transport and Service, Energy and Mechanical Engineering, Accounting and Finance, Economics and Management, General Education). There is a Center for Work with Students, a Center for Recruiting Applicants and Work with Alumni, a Digital Academy, a Center for Project Development and Implementation, an Entrepreneurship Center, a STARTUP Academy, a Co-working Center, etc.

In an effort to become a leading entrepreneurial, socially responsible university, focusing on the higher schools of entrepreneurship in the world, the university is actively working to create and implement the following innovative projects:

- the functioning of the training laboratory "Company Accountant and 1C Accounting" using the experience of Germany under the program of the German Society for International Cooperation (GTZ) and the opening of the Certified Training Center of the "1C" company in 8 profile and 2 school directions;

- functioning with the aim of training world-class specialists in IT technologies, the International Scientific and Educational Center for Computer Technologies APTECH (Applied Technologies) was created as an official representative (license № 0122 of the franchise agreement dated December 20, 2012 of the APTECH Corporation, Mumbai) ;

- functioning of the innovative educational laboratory "Modeling and application of technological processes" with CNC machines.

Seven university departments provide training in 19 bachelor's degrees and two master's degrees.

As of October 1, 2018, the contingent of full-time students was 2,194 people, of which 51 were based on state educational grants, and 55 undergraduates.

Currently, the total number of full-time teachers at the university is 112 people. The staff includes 5 doctors of sciences, 2 professors, 52 candidates of sciences, 21 associate professors, 3 PhD doctors, 40 masters. The university employs 24 people who are part of the MAAO, MAIN, and AEN RK.

Since the 2011-2012 academic year, KEnEU has been using distance learning in case study, network and TV technologies for all undergraduate specialties. The distance learning system Elsyma, developed by the university staff, is the only one in the northern region. This allows students to study online. These technologies allow using all scenarios of e-learning training. These scenarios are being developed within the Tempus project funded by the European Commission.

Today, the university trains personnel for the national economy of Kazakhstan and, in particular, for the northern region. Over twenty-two years, the university has trained more than 20 thousand people in engineering, agricultural and economic fields.

The university trains specialists in close cooperation with the main employers of the region (KF JSC "Agromash-Holding"; LLP "SaryarkaAvtoProm"; LLP "Ivolga-Raster"; LLP "Company of Energy-Efficient Technologies"; JSC NCEX, Bayan-Sulu JSC; Evraz Caspian Steel LLP; Zatobolskaya Heating and Power Company SCP; KTZ - Cargo Transportation - Kostanay GP Department JSC; Alliancom LLP; Kostanay Mill Plant JSC; Baltic Control Kazakhstan LLP, etc.).

Managers of the largest enterprises and firms joined the Board of Trustees of the University. Many heads, heads of departments, chief specialists of organizations and enterprises, city and regional administrations are graduates of the University (<http://kineu.kz/popechitelskij-sovet>).

The University has a modern level of material and technical base, ensuring the provision of quality educational services and the implementation of the mission, goals and objectives of the university. New classrooms are put into operation every year due to the modernization of fixed assets. In 2005, a new sport hall with a total area of 1087.5 m² was built using own funds, in 2007 an administrative building with a total area of 2935.3 m² was commissioned, in 2012 an academic building with a total area of 561 m² was built, in 2011 the academic building B was expanded by building the 5th floor with a total area of 588.4 m². In 2014, an attic extension of the 5th floor of building A was commissioned, with a total area of 720.7 m².

The University is a signatory of the Great Charter of Universities (Magna Charta Universitatum Bologna). In 2014, according to the results of the national rating of the Independent Kazakhstan Agency for Quality Assurance in Education (IQAAE) and the Centre of Bologna Process and Academic Mobility of MES RK, the best educational programmes of the university were recognized: "Organization of transportation, traffic and operation of transport" - 4th position, "Standardization, certification and metrology" - 9th position, "Economics" - 10th position, "Electric power engineering" - 11th position.

In 2015, the university underwent institutional and specialised accreditation for 8 programs at the NAAR. The educational programs "Transport, Transport Engineering and Technology", "Standardization, Metrology, Certification", "Agrarian Engineering and Technology", "Automation and Management", "Computer Engineering and Software" and "Agronomy" are accredited for 3 years, "Organization of Transportation, Traffic and Operation of Transportation" and "Mechanical Engineering" for 5 years (<http://kineu.kz/akkreditatsiya/>).

In 2018, the university took part in the rating of the National Chamber of Entrepreneurs "Atameken": 5B080600 Agricultural machinery and technology – 1, 5B080100 Agronomy – 2, 5B090100 Organization of transportation, traffic and operation of transport – 3, 5B071200 Mechanical engineering – 2, 5B073200 Standardization and certification (by industry) - 3, 5B070400 Computer science and software - 5, 5B070200 Automation and control - 6, 5B071300 Transport, transport equipment and technologies - 7, 5B090900 Logistics (by industry) - 7, 5B071700 Heat power engineering - 8.

Since 2012, a library of KEnEU has had access to Thomson Reuters "Web of Knowledge", "Science Direct" and "Scopus" international full-text resources.

The University annually hosts international scientific and practical conferences with the participation of leading specialists, scientists from universities of the near and far abroad.

The development of international cooperation is actively supported. The University has signed 28 agreements on cooperation in the field of science and education with foreign universities and organizations, including Weihenstephan-Triesdorf University (Germany, Freising), Caucasus International University (Georgia, Tbilisi), and others.

(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

In accordance with the order of the Independent Agency for Accreditation and Rating 29-15-OD dated 16.11.15, from November 18 to 20, 2015, an external expert commission assessed the compliance of the educational program 5B073200 "Standardization, Certification and

Metrology" (by industry) with the standards of specialized accreditation of the IAAR (dated April 26, 2012, No. 08-OD, second edition).

Members of the previous EEC in the KEnEU named after M. Dulatov:

1. Chairman of the Commission - Vladimir Nikolaevich Kosov, Doctor of Physics and Mathematics, Professor, Kazakh National Pedagogical University named after Abai.

2. Foreign expert - Petr Hajek, PhD, professor of the Central Bohemian University (Prague, Czech Republic);

3. Expert - Gulnara Bayanovna Turtkaraeva, Candidate of Pedagogical Sciences, Associate Professor, Kokshetau State University named after Sh. Ualikhanov (institutional);

4. Expert - Khamraev Sheripidin Itakhunovich, Ph.D., Associate Professor, Kazakh National Pedagogical University named after Abai (1 cluster);

5. Expert - Sembaev Nurbolat Sakenovich, Ph.D., Pavlodar State University named after S. Toraigyrov (1 cluster);

6. Expert - Aldabergenova Saule Salimzhanovna, M.Sc., Kazakh Agro Technical University named after S. Seifullin (2 cluster);

7. Expert - Akhmedyanov Abdulla Ugubaeovich, Ph.D., Associate Professor, Eurasian National University named after L.N. Gumilyov (cluster 2);

8. Employer - Olkinyan Lyudmila Yurievna, Director of the Center for Personnel Training and Development of AgromashHolding JSC and SaryarkaAvtoProm LLP (Kostanay);

9. Student – Abilnasirova Symbat Adilbekkyzy, 3rd year student of ENU named after L.N. Gumilyov;

10. Agency observer – Kanapyanov Timur Erbolatovich, head of international projects of the Agency (Astana).

As a result of the work of the EEC, recommendations were given on the specialized accreditation of the educational program 5B073200 "Standardization, certification and metrology" (by industry):

- to improve activities to involve subjects of the educational process in the design of EP contents:

For this event, heads and specialists of the enterprises of the Kostanay region were involved, such as AgromashHolding JSC, Ivolga Holding LLP, Evraz Caspian Steel LLP, Baltic Control Kazakhstan LLP. In general, this recommendation has been implemented.

- to intensify cooperation with domestic and foreign universities that implement similar educational programs:

In order to enhance cooperation with foreign universities implementing similar educational programs, KEnEU cooperates with the following universities/research organizations: Autonomous Non-Profit Organization “Kazan Cooperative Institute of the Russian University”; GOU HPE “Moscow State Regional Humanitarian Institute”; “Humanitarian and Technical Academy of the City of Kokshetau”; PI “Innovative Eurasian University”; “Kazan Cooperative Institute of the Russian University of Cooperation”; “Kazakh University of Railway Transport”; “Kazakh University of Technology and Business”; “KSU named after A. Baitursynov”; HPE “Ural Institute of Stock Market”; “Taraz Technical University”; PI RK “Institute of Partner and Business”. This recommendation is being implemented, but not at a sufficient level. External mobility of teaching staff and students is not implemented.

- to develop a risk assessment mechanism for the implementation of educational programs:

In order to develop a mechanism for assessing risks in the implementation of educational programs at all departments, EP development plans have been developed, which detail the mechanisms for assessing risks in the implementation of EP with terms and persons responsible for each action to reduce the impact of risks for this educational program. This recommendation is being implemented, but not sufficiently. Information on these types of work is reflected only in the development plan of the EP.

- to intensify work on cooperation with leading universities of the Republic of Kazakhstan and foreign universities in the framework of joint research and harmonization of educational programs:

This recommendation is being implemented at a sufficient level; there are partners, both foreign and domestic.

- to systematize and intensify the use of innovative technologies in the educational process, ensure the development of own educational technologies:

To implement this recommendation, the teaching staff of the EP actively uses innovative methods and forms of education in the educational process and pay great attention to the implementation of modern teaching methods and means of cognitive activation of students.

Candidate of Science in Chemistry, Associate Professor Eseeva G.K. highly professionally conducts the organization of independent work of students in the studied disciplines “Biotechnology of agricultural plants” and “Biology” through directed scientific work. Senior teacher Zhamalova D.B. skillfully uses ecological culture in training specialists as a factor of readiness for professional activity of a graduate. Senior teacher Nazarova Zh.Zh. improves the methodology of teaching agricultural disciplines during laboratory and practical exercises using a multimedia complex by developing slides, presentations, etc. In general, for the post-accreditation period, this recommendation is being implemented at a sufficient level.

- to carry out work to ensure the continuity of the content of the accredited EP (opening of the 2nd level of education - Master's degree) at the university.

This recommendation has not been implemented due to changes in the Classifier of specialties.

- to intensify work on the development of academic mobility of teaching staff.

At the moment, work on the development of academic mobility of teaching staff is determined only by internships and the reading of short-term lectures.

The teaching staff of KEnEU visited the Kazakh University of Railways (Almaty), the Innovative Eurasian University (Pavlodar) to deliver lectures as part of the academic mobility program.

At the same time, the above business trips are only in the nature of an internship and exchange of experience, therefore, it is necessary that the results of cooperation are cooperation agreements, as well as joint research.

In general, this recommendation is being implemented at a sufficient level.

- to work out mechanisms to stimulate the professional and personal development of teaching staff and employees.

To conduct this event, the university has developed, implemented and fully functions a new rating system for teaching staff and university staff.

- to ensure purposeful work on the publication of scientific articles of teaching staff in journals with an impact factor in the databases “Thompson Reuters” and “Scopus”.

In order to ensure purposeful work on the publication of scientific articles of the teaching staff in journals with a non-zero impact factor, teaching staff of the EP closely cooperate with the leading educational institutions of the republic and neighboring countries. This contributes to the generation of scientific ideas, the study of international experience, which ultimately leads to an improvement in the quality of education.

In general, the recommendation is partially implemented at a sufficient level.

- to systematize work on improving the qualifications of teaching staff in production and specialization:

The university has created conditions for advanced training and internships for teaching staff at the enterprises of the city and region. The university has agreements on cooperation with the leading industrial organizations in the region, including on advanced training. In general, this recommendation is being implemented at a sufficient level.

- to work on the establishment of an alumni association:

For these purposes, the “Union of KEnEU alumni” was created at KEnEU, a public association convened to carry out activities determined by the community of interests aimed at uniting the interests of university graduates.

In general, this recommendation is being implemented at a sufficient level.

- to strengthen the work on the implementation of internal and external academic mobility of students:

The recommendation is at the stage of implementation and additionally requires the conclusion of an agreement for the implementation of academic mobility with other universities of the Republic of Kazakhstan and abroad.

- to intensify the participation of students in research works:

Students of educational programs participate in university and republican competitions of scientific works. Students have publications jointly with teachers and in separate student collections, for the analyzed period there were about 30 publications. The university has a positive trend in the number of student publications in various publications. This is facilitated by attracting students to participate in scientific research contractual work.

The results of SRWS are presented by diplomas and certificates, as well as published materials of scientific conferences, scientific publications.

In general, there is a positive trend in attracting students to research and development, and this recommendation is being implemented at a sufficient level.

- on a systematic basis, continue equipping the material and technical base with modern equipment for the EP 5B080600 “Agricultural equipment and technology”, 5B073200 “Standardization, certification and metrology” (by industry), 5B080100 “Agronomy”:

The material and technical base of EP 5B080100 “Agronomy” and EP 5B073200 “Standardization and certification” is represented by 5 assigned laboratories and one specialized office.

In order to strengthen the material and technical base, the staff of the Department of Standardization and Food Technologies regularly replenishes the laboratory fund with chemical utensils, reagents, processing equipment, educational and information posters, sheaves and models. One of the important indicators noted in the strategic development plan of the department is the preparation of the laboratories “Examination of the quality of grain products” (309 “B”) for certification. An application for the purchase of equipment was organized and submitted: an express analyzer for a comprehensive assessment of grain products, a set of equipment for complex heat treatment of raw materials and semi-finished products within the SPIID. In the future, the organization of the laboratory "Determination of the quality of seed" and "Confectionery mini shop" is planned. An application has also been submitted for the purchase of a set of equipment for complex heat treatment of raw materials for EP 5B080600 “Agricultural equipment and technology”.

The recommendation is at the stage of implementation and additionally it is required to equip the material and technical base with modern equipment.

- to intensify the annual release of scientific and educational-methodical literature by the teaching staff to provide elective EP courses:

According to the plan of publication of methodological developments of departments, work on the preparation of methodological materials in the state language of instruction has been intensified.

The departments carry out a great deal of work to ensure the educational process with all regulated documents. Educational and methodological support at the departments is developed in accordance with the disciplines assigned to them. The plan of publications by departments is carried out in a timely manner.

Among the normative and methodological developments carried out at the university, the developments of the Technical Committee for Standardization 44 “Technologist” (Chairman, Candidate of Agricultural Sciences A.A. Muratov) have acquired great relevance and demand.

In general, the recommendation has been implemented at a sufficient level.

On December 12, 2015, by the decision of the IAAR Accreditation Council, the educational program 5B073200 “Standardization, certification and metrology” (by industry) was accredited for 3 (three) years. The educational program 5B072800 – “Technology of processing industries (by industry)” is being accredited in the IAAR for the first time.

(V) DESCRIPTION OF THE EEC SESSION

The work of the EEC was carried out on the basis of the Visit Program of the Expert Commission on Institutional Accreditation of the Kostanay Engineering and Economics University named after M. Dulatov in the period from 11 to 13 December 2018.

In order to coordinate the work of the EEC, on December 10, 2018, an opening 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 accordance with the requirements of the standards, the program of the visit covered meetings with the rector, vice-rectors, heads of structural divisions, deans, heads of departments of the university, teachers, students, alumni, employers and employees from various departments, interviews and questioning of teachers and students. A total of 227 people took part in the meetings (Table 1).

Table 1 - Information about employees and students who took part in the meetings with the EEC of the IAAR:

Category of participants	Number
Rector	1
Vice-rector	4
Heads of structural divisions	15
Deans of faculties	3
Heads of departments	7
Teachers	49
Students, undergraduates, doctoral students	83
Alumni	43
Employers	22
Total	227

EEC members attended training sessions:

- in the discipline “Technical regulation of food security”, the topic “Rules for the registration of the Customs Union declaration”, 2nd year, specialty 5B073200 - Standardization and certification, teacher - candidate of agricultural sciences, associate professor Gaidai I.I. (room 302, building B);

- in the discipline “Technology and organization of production of bread and bakery products”, topic “Making lentil bread”, 3 course, specialty 5B072800 - Technology of processing industries, teacher - candidate of agricultural sciences, associate professor Mukasheva T.K. (room 101, building A).

During the excursion, the EEC members got acquainted with the state of the material and technical base, visited the conference hall, the KEnEU library, the assembly hall, the sports complex, the laboratory of Internet technologies for distance learning, computer classes, the International Scientific and Educational Center of Computer Technologies “APTECH- KEnEU”, educational laboratory “Accountant of the company + 1C”, laboratory “Technology of confectionery production” (mini-shop), “Mechanics of liquid and gas” laboratory, laboratory of electronics and the basics of microprocessor technology, networks and telecommunications, “Labor protection and safety” laboratory, “Descriptive geometry and engineering graphics” office; laboratories: “Chemistry”, “Standardization and certification”, “Technology of storage and processing of grain”, “Machine parts and lifting and transport mechanisms”, “Electric machines”, “Organization of train traffic”, “Technological processes of machine-building

production”, “Heat supply and energy-saving technologies”, “Theoretical foundations of electrical engineering”, “Modeling of technological processes”.

The events planned during the visit of the IAAR EEC contributed to familiarizing the experts with the practice bases. The expert group visited SaryarkaAvtoProm LLP - a domestic car manufacturer, the only factory in Kazakhstan that meets the requirements of industrial assembly, within which welding, painting and assembly of car bodies are performed. The range of products manufactured today is represented by the following brands: JAC, Peugeot, IVECO, ANKAI, Hyundai, Ravon, Chevrolet Niva.

The experts visited “Kostanay Melkombinat” JSC, which is the center for the study and development of grain processing technologies. On the basis of this enterprise, there is a branch of the Department of Standardization and Food Technologies.

In accordance with the accreditation procedure, a survey was conducted of 47 teachers, 85 students, including junior and senior students.

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

All conditions have been created for the work of the EEC; access to all necessary information resources has been organized. The KEnEU team ensured the presence of all persons indicated in the visit program, observing the established time interval.

As part of the planned program, recommendations for improving the activities of KEnEU, developed by the EEC based on the results of the examination, were presented at a meeting with the management on December 13, 2018.



(VI) COMPLIANCE WITH THE STANDARDS OF SPECIALIZED ACCREDITATION

6.1. «Educational programme management» standard

The evidentiary part

The development and management of EP specialties 5B073200 - "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)" is carried out in accordance with Dublin descriptors, agreed with the European qualifications framework. The activity of the department "Standardization and food technologies" - hereinafter "SFT" is organized in accordance with the stated mission, vision, goals and objectives, as well as the development strategy of KEnEU for 2011-2020 and is aimed at their implementation. The university's quality assurance policy, Mission and Vision, are posted on the open resource <http://kineu.kz/istoriya-vuza/>, as well as on the internal resource \\ server \ iso9001 and thus are available to employees, students, employers, stakeholders and other interested parties.

The relationship between research, teaching and learning is reflected in the introduction into the educational process of the results of scientific research of students in the framework of thesis in the educational process.

Direct organization, development of documents, management, control of implementation, monitoring and other operational issues in the field of quality of educational activities are carried out by specially created structures at KEnEU and appointed persons (Vice-Rector for Strategic Development and Innovation, Vice-Rector for Academic Development, Vice-Rector for Corporate Governance), educational - methodical advice; educational process planning department, educational process planning department, educational process organization and control department).

Learning trajectories for accredited EP are developed in accordance with the requirements of the State Educational Standard, approved by the Decree of the Government of the Republic of Kazakhstan dated August 15, 2017 № 484 "On approval of the State Educational Standard of the appropriate levels of education", the National Qualifications Framework approved by a joint order of the acting Minister of Labor and Social Protection of the Population of the Republic of Kazakhstan dated 24.09.2012 № 373.

The mechanism of EP formation is established by the Regulation "On the development of educational programs" The EP management monitors the implementation of the EP development plan and the effectiveness of the plan's implementation in accordance with the EP monitoring and evaluation procedure. The regulation on monitoring the quality of the educational program consists of several stages: "Preparation of the educational program documentation"; "External evaluation of the EP"; "Internal evaluation of the EP"; "Analysis of quantitative and qualitative indicators of EP"; "Monitoring practice (research on the passage of practice)"; "Preparation of a monitoring report"; "Revision of the EP development plan." External evaluation of the EP is carried out with the involvement of stakeholders.

Representatives of employing organizations, whose activities are directly related to the specifics of the EP, take part in the design and implementation of accredited EPs in accredited specialties, such as: "KazInSt" KF, "Kostanay Agricultural Research Institute" LLP, "National Centre for Expertise and Certification" JSC, "KazAgrex" JSC, JSC "Bayan-Sulu", RSE "Republican Veterinary Laboratory" of the Ministry of Agriculture of the Republic of Kazakhstan, which express the interests and views characteristic of most employers in this area.

In order to develop a mechanism for assessing risks in the implementation of educational programs, the department has developed plans for the development of EP, which detail the mechanisms for assessing risks in the implementation of EP with the timing and responsibility for each action to reduce the impact of risks for this educational program. However, this work is not being fully implemented. Information on these types of work is reflected only in the development plan of the EP.

In general, the uniqueness and individuality of the accredited EP 5B073200 “Standardization and certification”, 5B073200 “Technology of processing industries” lies in the fact that they are aimed at training specialists taking into account the needs of the labor market of the agro-industrial complex of the Kostanay region, which is consistent with the national development priorities and development strategy of KEnEU.

The transparency of the system of effective management of educational programs is ensured by observing the following principles:

- Availability of information on all areas of the university's activities for interested parties.

The internal portal provides access to the following intra-university systems: alumni database, library, video conferencing control log, ratings, test constructor and university automated control system. An external web portal provides communication for students, teachers, administration, the public and Internet users.

- Functioning of a multi-channel feedback system. The site has the following interactive services: the rector's blog, where control is carried out, records are kept, operational preparation and posting of answers to the questions of the rector's blog, a feedback service by commenting (it is enough to select any social network in which the user is registered and write on behalf of this profile. social network), records of calls to the book of complaints.

- Formation of a complete base of normative documentation and its availability for teaching staff and students (<http://cabinet.kineu.kz/login.php> , \\ server \ iso9001;

- Implementation of information systems that support all educational programs. The entire educational process and all data of students are stored and processed in the automated control system of the university, which includes the following modules: “Applicant”, “Book of orders”, “Office”, “Ratings”, “Registration Department”, “Dean's office”, “Automated knowledge testing system”, “Student's personal account”.

Transparency in the creation of strategic and operational management documents is the basis for effective management and team involvement in defining long-term and short-term prospects. Educational programs being implemented with an indication of the expected learning outcomes are published on the KEnEU website in the sections “Applicant” and “Education” <http://kineu.kz/obrazovatelnye-programmy/>, <http://kineu.kz/specialnosti/>

The availability of minutes of meetings of the Academic Council, Administration, Board of Trustees, regulations on the organization of the work of these bodies, the schedule and agendas of meetings, as well as reports are posted on the server of KINEU and are available to all users (\\server\Public\УЧЕНЫЙ СОВЕТ, \\server\Public\ПОПЕЧИТЕЛЬСКИЙ СОВЕТ, \\server\Public\РЕКТОРАТ, \\server\Public\ОТДЕЛ КАДРОВ).

The KEnEU website (<http://kineu.kz>) is represented by the pages of the departments and personal pages of the teaching staff, the sub-sites of the rector, the applicant, and the student. The site provides information through the publication of news, announcements and review of events.

The site [http //: kineu.kz](http://kineu.kz) is used for feedback using a comment form, the peculiarity of which is that you do not need to register on the site to start commenting, you just need to select any social network in which the user is registered and write on behalf of the profile this social network. The EEC made an anonymous online request through the website (via WhatsApp) and a detailed response was received within 5 minutes.

Under the EP “Standardization and Certification” the technical committee for standardization “TK - 44 Technologist” and the interstate technical committee MTK-534 are working, students have the opportunity to participate in the development and examination of national (ST RK) and interstate standards (GOST).

According to the rating conducted by NPP “Atameken”, EP “Standardization and Certification” is ranked 19 out of 37 universities (<http://atameken.kz/ru/services/44-rejting-obrazovatel-nyh-programm-vuzov>). The Independent Agency for Accreditation and Rating (IAAR) has identified the best universities in Kazakhstan “TOP-20” in 2018, including the Kostanay Engineering and Economics University named after M. Dulatov.

Analytical part

However, the following issues related to this standard were not fully reflected in the self-report and were not confirmed during the EEC visit.

Quality assurance policy does not sufficiently articulate the link between research, teaching and learning.

The University Internal Quality Assurance Policy requires updating and dissemination. The university does not track the implementation of the QMS, does not conduct audits and processes quality assurance.

The EEC notes that the issue of the mechanism of innovation management within the framework of EP 5B073200 “Standardization and certification (by industry)”, 5B072800 “Technology of processing industries (by industry)” this opinion was confirmed during interviews with heads of EP, teaching staff, students and employers and in the analysis of the submitted documentation.

Also, in the course of its work, EEC did not receive confirmation of the work of the EP management on risk management. The risks are spelled out only in the plans for the development of the EP; there are no documents on the analysis and measures to prevent risks.

According to the results of the survey of the teaching staff:

- 42.6% are very satisfied with the encouragement of innovative activities of the teaching staff;
- 6.4% rate the perception of criticism by the university management and administration as low;
- 53.2% are satisfied with the feedback of the teaching staff with the management;
- 46.8% highly appreciate the support of the university and its leadership in the development of new educational programs.

According to the results of the questionnaire survey, the level of accessibility and responsiveness of the university management is “completely satisfied” - 23.4 %, “partially satisfied” - 76.6% of students.

Strengths/Best practices:

- Having the only technical committee for standardization in the northern region “TC-44 Technologist” and the interstate technical committee MTK-534, students have the opportunity to develop skills in the development and examination of national (ST RK) and interstate standards (GOST).

Recommendations of the EEC for EP 5B073200 “Standardization and certification (by industry)”, 5B072800 “Technology of processing industries (by industry)”:

- Carry out a set of measures to update and disseminate the Internal Quality Assurance Policy.
- Conduct training for heads of departments and educational programs in the field of risk management; implement risk management at the level of structural units, processes and educational programs.

Conclusions of the EEC on the criteria of the standard “Educational programme management” for EP 5B073200 “Standardization and certification (by industry)”, 5B072800 “Technology of processing industries (by industry)”: strong - 4, satisfactory - 10, requiring improvement - 3.

6.2. «Information management and reporting» standard»

The evidentiary part

The university has implemented information management processes, including collection and analysis. In the management of the main processes of the university (educational, methodological, scientific, educative) the following administrative documents are used:

decisions of collegial management bodies (Educational and Methodological Council, Academic Council, Rector's Office), orders of the Rector and orders of Vice-Rectors in the areas of activity, documents on students (orders on personnel, students, master students), planning, analytical, reporting, financial and accounting documents, etc.

In all departments of the university records management is conducted in accordance with the approved nomenclature of cases, preservation and archiving of documents is provided. Responsibility for reporting to the Ministry of Education and Science of RK and other agencies on the activities of the university, the provision of public services, working with the Unified System of Management of Higher Education (USMHE) is fixed in the administrative documents of the rector.

The following systems of information collection, analysis and management based on the use of modern information and communication technologies and software are implemented in the university:

- Information management within the official university portal <https://kineu.kz>. The portal provides information and communication for students, teachers and other stakeholders. The site provides information on the management of educational, methodological, scientific, educational processes; there are web pages of individual departments: faculties, departments, personal pages of the teaching staff. Some sections of the website are oriented to different categories of users: applicants, students, masters, graduates and teaching staff. The website has a modern dynamic design, there is a rector's blog, a news section with video content, and there are representatives of the University in social networks. The website is managed centrally. The Head of the Department of Marketing and Communications is responsible for the content of the website.

- Information management within AIS "Platonus" is carried out in terms of interaction and uploading of reports on learners to the USMHE, software integration of AIS "Platonus" with "AIS VUZ" has been established;

- The automated management system "AIS VUZ" developed by the university is used to work with the contingent of students and is used by the Admissions Committee, dean's offices, academic management, student office. Also, the "AIS VUZ" is used to assign the admission of students to examinations and sessions, matching tests for testing. The "AIS VUZ" includes modules "Applicant", "Order Book", "Office", "Ratings", "Registration Department", "Dean's Office" and "Automated Knowledge Testing System". Experts note that the advantage of "ASU VUZ" are great opportunities for statistical analysis of information and monitoring the quality of the educational process, including test current control of progress and analysis of the results of midterm and final state attestation of students; monitoring of compliance of educational programs with the requirements of SCSE, completeness of their provision with teaching materials; monitoring of quality indicators of activities of educational units.

- The student's personal profile <http://cabinet.kineu.kz> includes an academic calendar, a guidebook, links to the catalogue of elective disciplines and a list of specialty-specific internships. The student's personal account also contains information on the student's current progress, examination results, rating grades and information on the student's tuition fee.

- The distance learning system developed by the university <http://do.kineu.kz> provides students with access to the resources of the electronic library, which stores electronic educational resources and teaching materials, as well as the webinar system based on Adobe Connect technology.

- The library management information system includes the library website, the electronic catalogue in the KABIS system, access to library resources: RIEL (Republican Interuniversity Electronic Library of Kazakhstan), the Web of Science Core Collection, Scopus, the Russian scientific citation index eLibrary (RSCI).

The University ensures that information is open and accessible to all interested parties and that there is a functioning mechanism for communication with students, employees and other stakeholders.

The information collected as part of this monitoring, in particular, takes into account

- key performance indicators;

- accessibility of educational resources and support systems to learners;
- employment and career progression of graduates.

Information security is ensured by the distribution of roles and functions in the used information systems; availability of installed anti-virus software; system administration of servers; backup system on the servers; restricted access of individuals to the premises with servers; technical equipment of premises with servers to ensure work security.

The reporting system includes annual reports of the structural units, reports on RSW and RSWS and financial reporting.

The system of collection, analysis and management of information at KEnEU named after M. Dulatov is used to ensure the quality of EP implementation, which is confirmed by the relevant internal regulatory documents.

The system of information and feedback is focused on students and employees, and includes information stands in the departments, functioning of the official website of the university in three languages.

The main forms of feedback are:

- direct mail of the rector in the form of boxes of complaints and suggestions posted in each educational building;
- feedback forms posted on the university website;
- Rector's blog posted on the university website;
- questioning of consumers of educational services and personnel.

Representatives of student youth who are part of the Academic Council have the opportunity to make a complaint or claim directly at a meeting of the Academic Council and get an answer about the timing and methods of resolving the problem.

Students and teaching staff, employers are involved in the processes of collecting and analyzing information through questionnaires, interviews, and making decisions based on them during meetings of departments, the Faculty EMC, the EMC and the Academic Council of the University.

Analytical part

The EEC Commission notes that the structure and volume of collected information, sources, frequency, time interval, persons responsible for the reliability and timeliness are determined by the internal regulatory documentation of the university, job descriptions of department heads. At the same time, experts note the absence of the Regulations on the site, the regulations for updating the information on the pages of departments and personal pages of the teaching staff have not been determined, the list of scientific publications of the teaching staff requires updating, the English version of the site is not fully presented.

Experts note the absence of an electronic document management system at the university, which is a prerequisite in the era of the development of the digital economy.

The EEC Commission notes the massive use of distance learning technologies and e-learning in the educational process of the university. The effectiveness of the use of distance learning at the university is confirmed by positive feedback from employers and graduates during the conversations.

The EEC members note that, despite the presence of a distance learning system at the university, there is no real opportunity for asynchronous communication between students and teachers (offline).

According to the results of the survey conducted by the EEC, 82% of students are satisfied with the usefulness of the website of educational organizations in general and faculties in particular. 98% of the teaching staff is fully or partially satisfied with the level of feedback from management. Complete satisfaction of students with the level of accessibility of the dean's office is 92%, accessibility and responsiveness of management - 87%, accessibility of academic consulting - 80%, accessibility of counseling on personal problems - 79%.

Strengths/Best practices:

- All students, employees and teaching staff document their consent to the processing of personal data, which ensures rational work in the field of information flow management.
- The University uses a developed system of communication with students, teachers and employees, used, among other things, to resolve conflicts.
- Within the framework of the organized meetings of the EEC, regular monitoring of the satisfaction of the needs of the teaching staff, staff and students was confirmed. The information collected and analyzed by the university is effectively used in the educational and scientific activities of the university.

Recommendations of the EEC for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)":

- *Introduce an electronic document management system into the university management process.*
- *Develop and implement a regulation on the university website with the appointment of responsible persons and the procedure for updating information.*
- *To organize the possibility of asynchronous communication between students and teachers in the distance learning system while maintaining the history of messages.*

Conclusions of the EEC on the criteria of the standard "Information Management and Reporting" for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)": strong-5, satisfactory - 12, need improvement - 0.

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

The evidentiary part

The development and approval of educational programs at the university is carried out in accordance with the provisions of regulatory legal acts in the field of higher education, as well as the documentation developed by the university to ensure transparency and clarity in the implementation of the development strategy directions: Development Plan of EP 5B073200 “Standardization and certification (by industry)”, 5B072800 “Technology of processing industries (by industry)” for 2017-2020 (reviewed by the Faculty Council dated December 27, 2016, minutes № 5 and approved by the decision of the University Academic Council dated December 28, 2016, minutes № 4) and the Regulations of the Committee for the Development of Educational Programs (approved by the EMC of the University dated October 24, 2015 city, protocol № 3).

The process of developing and approving an educational program includes the following stages:

1. Conducting an examination of standard curricula of disciplines, preparing proposals for making changes and additions to them.
2. Development of curricula for all forms and training programs for undergraduate and graduate specialties for the entire period of study. Making additions and amendments where necessary.
3. Conducting an examination of working curricula and methodological support of elective disciplines offered by departments for specialties, preparing an opinion on the possibility of including these disciplines in QED.
4. Drawing up educational training programs, QED for undergraduate specialties - for each academic year, magistracy.
5. Conducting an examination of the working curricula of the disciplines of the compulsory component for compliance with the standard programs.
6. Checking the content and design of educational and methodological complexes of

specialties and disciplines in accordance with the requirements for them.

EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)" are developed on the basis of the Model curriculum approved by order of the Ministry of Education and Science of the Republic of Kazakhstan № 425 dated 05.07.16 and Appendix 4 to the Decree of the Government of the Republic of Kazakhstan dated 13.05.2017 № 292 "On the approval of state compulsory education standards of the corresponding levels of education" and the decision of the Academic Council of the University are recommended for implementation, and approved at the meeting of the Educational and Methodological Council (dated April 23, 2018, minutes № 10).

The formation of individual educational trajectories of the student is carried out with the help of an adviser (regulation on the organization of the work of advisers, approved by the EMC of the university dated August 28, 2015, protocol № 1) for each academic year on the basis of the State Educational Standard of the Republic of Kazakhstan, MCs, ICs

EP of accredited specialists consists of: 1) theoretical training, including the study of cycles of basic and profiling disciplines; 2) practice: educational, professional - production and pre-diploma; 3) additional types of training; 4) interim and final certification. Each of the cycles of disciplines consists of obligatory and elective components in the proportions established by the SCSE RK General Provisions.

The university develops working curricula providing modular study of disciplines with the observance of logical sequencing. Curriculum, modular educational programs (MEP), QED are developed for the whole learning period on the basis of Typical curriculum, on their basis for an individual curriculum, MEPs contain a complete list of educational disciplines, grouped into logic modules, which include disciplines, such as obligatory, as well as elective educational components in accordance with ECTS.

The labor intensity of the study work is set in credits. The scope of the educational discipline is a whole number of credits. The total volume of loans under the EP is at least 129 units. Working curricula in three languages are developed by the departments on the basis of all individual curriculums of students and the academic calendar.

The management, editors of the department, IS, EMC, the department of the registrar, in accordance with the normative requirements, organizes and conducts the choice of elective disciplines by students.

The following disciplines contribute to the achievement of competence in the field of professional activity EP 5B073200 "Standardization and certification (by industry)": "Certification of food products", "Chemical ecology", "Fundamentals of international standardization", etc. Professional competencies are formed within the framework of disciplines introduced into the curricula on the recommendations of employers and taking into account the influence of the labor market. An example is the following disciplines: "Technical regulation of food safety", "Quality audit", "Basics of expertise", "Confirmation of compliance", "Sanitary microbiology" etc.

Participation in the development and examination of the content of EP 5B073200 "Standardization and certification (by industry)" was carried out by the director of the KF RSE "KazInST" Sharipov B. M.

The content of CED EP 5B072800 - "Technology of processing industries" is influenced by the recommendations of representatives of employers. The following disciplines contribute to the achievement of competence in the field of professional activity: "Commodity Science of Grain and its Processing Products", "Fundamentals of Agronomy", "Small Enterprises for the Production of Sugar and Flour Confectionery", "Technological Systems of the Confectionery Industry", etc. Professional competencies are formed within the framework of disciplines introduced into the curricula on the recommendations of employers and taking into account the influence of the labor market.

It should be noted the pronounced practical orientation of the disciplines proposed by employers.

Participation in the development and examination of the content of OP 5B072800 -

"Technology of processing industries" was carried out by the Regional Director of LLP "Baltic Control Kazakhstan" - Zhumagulov S.A. and head of the laboratory of LLP "Allianskom" Muzaeva S.N.

The Commission believes that a larger number of employers should be involved in the examination of the EP content in order to meet the needs of the labor market.

At the university, models of EP graduates have been formed, the teaching staff of the department, graduates and students, as well as representatives of employers, took part in the development of the graduate model.

The competence model for graduates in the professions includes sections:

- The sphere of professional activity;
- Objects of professional activity;
- Subjects of professional activity;
- Types of professional activity;
- Knowledge, skills and abilities.

The competence model of graduate EP 5B072800 - "Technology of processing production" is developed taking into account 6 level of the National Qualifications Framework. It is agreed with "Ivolga Holding" LLP.

The competency model for graduate EP 5B073200 - "Standardization and Certification (by industry)" is designed with the 6 level of the National Qualifications Framework. It is agreed with Kostanay branch of RSE "Kazakhstan Institute of Standardization and Certification".

The process of adopting, implementing and identifying the effectiveness of accredited EPs is monitored by the EMC of the Engineering and Technology Faculty.

EPs are formed in accordance with the State Classifier of Higher and Postgraduate Education Specialties of the Republic of Kazakhstan (SC RK 08-2009) and the Model Curriculum of Specialties.

The members of the EEC note that the students of the accredited SPs discuss the content of education offered by the university, but are less involved in the management of the educational programs.

The EEC notes that there are no joint study programs on the accredited study programs with foreign educational institutions.

Analytical part

Competence models of specialists have been developed for all accredited EP, which include general and professional competencies.

The analysis of the studied documents, as well as the results of the interviews with students, teaching staff, graduates and employers made it possible to conclude that the content of academic disciplines within the framework of educational programs does not always take into account changes in the labor market, the requirements of employers and the social demand of society. In this regard, there is a need to revise the content of academic disciplines. It is necessary to introduce research elements into the content of the accredited educational programs.

The questionnaire survey of the teaching staff, conducted during the visit of the EEC of the IAAR, showed a high assessment (66%) of the attention of the university leadership to the content of the EP. At the same time, the content of EP "very well" satisfies the needs of the teaching staff - 42.6%, "good" - 55.3%.

A survey of students showed that 87.1% were completely satisfied with the level of responsiveness to feedback from teachers regarding the educational process; partially - 10.6%; completely satisfied with the quality of teaching - 90.6%, partially - 9.4%.

Strengths/Best practices

- Practical orientation of educational programs is observed.

Recommendations of the EEC for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)":

- *Strengthen the role of students in ensuring the quality of educational programs.*

- Expand the list of joint and / or double-degree programs with foreign universities.
- Taking into account changes in environmental factors, take corrective and preventive actions aimed at continuous improvement of the EP with the involvement of a larger number of employers in the examination of the EP content.

Conclusions of the EEC on the criteria of the standard "Development and approval of the educational program" for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)": strong - 1, satisfactory - 8, requiring improvement - 3.

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

The evidentiary part

The system of monitoring the implementation of plans for the development of accredited EPs includes the following mechanisms: annual reports of the graduating department and faculty; annual reports of the teachers of the department; consideration of the development of different areas of specialist training at the meetings of collegial bodies.

The EEC notes that the Department has not conducted internal audits since 2017.

The issues of development of the accredited EPs are regularly considered at the meetings of collegial bodies:

1. Academic Council of KEnEU: "On organization of academic work at the Faculty of Engineering and Technology in the 2017-2018 academic year" - May 2018; "Use of different e-learning scenarios in the learning process of CDE at the university" - April, 2018; "On the status and measures to improve library and information activities in the university" - November 2017; The role of the Board of Trustees in the formation of educational programs, May 2018; Innovative orientation as a factor of competitiveness and resource of development of modern HEI, February 2018;

2. EMC of KEnEU named after M. Dulatov: Main directions and activities for the development of educational programs (EP), January, 2018; "Improvement of the regulatory, methodological, material base of the ITP laboratories", March, 2018; "Professional and pedagogical competencies of a teacher in the process of organizing extracurricular activities of students", April, 2018; Monitoring the quality of methodological support of training sessions, IWL, IWST in the context of educational programs, October 2017;

3. Council of the Faculty of Engineering and Technology: "On the state of the material and technical base of the faculty", April, 2018; "Results of winter examination session of 2017-2018 academic year", January, 2018; "On the results of passing all types of internships by students of the faculty", October, 2017; "On the state of educational and methodological work in the departments", November, 2018; "On the organization of academic mobility of students and undergraduates. Problems and prospects" - November, 2016

Within the framework of the IS of the faculty, the methodological documentation for EP, forms of intermediate certification, recommendations for the publication of educational and methodological literature are approved.

Stakeholders - heads of large enterprises of the city are invited to the development of educational program 5B073200 "Standardization and Certification", who make their proposals regarding the subjects taught, necessary for the formation of a competitive specialist capable of solving the assigned tasks. Changes made to the EP are published on the university website.

Important information about the degree of satisfaction of workers with the quality of training is the reports of the Presidents of the State Attestation Commissions (SAC). The opinion of the Chairman of the SAC and the shortcomings he noted in the training of specialists are discussed at the meetings of the "Standardisation and Food Technology" department and are one of the grounds for reviewing the content of the EP.

Thus, in the curriculum of Study Program 5B073200 "Standardization and Certification" in 2017 on the recommendation of employers introduced disciplines: Chemical Ecology, The basis of animal husbandry, Transportation and storage of goods, Identification and falsification of goods (department protocol "SFT" № 9 dated 11.04.2017), in the 2018 curriculum (protocol of the "SFT" Department № 11.04.2018): Technology of livestock production, Sanitary Microbiology, Technical Regulations of the Eurasian Economic Union, Standardization and conformity assessment of products, Theoretical foundations of commodity science and expertise. Within the framework of accredited EP 5B072800 "Technology of processing industries" at the suggestion of the employer Zhumagulov Serik Akanovich director of LLP "BalticKazakhstanControl" were introduced changes in the 2017 curriculum: "Commodity science of grain and its products", "Testing, control and safety at reception and storage of grain" (protocol of the "SFT" department №3-1 from 26. 11.11.2016); On the recommendation of the director of "LAMERC AGRO" LLP Skuridin Vladimir Mikhailovich introduced the disciplines "Microbiology and sanitation of processing industries", "Technology of dietary and functional nutrition", "Technological systems of the confectionery industry", "Small enterprises for the production of sugar and flour confectionery" (protocol of the "SFT" department № dated 11.04.2018).

Also, taking into account the opinions of the management of these enterprises, the following topics are included in the EMCD of the disciplines "Processing and storage of crop production" "Technology of processing industries": "Organization of production and entrepreneurship in the processing industry" and "Forms of entrepreneurial activity, business plan, leasing, commercial activities."

During the interviews with the students, they could not give clear answers to the question about the mechanism for making changes to the content of the EP. It is necessary to provide measures for promptly informing interested parties about changes in the EP, not only by posting information on the university website, but also using social networks, e-mails, seminars, etc.

Also, during a visit to the graduating department, outdated regulatory documents that have lost their relevance in the educational process of EP 5B073200 "Standardization and certification" was discovered.

The general level of satisfaction of potential employers with students over the past three years was 86%.

The website of KEnEU <http://kineu.kz> provides information on the specifics of the EP - a description of EP levels, EP goals, base of practices, awarded qualifications, formed competencies, student achievements, scientific activities of teaching staff of departments, data on international cooperation, contacts. The description of the EP contains data on the requirements for admission to the EP, the form and period of study, the total number of acquired credits, and the base of student practices.

Analytical part

Based on the analysis of the content of the university website, the commission notes the need to publish the results of the revision of the content and structure of educational programs on an ongoing basis.

Strengths/Best practices

- The University carries out organizational activities for monitoring EP with the involvement of employers.

Recommendations of the EEC for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)":

- *Promptly inform employers, students and other interested parties about changes in the EP.*

- On an ongoing basis, monitor regulatory documents in the development and updating of the content and structure of the educational program 5B073200 "Standardization and certification (by industry)".

Conclusions of the EEC on the criteria of the standard "Continuous monitoring and periodic evaluation of educational programs" for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)": strong - 2, satisfactory - 6, suggests improvement - 2

6.5. «Student-centred learning, teaching and performance assessment» standard

The evidentiary part

All educational and methodological documentation - CED, EMCD is compiled in two languages, and IC, materials on the forms of current, midterm, intermediate and final control are compiled in the language of instruction. To ensure the harmonious development of students, taking into account their intellectual development and individual characteristics, in the implementation of student-centered educational programs, the needs of students are taken into account, which is reflected in the requirements both for teaching and for teaching in general. Student-centered learning plays an important role in student achievement.

When applying for academic modules or elective courses, the teachers of the EP give a presentation of their courses to the students. The presentation of elective courses is conducted with the aim of providing the learners with the choice of the teacher, and the teaching trajectory. The teacher gives a short annotation of the course: the place and role of the course in the program of specialty, goals, objectives and novelty of the course, as well as methods and forms of teaching. The choice of educational disciplines is carried out by the learners on the basis of their individual educational needs. The right of choice is provided to all learners, regardless of whether they have academic obligations.

EP has a satisfying structure of a combination of modules, which is compatible with the formulated learning goals. For example, according to the EP "Standardization and certification", the module "Standardization" is combined with the modules "Production and product quality assessment", "Production safety", "Product Conformity Assessment". The level of education is determined by the presence of compulsory components in each block of disciplines, and the freedom to choose learning paths is closed in the possibility of choosing academic disciplines from elective components. The subjects of the compulsory and elective components of the EP are planned in a logical sequence. The study of the discipline is completed by the state exam in the specialty.

The appeal of the results of knowledge assessment is carried out in accordance with the Regulation on the internal quality assurance system. Students who disagree with the assessment received based on the exam results have the right to apply to the appeal commission, which is formed from among teachers whose qualifications correspond to the discipline profile. By the order of the rector, an appeal commission for assessing the knowledge of students is approved and appointed. The appeal procedure is considered immediately on that day, and the decision of the appeal commission is made the next day.

In the learning process, a criterion generally accepted in world practice is used in terms of the scale of alphabetic and numerical designations, reflecting the mechanism for the implementation of a credit transfer based on the ECTS credit system. In accordance with this scale, marks are given in oral and written exams.

EEC notes that employers have the opportunity to submit their proposals for organizing the educational process via e-mail.

At the same time, the EEC members note that innovative methods and technologies are not used in the educational process, such as learning in collaboration, the project method, multimedia technologies and interactive programs are not used enough to help implement a

student-centered approach to learning, providing individualization and differentiation of learning from taking into account the abilities of students.

We consider it necessary to note that within the framework of accredited programs at the university there is a need to develop and implement new own research within the framework of teaching methods in order to develop student-centered learning.

The analysis of the content of the distance learning system by the EEC members revealed the lack of access of students to the results and assessments obtained in the course of distance learning.

During conversations with students, members of the EEC found out that midterm control and exams are carried out in most cases orally, which affects the objectivity of learning outcomes.

Analytical part

During the visit, EEC experts on this standard came to the following conclusions.

In order to improve the quality of training and instill professional competencies, the departments are working to provide students with the opportunity to choose an individual learning path with the right to choose not only disciplines, but also a teacher. During the interviews, the students confirmed that the university has a choice of disciplines.

The trainees confirmed that the appeal mechanism is functioning.

In general, both students and teaching staff expressed positive opinions on the progress of the implementation of the accredited EP.

However, EEC members consider it necessary to note that the university, within the framework of accredited programs, has a need to develop and implement new own research within the framework of teaching methods in order to develop student-centered learning.

Students believe that the university provides equal opportunities to all students - 76.5%, also express complete satisfaction with the quality of teaching 90.6%, fairness of exams and certification - 85.9%, tests and exams - 84.7%.

Strengths/Best practices

- within the framework of training, the necessary conditions have been created to ensure equal opportunities for students, regardless of the language of instruction, to form an individual educational trajectory;

- flexible system of discounts for training and payment schedules.

Recommendations of the EEC for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)":

- *To intensify the work on making decisions based on the results of feedback from students and assessing their satisfaction.*

- *Include in the Development Plans of educational programs the introduction of new forms and methods of teaching and learning; provide feedback on the effectiveness of their use.*

- *Organize their own research in the field of teaching methods and assessment of learning outcomes.*

- *Reflect information on the course of training and current grades of progress in the distance learning system and organize access to them for students.*

- *Increase the share of knowledge assessment in writing during midterm controls and exams.*

Conclusions of the EEC on the criteria of the standard "Student-centered learning, teaching and performance assessment" for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)": strong - 0, satisfactory - 6, suggests improvement - 4

6.6. «Students» standard

The evidentiary part

The admission of students to educational programs is carried out taking into account the relevant rules and procedures (Decree of the Government of the Republic of Kazakhstan dated January 19, 2012 № 109 "On approval of the Model rules for admission to training in educational organizations that implement professional curriculum of postgraduate education", Decree of the Government of the Republic of Kazakhstan dated 19 January 2012 №111 "On Approval of the Model Rules for Admission to Training in Educational Organizations Implementing Professional Curricula of Higher Education", "Regulations on the Admissions Committee" dated 08.12.2013; procedures of the QMS PRO KINEU 714-12 "Rules for Admitting Citizens to University" and PRO KINEU 701-12 "Career guidance work" from 04.01.2012).

Under the accredited EP, among others, students who have won a state educational grant, who have received grants from akims of the region, are trained on a contractual basis. In the basis of the formation of the contingent of students are the requirements put forward by the modern society for higher education.

Table 2 - The contingent of students for five years on accredited programs

Code and name of specialty	2014-2015 acad. year		2015-2016 acad. year		2016-2017 acad. year		2017-2018 acad. year		2018-2019 acad. year.	
	total	gr	total	gr	total	gr	total	gr	total	gr
5B072800 Technology of processing industries (by industry)	67	2	78		74		68		74	2
5B073200 Standardization and certification (by industry)	77		67		70		75	2	64	8

Table 3 - The contingent of students as of October 1, 2018 for accredited programs

Code and name of specialty	DL		kaz	rus	grant	paid	Grand total
	Total	By DLT					
5B072800 Technology of processing industries (by industry)	64	31	6	58	2	72	74
5B073200 Standardization and certification (by industry)	54	33	2	52	8	56	64

According to the table above, we can conclude that there is a slight increase in 5B072800 Technology of processing industries (by industry), and a slight decline in the student population is observed in EP 5B073200 Standardization and certification (by industry). In general, the contingent of accredited EPs has been stable over the past 5 years. But in connection with the change in the Classifier of specialties, it is necessary to carry out work on vocational guidance on these EP.

On the official website of KEnEU there is a page "Applicant" and "Student", where students can familiarize themselves with the rules of admission, transfer from course to course, from other universities, about the procedure for recalculating credits acquired in other universities, etc.

Students' scientific research is expressed in participation in scientific conferences, Olympiads and competitions.

In February 2018, the results of scientific research carried out by students of N.A. Chipizubova and Knaub I.V. were introduced into production and are used in the caramel shop of “Bayan-Sulu” JSC in Kostanay.

Also, in February of this year, the research results of the student Chernenko N.G. introduced into production and used in the confectionery shop "Obzhorka" in Rudny.

According to EP 5B072800 "Technology of processing industries", 5B073200 "Standardization and certification", the professional practice of students from the 2015-2016 academic year to the 2017-2018 academic year was carried out in accordance with the Standard Rules for the Activities of Organizations of Higher and Postgraduate Education, approved by the Government of the Republic of Kazakhstan № 499 dated June 7, 2016.

The direction of the trainees for all types of practices is formalized by the order of the KEnEU rector with an indication of the duration of the course of the practice, the base of the practice and the head (s) of the practice. In the capacity of managers of a practice, there are appointed professors, docents, experienced teachers of the department, who are well aware of the specifics of the profession and the activities of the base of the practice.

Table 4 - Practicum sites of students in accredited programs

5B072800 “Technology of processing industries”	<ol style="list-style-type: none"> 1. “Firma SAPA-K” LLP 2. “Kostanay melkombinat” JSC 3. RSE “Kazakhstan Institute of Standardization and Certification” 4. KF JSC “National Center for Expertise and Certification” 5. Accredited testing center of “AllianceCom” LLP 6. “Olzha Borovskoe” LLP 7. “Astykzhan – Kostanay” LLP 8. “Baltik Control kz Certifikation” LLP 9. RSE “Kazakhstan Institute of Standardization and Certification” 10. “Kostanay Scientific Research Institute of Agriculture” LLP 11. “Melkombinat Ak-Biday” LLP 12. Technological Committee for Standardization TK - 44 “Technologist” LLP
5B073200 “Standardization, certification and metrology”	<ol style="list-style-type: none"> 1 JSC “Dzharkul elevator” 2 RSE “Kazakhstan Institute of Standardization and Certification” 3 KF JSC “National Center for Expertise and Certification” 4 “AllianceCom” LLP 5 “Kostanay melkombinat” JSC 6 “Baltik Control kz Certifikation” LLP 7 “Melkombinat Ak-Biday” LLP 8 Technological Committee for Standardization TK - 44 “Technologist” LLP

The branches of the department operate on the following bases:

According to the educational program 5B072800 “Technology of processing industries”: Baltik Control kz Certifikation LLP, Kostanay Melkombinat JSC;

According to the educational program 5B073200 “Standardization, certification and metrology”: KF JSC “National Center for Expertise and Certification”, LLP Technological Committee for Standardization TK – 44 “Technologist”.

Monitoring of satisfaction based on the results of the internship is carried out by

questioning the satisfaction of the managers of internships from student enterprises.

The overall level of employers' satisfaction over the past three years was 86%.

Along with the questioning of managers of practices from enterprises, a questionnaire of students is conducted for satisfaction with the results of professional practice. Average level of satisfaction with professional practice of students for 2015-2018 amounted to 89%.

When planning work on employment, feedback is maintained with graduates of the specialty, the contingent of graduates, proposals and recommendations from external and internal consumers are taken into account. In order to attract employers to the problems of youth employment, the following are held: "Job fairs", meetings with heads of enterprises.

The analysis of employment has shown that the bulk of graduates are employed in the EP profile. The places of employment of graduates are mainly leading manufacturing enterprises. Separately, the following graduates can be distinguished: Ispaeva Sh.K. - 2017 graduate of the specialty "Standardization, Metrology and Certification" works at "Ivolga" LLP, laboratory assistant; Cherny Valentin - 2017 graduate of the specialty "Standardization, Metrology and Certification" - the chairman of the State Joint-Stock Company Zhumagulov S.A. invited to work at "Baltic Kazakhstan Control" LLP; M. Korostelev - graduate of 2018, specialty "Technology of processing industries" after industrial practice, at the end of the university was invited to work in the bakery of "Altyn NAN" LLP.

Table 5 - Analysis of the employment of accredited EP

Code and name of speciality		2016 year			2017 year			2018 year		
		Total graduation	Employed	%	Total graduation	Employed	%	Total graduation	Employed	%
5B072800	Technology of processing industries	28	26	92,8%	24	23	95,8%	18	18	100%
5B073200	Standardization, metrology and certification	20	19	95%	23	22	95,6%	18	18	100%

The members of the EEC note that the majority of graduates are employed in the study programme profile. Graduates of Study Programme are provided with documents confirming the obtained qualification, including the achieved learning outcomes, as well as the context, content and status of the obtained education and the certificate of its completion, which is the strength of Study Programme.

For her excellent academic performance and active participation in the life of the Faculty and University in 2018, the student of the specialty "Technology of processing industries" N. Yeltai was awarded a presidential scholarship.

Students of "Standardization and food technology" department from the 1st year are involved in research work. In their turn, lecturers constantly monitor their professional and scientific growth during the whole period of their study at the university. Students have the opportunity to carry out research work on a single chosen topic over the course of several years of their studies.

The graduating department pays great attention to educational work. The Department's work plan, which includes educational work, has been developed and approved. Various forms of work are used for the planned activities: preventive talks, round tables, meetings with cultural figures and public figures.

In general, it should be noted that the university has created conditions to support students to self-education and personal growth.

The Commission notes the insufficient work on attracting foreign applicants to study at the

University.

Internal academic mobility of cluster students is represented by isolated cases, is non-systematic in nature (9 people from 2014 to 2016, in 2017-2018 - absent).

During the interviewing of alumni it was found that the work of the Alumni Association is mainly conducted at the level of the graduating department, many graduates are not familiar with the work plan of the association and the events held.

Analytical part

During the analysis of university documents, experts found the absence of cooperation agreements with ENIC/NARIC National Academic Recognition Information Centers in order to ensure comparable recognition of qualifications. External and internal academic mobility of students is poorly implemented, which is confirmed by the results of interviews with students.

During the interviews, employers expressed the need to increase the duration of work placements, which would improve the quality of practical training of students.

During the interviewing of learners it was proved that conditions are created to support gifted students by providing discounts, study grants, incentives for creative activity, etc., while students expressed their desire to hold events at various levels in the areas of specialization on the basis of the university with the participation of students.

According to the results of the survey 80.6% of students express full satisfaction with the availability of academic advising; availability of health services - 81.2%; availability of library resources - 90.6%; existing educational resources - 64.8%; the overall quality of curricula - 70.4%; the relationship between student and teacher - 89%.

Strengths/Best practices

- The university has comprehensive support for students' self-education and personal growth.
- Within the framework of the accredited programs, the university is active in employing graduates.

Recommendations of EEC for EP 5B073200 “Standardization and certification (by industry)”, 5B072800 “Technology of processing industries (by industry)”:

- Organize work to attract foreign applicants to study at the university.
- Continue the work on the development of external and internal academic mobility of students.
- Increase the role of the Alumni Association in the university activities.

Conclusions of the EEC on the criteria of the standard “Students” for EP 5B073200 “Standardization and certification (by industry)”, 5B072800 “Technology of processing industries (by industry)”: strong - 4, satisfactory - 6, suggests improvement - 2.

6.7. «Teaching staff» standard

The evidentiary part

The teaching staff of accredited EPs is completed in accordance with the legislation of RK and the Rules of competitive recruitment of teaching staff and researchers of higher education institutions.

The formation and implementation of personnel policy is based on the following principles: democratic approach to the management of teaching staff and university employees; combination of interests of the management and the managed subsystem; accessibility of management; respect for parity; creation of conditions and atmosphere of initiative and creativity; stimulation of teaching staff activities; personal development of staff.

Personnel policy is implemented in accordance with the main priorities of the university

strategy.

The Personnel Policy of KEnEU consists of a set of principles, norms and rules, organizational mechanisms, managerial decisions, which are in line with the strategic directions of the University's development.

All projects and programs to implement the Personnel Policy are led directly by the Rector of the University. The personnel policy of KEnEU is reflected in such personnel documents as the “Code of Corporate Ethics” (Minutes of the Academic Council № 5 dated January 24, 2017), “Regulations on the order of replacement of positions of teaching and research staff” (Approved October 5, 2015), “Rules of labor order” (Approved October 5, 2015), “Regulations on key performance indicators system for teaching and research staff” (Minutes of the Academic Council № 5 dated January 24, 2017).

The personnel management system is headed by the Rector of the University. It includes managers of all levels, united according to the principle of functional subordination. Members of the HR management system implement the main directions of the Personnel Policy within the authority defined by their job descriptions and regulations on structural units.

The Personnel Policy is available to all members of the team; copies of the Personnel Policy Regulations are located in each division and the electronic version is located on the internal server of KEnEU.

Leading experts in education and industry are invited to serve as chairs of the SAC or reviewers of diploma theses. In the final attestation reports, many employers provide not only an analysis of students' knowledge, but also make suggestions on making additions to the topics of diploma works and the need to include those or other elective courses in educational programs to form the necessary competences in a graduate of HEI, taking into account his/her qualifications.

The dynamics of the number of teaching staff of 5B053200 – “Standardization and Certification” and 5B082800 – “Technology of Processing Production” is presented in Table 1.

Table 6 - Number and composition of teaching staff in 5B053200 – “Standardization and certification” and 5B082800 – “Technology of processing industries (by industry)”

Indicator	Academic year		
	2016-2017	2017-2018	2018-2019
Total number of teaching staff, person including	16	19	17
Full-time teaching staff, persons of which:	16	19	16
with a doctoral degree	-	-	-
with the degree of Candidate of Sciences	11	11	9
with a PhD degree	-	-	-
with an academic master's degree	-	4	4
«Degree ratio», %	68,8	57,9	53
Share of full-time teaching staff, %	100	100	94

The department has 4 corresponding members of the International Academy of Agrarian Education, 6 people have academic titles of Associate Professor (Associate Professor), assigned by the Committee on Control in the Sphere of Education and Science.

The teaching and support staff consists of 1 senior laboratory assistant of the department and 1 head of the laboratories "Standardization and food technologies" for 0.5 positions.

It is necessary to mention, that 8 full-time lecturers of the department have a scientific degree of Candidate of Science in Agriculture and 1 person has a scientific degree of Candidate of Science in Chemistry while the specialties 5B053200-"Standardization and Certification" and

5B082800- "Technology of processing manufacture" correspond to the scientific degree of Candidate of Technical Sciences or PhD in the relevant fields.

In order to improve the quality of teaching, to ensure a close relationship with production, specialists with experience in relevant industries are involved in the teaching process. In the framework of EP, the practitioners are: teachers of the department, who have experience in the relevant industry. For example, for the classes on the discipline "Testing, quality control and safety of processing industries" EP 5B082800 – "Technology of processing industries" involved an employee of LLP KF "Baltic Control Kazakhstan" Zhumagulov S.A. For classes on the discipline "Standardization" of the EP 5B053200 – "Standardization and Certification" employee from RSE "Kazakhstan Institute of Standardization and Certification" Bekova S. D. is involved.

Also, current employees from the industry participate in the learning process during the final certification (as members of the SAC) and the passage of practical training.

Information on the activities of the teaching staff is posted on the website of the university. Departments organize their activities in accordance with the normative legal acts of higher education of the Republic of Kazakhstan, internal documents and the Statute of the Department, which prescribes the main activities of the department, job descriptions of the head of department, professors, associate professors, senior lecturers, teachers, laboratory technicians, concentrated in the department nomenclature.

In the 2017-2018 academic year (first semester), open classes were planned and conducted by the departments. The methods of innovative technologies were actively used in conducting the class, applied methods: project method, case method, visual lecture, etc. The results of the open classes and mutual visits are discussed at the meetings of the department.

Teachers annually improve their qualifications through short-term seminars, refresher courses, internships in the best educational centres of the Republic of Kazakhstan and abroad.

Professional development of the teaching staff of the department is conducted in accordance with the plan of the university in various directions in order to strengthen the scientific and pedagogical, educational and methodological levels of training of the teaching staff. Various forms of professional development: the passage of courses on the basis of leading universities on educational and methodological activities, theoretical seminars and field workshops.

Table 7 - Information on professional development of the teaching staff of the accredited study programmes

	Full name of the teacher	Place of internship	Internship period
1	Iskenova A.B.	"Environmental and food safety in the agricultural policy of the state" seminar at the Institute of World Economy "USMU", Yekaterinburg	November 15-17, 2017
2	Eseeva G.K.	"Safety and quality of food" refresher courses at the Russian State Agrarian University of the Moscow Agricultural Academy named after K.A. Timiryazev, Moscow	March 14-17, 2017
		Kazakh Institute of Standardization and Certification, Astana, "Systems of technical regulation, metrology and management" seminar	March 24-29, 2017
		preparation of biology teachers in English courses, Pre-Intermediate A2 at the Kazakh National University named after Al-Farabi, Almaty	June 12, 2017 - September 02, 2017
3	Mukasheva T.K.	Kazakhstan Institute of Standardization and Certification, "Implementation of management systems in enterprises" seminar	April 04, 2017

4	Zhamalova D.B.	International scientific and practical seminar "Organic production and diversification of crop production: technologies, certification, implementation" at the Kostanay Scientific Research Institute of Agriculture	March 29, 2017
	Eseeva G.K.		
	Mukasheva T.K.		
	Nazarova Zh.Zh.		

Teaching staff of the department "Standardization and food technologies" - senior teachers Nazarova Zh.Zh., Zhamalova D.B., Gaidai I.I. have certificates for the development of electronic materials in the Adobe Captivate system, etc. In the future, the developed electronic courses are planned to be introduced into the educational process.

The research work of the departments is carried out on the basis of the approved plan for the research work of the faculties, taking into account the strategic plan for the development of the university.

(RSW of the teaching staff is reflected in publications of scientific works, monographs of teachers of the department, corresponding to the national policy of the state in the field of education, science and innovation programs)

Table 8-Scientific and methodological developments of teaching staff of accredited EPs

	Department	Manuals*			Monographs*			Educational and methodical manuals, instructions *		
		2016 г	2017	2018	2016 г	2017	2018	2016 г	2017	2018
1.	Standardization and food technology	5	3	2	-	1	1	25	17	14
	Total by department:	5	3	2	-	1	1	25	17	14

Note: * Including ISBN

In the 2016-2017 academic year, 2 educational and methodological works with an ISBN assignment were prepared for publication. In the 2016-2017 academic year, one application was submitted, work on inventive and patent-licensing activities. In the 2017-2018 academic year received a positive decision on the two patents where the author is Eseeva G. K. (Table 9).

Table 9 - Inventive and patent licensing activities

Applications submitted by the department	Applications for industrial property objects were submitted and positive decisions on the issuance of security documents were received, licenses were sold
Department of Standardization and Food Technologies, Candidate of Agricultural Sciences, Associate Professor A. A. Muratov	1
Department of Standardization and Food Technologies, candidate of agricultural Sciences, associate Professor G. K. Eseeva	2
Total:	3

According to the EP “Standardization and certification”, the scientific work is conducted by the Candidate of Agricultural Sciences, associate Professor Mukasheva T. K. in the direction “Standardization and conformity assessment of products and services”. The customer is Baltic Control Kazakhstan LLP. This topic is registered in the NC STI RK. The state registration number is 0118RKD0200. Expected results: An expert examination of grain quality will be conducted in the conditions of the accredited testing laboratory of Baltic Control Kazakhstan LLP, followed by an analysis of the confirmation of grain compliance with regulatory documents. According to the results of the examination, a certificate of grain quality will be issued and recommendations on the organization of management accounting of grain production will be given.

In addition to universities and research institutes, the Faculty of Engineering and Technology maintains a close relationship with production, i.e. with business entities of all forms of ownership, including JSC “Ivolga-Holding”, JSC “NatsEks”, JSC “Melkombinat”, JSC “Agromashholding”. This cooperation is formalized and secured by bilateral agreements.

To increase the efficiency of the teaching staff, improve teaching methods and the effectiveness of the results of labor activity, the KEnEU has a system for assessing the activities of the teaching staff, which is established in the "Regulations on the system of key performance indicators of the TS». The current regulation was revised and approved in May 2018. The main goals of the KPI system are the development of the creative principle of thinking, the activation of educational, research and socio-political work, improving the quality of training, as well as increasing the efficiency of teaching staff, structural divisions and the university as a whole in the implementation of educational programs.

In accordance with modern economic relations, the wages of each worker must correspond to the quantity and quality of his work.

The use of the KPI system makes it possible to more reasonably and differentially establish additional payments to the official salaries of teaching staff, taking into account the results of their work at the expense of the university's own funds, based on the available financial capabilities.

The KPI system involves full-time teachers who have worked for at least one academic year. The results of the ranking of the teaching staff are considered and approved at an expanded meeting of the department. Summing up the results of the efficiency assessment is carried out by a commission appointed by the order of the rector, which makes proposals to the rector for the establishment of personal allowances to the salary of the teaching staff. The monthly amount of allowances in 2018 amounted to 175,000 (one hundred seventy-five thousand) tenge (order № 238-Is dated 12/13/2017).

Analytical part

The EEC notes that it is necessary to intensify the work of the teaching staff of the “SFT” department on inventive and patent-licensing activities.

During the interviews, the staff and teaching staff expressed satisfaction with the current personnel policy in the university, demonstrated awareness in the procedure and nuances of the current personnel management system, confirmed the fact of the competition for vacant positions. Young teachers are also satisfied with the working conditions.

In general, the teaching staff in terms of degree and IT-competence meets the requirements. But at the same time, there is insufficient information about teachers on the website of the university (scientific directions, taught disciplines, etc.), there is no external mobility of teaching staff, it is required on an ongoing basis to improve the professional skills of staff in areas of specialization in leading scientific centers of Kazakhstan and abroad.

The Commission recommended continuing the participation of teaching staff in grant research projects funded by the Ministry of Education and Science of the Republic of Kazakhstan.

Analysis of the submitted documents on the staffing of the teaching staff of the

departments showed that there are no tenured teachers with appropriate basic education in the accredited educational programs.

During meetings with teaching staff and analysis of documents submitted by the university, the experts found a lack of academic mobility of teaching staff.

According to the results of the IAAR questionnaire, the teaching staff expresses satisfaction with the content of the curriculum (42.6%), the opportunity for continuous development of the capacity of the teaching staff (44.7%).

Strengths/Best practices

- Ensuring a comfortable psychological climate and favourable working conditions for the teaching staff;

Recommendations of the EEC for EP 5B073200 "Standardization and certification (by industry)", 5B072800 Technology of processing industries:

- Continue work to support the research activities of the teaching staff and the introduction of research results into the educational process.

- Strengthen work on the academic mobility of teaching staff and attracting the best foreign and domestic teachers.

- To carry out activities to increase the number of graduated teaching staff in the profile of accredited EP.

Conclusions of the EEC on the criteria of the "Teaching staff" standard for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)": strong - 0, satisfactory - 9, suggests improvement - 3.

6.8. «Educational resources and student support systems» standard

The evidentiary part

The material, technical and social base, which is in the operational management of the ChU KINEU named after M. Dulatova, located in the city of Kostanay, consists of 10 facilities, the total area of the territory is 10,464 m².

The university has 2 educational and laboratory buildings, with a total area of 1377 m², per student of the given contingent; the useful educational area is 6.5 m².

Laboratory classes are carried out on the basis of educational and scientific laboratories of the university, as well as at the educational, scientific and production sites operating at the university. Laboratory and practical classes are also conducted on the basis of branches of departments, on the basis of an agreement on mutual cooperation with third-party organizations. Such an organization of the educational process makes it possible to more fully use the material, technical and human resources of both the university and enterprises and organizations of the region for the formation of students' professional skills and abilities in conditions close to real ones.

The university infrastructure includes a dormitory, sports facilities, a library, a medical center and other educational and auxiliary buildings.

The sports base of KEnEU consists of a set of indoor and outdoor sports facilities. The university has one indoor sports hall, equipped with the appropriate sports equipment, with a total area of 1087.5 m².

At present, the University has a dormitory with a total floor space of 1821.5 m² for 150 beds. Also in the dormitory there is an open-air sports field with a total area of 954.5 m².

To organize student catering, the university has a youth cafe with a total area of 275.6 m² for 100 seats.

Medical care for employees and students is provided by the health center, which is located in the building of the sports complex of KEnEU and in the city polyclinic № 1.

Building A has 24 classrooms with a total area of 1,333 m², 21 laboratories with an area of 685,3 m², and 4 computer classrooms with an area of 164,1 m². Besides, the building accommodates the International Scientific and Educational Center of Computer Technologies “APTECH-KEnEU” and the laboratory of Internet technologies of distance learning.

Building B has 1 classroom with the total area of 33,5 m² and 21 laboratories with the total area of 2151,2 m².

The main component of creating conditions for the organization and conduction of scientific research in KEnEU are laboratories equipped with modern material and technical facilities. On February 4, 2015, the Regional Innovation Center (RIC) was established, which included KEnEU, the Kostanay branch of “Agromashholding” JSC and “SaryarkaAvtoProm” LLP. The purpose of the RIC is to form an effective system of interaction between production, education and science: training of highly qualified technical specialists, introduction of a dual training system, practical application of modern technologies, and commercialization of scientific and industrial developments.

To improve the efficiency of the educational process, the quality of the training of specialists at the department, a collection of electronic educational resources is formed, acquired and partially developed by the university staff for educational and scientific purposes. In addition to the informational content of the website there is an interactive community through virtual representation, guarantee access to educational services, and automated information systems, such as electronic encyclopedia, directory, electronic educational resources, a directory of training programs, and the site of the KEnEU library, AIS PLATON, to the portal of DL, e-mail, and internal portal. Feedback from students is provided through the website, information stands in each building.

Students enrolled in the 1st year of study are preceded by a travel guide and an academic calendar. The area of the reading rooms is 2870.1 m², the total number of seats is 473.

The library is located in the main educational building. The library has a reading room where students can work with electronic textbooks, an electronic catalog, the RIEL electronic library, and audio and video materials. The electronic reading room is equipped with modern office equipment: computers, printers, and a scanner.

The library occupies the 4th floor of the new university building, its total area is 431.2 m². The library has two structural divisions: a service department (subscription and a reading room for 120 seats) and an Internet room for 13 seats with 10 computers. All information resources are available to users every day from 8.30 to 18.00 (except Sunday).

The library fund of the university totals 385 690 copies as of 01.12.2018, incl. in the state language - 27589 copies, of which educational literature - 261150 copies, educational and methodical literature - 41611 copies, information resources - 82929 copies. Paper editions are 357323 copies, electronic editions are 28101. For the convenience of users, in the electronic hall of the university library on CDs, a database of intra-university publications has been collected: educational and methodological complexes of disciplines for educational programs, as well as licensed educational publications, electronic educational resources, computer training programs, etc.

Book availability of students in EP 5B073200 “Standardization and certification (by industry)” is 102.6 copies, according to EP 5B072800 “Technology of processing industries (by industry)” - 101, 2 copies.

The Commission notes the availability of library resources for students.

For the organization of the educational process, the university is sufficiently equipped with modern technology in classrooms, lecture halls, in all departments of the university. A total of 19 computer labs are involved in the educational process, 6 of which are located in information and communication centers in the cities of Rudny, Arkalyk, the villages of Karabalyk, Uzunkol, Sarykol.

The educational and laboratory facilities and the classroom fund correspond to the contingent of students, educational programs being implemented and sanitary and epidemiological standards and requirements. In total, 36 laboratories function at KEnEU.

Projection and interactive equipment is installed in 16 lecture halls and computer labs. There are 2 specialized language classes for 22 seats, equipped with special equipment for two-way sound transmission.

For educational and research purposes, modern software is used. An academic license from Autodesk allows you to work with all engineering and graphics products of this company - AutoCAD, 3DMax, ArchiCAD, Maya, Inventor and others.

At the time of the visit, the EEC in the educational process used 12 virtual classrooms AdobeConnect in specially equipped classrooms. Since the beginning of the use of AdobeConnect virtual classrooms, more than 3000 lectures have been recorded, which are available in the student's personal account of the Elsyma distance learning system.

The "SFT" department has 5 laboratories, 1 specialized office. All classrooms are closed. The laboratories have water supply, there are fume cupboards. General information about the material base of the "SFT" department is presented in tables 10 and 11.

Based on the above-stated, it follows that the material and technical base of the department "SFT" generally meets the requirements for providing the educational process for EP 5B073200 "Standardization and certification (by industry)" and EP 5B072800 "Technology of processing industries (by industry)".

It should be noted that the equipment of the laboratory "Chemistry" is physically outdated and requires modernization. Also, to improve the efficiency of the educational process, the quality of training of specialists requires additional equipment of a specialized laboratory (mini-workshop) EP "Technology of processing industries (by industry)" with the following equipment: laboratory mill, oven, dough mixer, proofing cabinet, blender, mixer, water bath, baking molds for conducting preparatory operations for baking bakery products. Currently, all preparatory operations are carried out manually using improvised tools.

Table 10 - Educational material and technical base of the "SFT" department

Classroom number	Number of seats	Classroom name	Including		Number of computers	Degree of availability of facilities in the department as a whole
			open type	closed type		
303B	24 (67,7 m ²)	Laboratory "Chemistry"		+	-	Satisfactorily
302B	16 (45,4 m ²)	Laboratory "Technochemical control"		+	1	Satisfactorily
201A	12 (43,6 m ²)	Laboratory "Ecology"		+	1	Satisfactorily
309B	32 (63,3 m ²)	Laboratory "Expertise of grain and food quality"		+	1	Satisfactorily
101A	12 (37 m ²)	Laboratory "Standardization, Metrology and Certification"		+	-	Satisfactorily
204A	16 (43,5 m ²)	Specialized classroom "Technology of crop production"			-	Satisfactorily

Table 11 - List of laboratories for accredited programs with equipment

Classroom	Classroom name	Name of installed equipment
302 B	Laboratory	Drying cabinet, muffle furnace, thermostat, torsion scales,

	“Technochemical control”	laboratory centrifuge, colorimeter (Michaelis device), A.I. Alyamovsky device (for soil analysis), chemical glassware, reagents, computer, multimedia complex
303 Б	Laboratory “Chemistry”	Drying cabinet, refrigerator, analytical scales, electronic scales, photoelectro-calorimeter, spectrophotometer - 410, viscometer, pH-meters, erythrohemometer, distillator, centrifuge, microscopes, lab utensils, desiccator etc.
309Б	Laboratory “Expertise of grain and food quality”	Liter powder, moisture meter, electronic scales SW-2DD, Diaphanoscope DSZ-2, demountable boards, whiteness meter, Drying cabinet SESH-3m, laboratory mill LZM, IDK device, laboratory sieves, automobile probe, Zhuravlev's device, electrocompact thermometer, desiccator, etc. .d.
101 A	Laboratory “Standardization, Metrology and Certification”	Drying cabinet, muffle furnace, SGK-4 meter, Technical scales VLK-500 Laboratory centrifuge OP ZUKHPA-2 Educational microscope, Transit level meter TESLA, Electronic school oscilloscope, Counter SA4U - I672M, Electronic relay tester EIR-2, Device PSB, Stand for burettes, Stand for test tubes, Torsion scales VTV, Torsion scales, DVL, etc.
201 A	Laboratory “Ecology”	Desiccator, muffle furnace, laboratory glassware, stands, moulages, computer

Analytical part

As a result of a visual inspection by members of the EEC of the facilities of the material base, we note that to ensure the educational process of accredited educational programs, the university has all the necessary educational and material assets. The building of the university meets the current sanitary standards and fire safety requirements. Classroom and laboratory facilities, classrooms and other premises, sports facilities comply with the established norms and rules.

The Commission notes that attention should be paid to and improved conditions for students with disabilities.

Experts note the need for cooperation between the university library and libraries of other universities in the country, near and far abroad, which will provide students with additional resources.

Since February 2015, the university has been using its own development - a plagiarism prevention system in the final work of students. The system searches through the internal database, which is updated after passing the document of the anti-plagiarism system. But systems for checking written works for plagiarism using external databases are not used, which was confirmed during interviews with representatives of the university.

According to the results of the questioning of students, 89.4% are “completely” satisfied with the existing educational resources of the university; classrooms, classrooms for large groups - 80%; lounges for students - 42.4 %%; computer classes and Internet resources - 78.8%; hostel - 61.2%.

Strengths/Best practices

- availability of sufficient material and technical base;
- availability of library resources.

Recommendations of the EEC for 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)":

- To develop measures to modernize the laboratory "Chemistry" and equip specialized

laboratories of the EP "Technology of processing industries (by industry)" with the following equipment: laboratory mill, oven, kneader, proofing cabinet, blender, mixer, water bath, baking dishes.

- Introduce a system for checking written works for plagiarism using external databases.

Conclusions of the EEC on the criteria of the standard "Educational resources and student support systems" for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)": strong - 2, satisfactory - 7, suggests improvement - 1.

6.9. «Public informing» standard

The evidentiary part

The University regularly informs the public and key stakeholders about all aspects of its activities, conditions and features of the implementation of educational programs, within the framework of existing accreditations and licenses.

Through the information policy, the university demonstrates the constant development of educational programs, adaptation to educational trends in the world. In its information work, the University uses all available channels and technologies, including the media, specialized events and conference materials. The possibilities of the Internet and social networks are actively used.

Sources of information on the activities of the university and the implementation of educational programs for interested parties are the headings "Applicant", "Student", "Graduate" and "Education" on the University website www.kineu.kz.

The mass media for publication have been determined - these are the local newspapers "Kostanay News", "Kostanay-Agro", "Nash Kostanay", "Uchitelskaya +" and the Qostanay TV channel.

The university has official pages on popular social networks:

- Facebook: <https://www.facebook.com/kineukz/>;
- Instagram: (@ kineu.kz);
- Classmates: <https://ok.ru/kineukz>;
- Vkontakte: <https://vk.com/feed>;
- Youtube: <https://www.youtube.com/user/kineukz>.

The satisfaction of stakeholders in the quality of the information received and in its completeness is monitored through comments on social networks, through a complaint book and a feedback form on the university website <http://kineu.kz/obratnaya-svyaz/> and through the rector's blog <http://kineu.kz/blog-rektora/>.

In order to establish feedback with students and employers, reception on personal and other issues is carried out by deans and heads of departments at certain times when interested persons can receive the necessary information. The WhatsApp channel is also used to communicate with stakeholders.

Information stands, banners and plaques with the names of faculties and departments are placed on the territory of the university to inform applicants. Open House Days are held on a regular basis.

The University annually holds Job Fairs, which allows graduates and employers to establish contact for the selection of the necessary personnel. As a result of such preliminary work, students get an idea of the labor market, existing vacancies and the requirements for them even before graduation.

The University regularly takes part in various ratings of higher educational institutions in Kazakhstan, as well as in external evaluation procedures.

Analytical part

An analysis of the information presented on the university website showed that the University posts complete and reliable information about its activities, the rules for admitting

applicants, educational programs, terms and form of training, contact and other information useful for applicants and students.

The University regularly informs the public and key stakeholders about all aspects of its activities, conditions and features of the implementation of educational programs, within the framework of existing accreditations and licenses.

Through the information policy, the university demonstrates the constant development of educational programs, adaptation to educational trends in the world. In its information work, the University uses all available channels and technologies, including the media, specialized events and conference materials. The possibilities of the Internet and social networks are actively used.

Sources of information about the activities of the university and the implementation of educational programs for stakeholders are the headings "Applicant", "Student", "Graduate" and "Education" on the University website <http://kineu.kz>.

But at the same time, the EEC notes the lack of information to explain the national development programs of the country and the system of higher and postgraduate education. Also, the university does not publish audited financial statements.

The personal pages of the teaching staff available on the site require updating and bringing them to a unified form indicating information about the subjects taught, publications and contacts. Also, the site does not contain all the portfolios of the teaching staff of the graduating department.

The assessment of satisfaction with information about the activities of the university, the specifics and progress of the EP implementation is carried out annually through a questionnaire, survey, feedback, as well as through the rector's blog.

A survey of students conducted during the visit of the IAAR EEC showed that satisfaction with the usefulness of the university website and informing students about courses, EP and academic degrees are 82.4 and 83.5%, respectively.

Strengths/Best practices

- timely, reliable and full access to information is provided;
- various methods of information dissemination are used.

Recommendations of the EEC for 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)":

- *Ensure the publication on the university's website of national programs for the development of the country and education, including "Digital Kazakhstan", as well as inform students, teaching staff and staff about the priorities and new tasks in the field of higher education.*
- *Ensure publication of audited financial statements on the website.*
- *Provide regular updates of information about teaching staff (portfolio) on the university website, including a list of scientific publications.*

Conclusions of the EEC on the criteria of the "Public information" standard for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)": 2-strong, satisfactory - 9, suggests improvement - 2.

6.10. «Standards in the context of individual specialities» standard

The evidentiary part

In order to familiarize undergraduate students with the professional environment and current issues in the field of specialization, as well as to acquire skills based on theoretical training, the following activities are carried out for students:

- students of the specialty 5B073200 "Standardization and certification (by industry)" were attracted to participate in the events dedicated to the International Day of the Standard, the Day

of the Metrologist, the Day of Quality held by the KF RSE "Kazakhstan Institute of Standardization and Certification".

- for students of the specialty 5B073200 "Standardization and certification (by industry)", the department conducts an excursion to the enterprises of Kostanay (KF JSC "National Center for Expertise and Certification", LLP "AgroExpert", Technical Committee for Standardization 44 "Technologist", Interstate Technical Committee 534 "Ensuring the safety of food raw materials and agricultural products based on the principles of HACCP", KF RSE "Kazakhstan Institute for Standardization and Certification", LLP "Karasu-Et", "Berezka Agro").

Traditionally, the Department of "SFT" for EP 5B073200 "Standardization and certification (by industry)" conducts seminars and conferences dedicated to the International Day of Standard, World Day of Quality and World Day of Metrology with the involvement of specialists in the relevant fields for students of the Engineering and Technical Faculty.

The discipline "Testing, control and safety during acceptance and storage of grain" EP 5B073200 "Standardization and certification (by industry)" has a pronounced practical focus, classes are conducted on the basis of LLP KF "Baltic Control Kasakhstan" in the classroom of the branch of the department of standardization and food technology. In the discipline "Technology of production of pasta" EP 5B072800 "Technology of processing industries (by industry)" students receive the necessary practical skills to control the quality and safety of grain in an accredited testing laboratory at JSC "Kostanay Melkombinat".

Within the framework of the accredited EP, teachers who have industrial experience carry out educational activities:

- EP 5B073200 "Standardization and certification (by industry)" - Levadny N.S. - 33 years of production experience. He has been working at the university since 2011, currently holds the position of a senior teacher.

- Gaidai I. I. - 22 years of production experience. She has been working at KEnEU since 2005 as an associate professor of the Department of Standardization and Food Technologies.

- Atembekova Zh.E. - work experience in production is 3 years. She has been working as a teacher at the Department of SPT since 2014.

Analytical part

The analysis of feedback from employers and managers of educational and industrial practices on accredited educational programs indicates that there is a pronounced practical orientation of special disciplines.

The EEC Commission notes that there is a close relationship with practice. Developed plans for internships for teaching staff on the basis of enterprises.

Also, during an interview with students, it turned out that students of accredited programs do not fully use modern information and communication technologies in the educational process.

In the process of teaching students EP 5B073200 "Standardization and certification (by industry)", the actual regulatory documents were not always used.

Strengths/Best practices

- the presence in the accredited EP of disciplines aimed at obtaining students of practical experience in the application of theoretical knowledge;

Recommendations of the EEC for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)":

- *Provide for students in educational programs 5B073200 "Standardization and certification (by industry)" and 5B072800 "Technology of processing industries (by industry)" teaching based on modern achievements of world science and practice in the field of specialization, as well as using the latest teaching methods and technologies;*

- *Ensure the use in the educational process of the relevant regulatory documents for the specialty 5B073200 "Standardization and certification (by industry)".*

Conclusions of the EEC on the criteria of the standard "Standards in the context of individual specialties" for EP 5B073200 "Standardization and certification (by industry)", 5B072800 "Technology of processing industries (by industry)": strong - 2, satisfactory - 3.



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

Strengths overview for EP 5B073200 “Standardisation and certification (by industry)”, 5B072800 “Technology of processing industries (by industry)”:

According to the «Educational program management» standard:

- Having the only technical committee for standardization in the northern region "TK-44 Technologist" and the interstate technical committee MTK-534, students have the opportunity to develop skills in the development and examination of national (ST RK) and interstate standards (GOST).

According to the «Information management and reporting» standard:

- All learners, staff and teaching staff confirm their consent to the processing of personal data, which ensures a rational management of information flows.

- The University uses a well-developed system of communication with learners, faculty and staff, used, among others, to resolve conflicts.

- Regular monitoring of the satisfaction of teaching staff, staff and students was confirmed through the EEC meetings organized. The information collected and analyzed by the university is effectively used in the educational and scientific activities of the university.

According to the «Development and approval of the educational program» standard:

- Practical orientation of educational programs is observed.

According to the «Continuous monitoring and periodic evaluation of educational programs» standard:

- The University conducts organizational activities for monitoring EP with the involvement of stakeholders.

According to the «Student-centered learning, teaching and performance assessment» standard:

- Within the framework of training, the necessary conditions have been created to ensure equal opportunities for students, regardless of the language of instruction, to form an individual educational trajectory;

- Flexible system of tuition discounts and payment schedules.

According to the «Students» standard:

- The university provides comprehensive support to students for self-education and personal growth.

- Within the framework of accredited programs, the university is actively working on the employment of graduates.

According to the «Teaching staff» standard:

- Providing a comfortable psychological microclimate and favorable working conditions for teaching staff.

According to the «Educational resources and student support systems» standard:

- Availability of sufficient material and technical base;

- Availability of library resources.

According to the «Public informing» standard:

- Timely, reliable and complete access to information is provided;

- Various methods of information dissemination are used.

Standards in the context of individual specialties:

- The presence in the accredited EP of disciplines aimed at obtaining students practical experience in the application of theoretical knowledge.

(VIII) OVERVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS FOR EACH STANDARD

Review of recommendations for EP 5B073200 “Standardization and certification (by industry)”, 5B072800 “Technology of processing industries (by industry)”:

According to the «Educational program management» standard:

- Carry out a set of measures to update and disseminate the Internal Quality Assurance Policy.

- Conduct training for heads of departments and educational programs in the field of risk management, implement risk management at the level of structural units, processes and educational programs.

According to the «Information management and reporting» standard:

- Introduce an electronic document management system into the university management process.

- Develop and implement a regulation on the university website with the appointment of responsible persons and the procedure for updating information.

- To organize the possibility of asynchronous communication between students and teachers in the distance learning system while maintaining the history of messages.

According to the «Development and approval of the educational program» standard:

- Strengthen the role of students in ensuring the quality of educational programs.

- Expand the list of joint and / or double-degree programs with foreign universities.

- Taking into account changes in environmental factors, take corrective and preventive actions aimed at continuous improvement of the EP with the involvement of a larger number of employers in the examination of the EP content.

According to the «Continuous monitoring and periodic evaluation of educational programs» standard:

- Promptly inform employers, students and other interested parties about changes in the EP.

- On an ongoing basis, monitor regulatory documents in the development and updating of the content and structure of the educational program 5B073200 "Standardization and certification (by industry)".

According to the «Student-centered learning, teaching and performance assessment» standard:

- To intensify the work on decision-making based on the results of feedback from students and assessment of their satisfaction.

- To include in the Development Plans of educational programs the introduction of new forms and methods of teaching and learning, to provide feedback on the effectiveness of their use.

- Organize their own research in the field of teaching methods and evaluation of learning outcomes.

- Reflect information about the course of training and current performance assessments in the distance learning system and organize access to them for students.

- Increase the share of knowledge assessment in writing during midterms and exams.

According to the «Students» standard:

- Organize work to attract foreign applicants to study at the university.

- Continue to work on the development of external and internal academic mobility of students.

- To increase the role of the Alumni Association in the activities of the university.

According to the «Teaching staff» standard:

- Continue to support the research activities of the teaching staff and the implementation of the results of scientific research in the educational process.

- Strengthen the work on academic mobility of teaching staff and attract the best foreign and domestic teachers.

- To carry out measures to increase the number of professional teaching staff in the profile of accredited educational institutions.

According to the «Educational resources and student support systems» standard:

- Develop measures to modernize the laboratory "Chemistry" and equip specialized laboratories of the YP "Technology of processing industries (by industry)" with the following equipment: laboratory mill, oven, dough mixer, proofing cabinet, blender, mixer, water bath, baking pans.

- Implement a system for checking written works for plagiarism using external databases.

According to the «Public informing» standard:

- Ensure the publication on the website of the University national development and education, including "Digital Kazakhstan", as well as to ensure that students, teaching staff and staff about the priorities and new challenges in higher education.

- Ensure that the audited financial statements are published on the website.

- Ensure regular updates of information about the faculty (portfolio) on the university's website, including the list of scientific publications.

Standards in the context of individual specialties:

- To ensure that the students of 5B073200 "Standardization and Certification (by industry)" and 5B0772800 "Technology of processing industries (by industry)" are taught on the basis of modern achievements of world science and practice in the field of specialization, as well as using the latest teaching methods and technology.

- To ensure the use in the educational process of relevant normative documents for the specialty 5B073200 "Standardization and Certification (by industry)".



(IX) OVERVIEW OF RECOMMENDATIONS FOR THE DEVELOPMENT OF THE EDUCATIONAL ORGANISATION

(List of EEC recommendations related to the development of EO. These recommendations do not apply to measures to improve quality and compliance with the IAAR standards)

1. It is recommended to provide students with the necessary number of places to stay in student dormitories.
2. Carry out work to increase the audience fund.
3. Provide the required temperature in classrooms.



Annex 1. Evaluation table «SPECIALIZED PROFILE PARAMETERS» (5B073200 «Standardization and certification (by industry)», 5B072800 «Technology for processing industries (by industry)»)

№ item	№ item	Evaluation criteria	Position of the educational organization			
			Strong	Satisfactory	Suggests improvement	Not satisfactory
«Educational program management» standard						
1	1.	The institution 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 must demonstrate the development of a culture of quality assurance, including in the context of EP.		+		
4	4.	Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint / double degree education and academic mobility.		+		
5	5.	The EP management ensures the transparency of the development of the EP development plan based on the analysis of its functioning, the actual positioning of the university and the focus of its activities on meeting the needs of the state, employers, stakeholders and students.		+		
6	6.	The EP management demonstrates the functioning of mechanisms for the formation and regular revision of the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.		+		
7	7.	EP management should involve representatives of stakeholder groups, including employers, students and teaching staff, in the formation of the EP development plan.		+		
8	8.	The EP management must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national development priorities and the development strategy of the educational organization.		+		
9	9.	The university must demonstrate a clear definition of those responsible for business processes within the EP, an unambiguous distribution of staff duties, and the delineation of functions of collegial bodies.	+			
10	10.	The 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 assurance system of the EP, including its design, management and monitoring, their improvement, decision-making based on facts.		+		
12	12.	The EP's management should carry out risk management.			+	
13	13.	The EP management should ensure the participation of representatives of interested parties (employers, teaching staff, and students) in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.	+			
14	14.	The university must demonstrate innovation management within 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 parties.	+			
16	16.	The EP management must undergo training in educational management programs.		+		

17	17.	EP management should strive to ensure that the progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.		+		
Total by standard			4	10	3	0
«Information management and reporting» standard						
18	1.	The university must ensure the functioning of the system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software.		+		
19	2.	EP management must demonstrate the 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 that reflects all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research.		+		
21	4.	The university must establish the frequency, forms and methods of assessing EP management, the activities of collegial bodies and structural units, top management, and the implementation of scientific projects.		+		
22	5.	The university must demonstrate the determination of the procedure and ensuring the protection of information, including the identification of persons responsible for the accuracy and timeliness of the analysis of information and the provision of data.		+		
23	6.	An important factor is the involvement of students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.		+		
24	7.	EP management must demonstrate the existence of a communication mechanism with students, employees and other stakeholders, including the availability of mechanisms for resolving conflicts.	+			
25	8.	The university must ensure the measurement of the degree of satisfaction of the needs of teaching staff, staff and students within the EP and demonstrate evidence of elimination of the identified deficiencies.		+		
26	9.	The university should evaluate the effectiveness and efficiency of activities, including in the context of EP.		+		
		<i>The information collected and analyzed by the university should take into account:</i>				
27	10.	key performance indicators;		+		
28	11.	the dynamics of the contingent of students in the context of forms and types;	+			
29	12.	the level of academic achievement, student achievement and expulsion;		+		
30	13.	satisfaction of students with the implementation of 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 teaching staff must document their consent to the processing of personal data.		+		
34	17.	The EP management should contribute to the provision of all the necessary information in the relevant fields of science.		+		
Total by standard			5	12	0	0
«Development and approval of the educational program» standard						
35	1.	The university must define and document procedures for the development of EP and their approval at the institutional level.		+		
36	2.	EP management must ensure that the developed EP meets the established goals, including the expected learning outcomes.		+		
37	3.	The EP management must ensure the availability of developed models of the EP graduate, describing the learning outcomes and personal qualities.		+		
38	4.	The EP management must demonstrate the conduct of external examinations of the EP.			+	
39	5.	The qualifications obtained upon completion of the EP must be clearly defined, explained and correspond to a certain level of the NQS.		+		

40	6.	EP management must determine the influence of disciplines and professional practices on the formation of learning outcomes.	+			
41	7.	An important factor is the ability to prepare students for professional certification.		+		
42	8.	EP management must provide evidence of the participation of students, teaching staff and other stakeholders in the development of the EP, ensuring their quality.			+	
43	9.	The complexity of the EP should be clearly defined in Kazakhstani credits and ECTS.		+		
44	10.	The EP management must provide the content of academic disciplines and learning outcomes to the level of education (bachelor's, master's, doctoral studies).		+		
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 EP with foreign educational organizations.			+	
Total by standard			1	8	3	0
«Continuous monitoring and periodic evaluation of educational programs» standard						
47	1.	The university must monitor and periodically evaluate the EP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the EP.		+		
		<i>Monitoring and periodic evaluation of the EP should consider:</i>				
48	2.	the content of the programs in the light of the latest achievements of science in a specific discipline to ensure the relevance of the taught discipline;			+	
49	3.	changes in the needs of society and the professional environment;		+		
50	4.	workload, academic performance and graduation of students;	+			
51	5.	the 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 EP management must provide evidence of the participation of students, employers and other stakeholders in the revision of the EP.		+		
55	9.	All stakeholders should be informed of any planned or taken actions in relation to the EP. All changes made to the EP must be published.		+		
56	10.	The EP management must ensure the revision of the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society.	+			
Total by standard			2	6	2	0
«Student-centered learning, teaching and performance assessment» standard						
57	1.	EP management should ensure respect and attention to various groups of students and their needs, providing them with flexible learning paths.		+		
58	2.	EP management must ensure the use of various forms and methods of teaching and learning.			+	
59	3.	An important factor is the availability of their own research in the field of teaching methods of educational disciplines EP.			+	
60	4.	EP management must demonstrate the existence of a feedback system on the use of various teaching methods and assessment of learning outcomes.			+	
61	5.	The EP management must demonstrate support for the autonomy of students, while providing guidance and assistance from the teacher.		+		
62	6.	EP management must demonstrate the existence of a procedure for responding to student complaints.		+		
63	7.	The university must ensure consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each EP, including appeal.		+		
64	8.	The university must ensure that the procedures for assessing the learning outcomes of EP students are consistent with the planned learning		+		

		outcomes and the objectives of the program. Criteria and methods of assessment within the framework of the EP must be published in advance.				
65	9.	The university should determine the mechanisms for ensuring the development of learning outcomes by each EP graduate and ensure the completeness of their formation.		+		
66	10.	Evaluators should be proficient in modern methods of assessing learning outcomes and regularly improve their qualifications in this area.			+	
Total by standard			0	6	4	0
«Students» standard						
67	1.	The university must 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 EP management must demonstrate the implementation of special adaptation and support programs for newly admitted 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 Recognition Information Centers" ENIC / NARIC in order to ensure comparable recognition of qualifications.		+		
71	5.	EP management must demonstrate the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education.		+		
72	6.	The university should provide an opportunity for external and internal mobility of EP students, as well as assist them in obtaining external grants for training.			+	
73	7.	The EP's management should make the maximum amount of effort to provide students with places of practice, promote employment of graduates, and maintain communication with them.	+			
74	8.	The university must provide EP graduates with documents confirming the acquired qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion.	+			
75	9.	An important factor is monitoring the employment and professional activities of EP graduates.	+			
76	10.	EP management should actively stimulate students to self-education and development outside the main program (extracurricular activities).	+			
77	11.	An important factor is the presence of an active alumni association / association.			+	
78	12.	An important factor is the availability of a support mechanism for gifted students.		+		
Total by standard			4	6	2	0
«Teaching staff» standard						
79	1.	The university must have an objective and transparent personnel policy, including recruitment, professional growth and personnel development, ensuring the professional competence of the entire staff.		+		
80	2.	The university must demonstrate the compliance of the staff potential of the teaching staff with the development strategy of the university and the specifics of the EP.			+	
81	3.	EP management must demonstrate awareness of responsibility for their employees and providing them with favorable working conditions.		+		
82	4.	The EP management must demonstrate the change in the role of the teacher in connection with the transition to student-centered learning.		+		
83	5.	The university must determine the contribution of the teaching staff of the EP to the implementation of the development strategy of the university, and other strategic documents.		+		
84	6.	The university should provide opportunities for career growth and professional development of the teaching staff of the EP.		+		

85	7.	The EP management should involve practitioners of the relevant industries in teaching.		+		
86	8.	The EP management should provide targeted actions for the development of young teachers.		+		
87	9.	The university must demonstrate the motivation for the professional and personal development of EP teachers, including the encouragement of both the integration of scientific activity and education, and the use of innovative teaching methods.		+		
88	10.	An important factor is the active use of information and communication technologies by the teaching staff in the educational process (for example, on-line training, e-portfolio, MOOC, etc.).			+	
89	11.	An important factor is the development of academic mobility within the EP, attracting the best foreign and domestic teachers.			+	
90	12.	An important factor is the involvement of the teaching staff of the EP in the life of society (the role of the teaching staff in the education system, in the development of science, the region, the creation of a cultural environment, participation in exhibitions, creative competitions, charity programs, etc.).		+		
Total by standard			0	9	3	0
«Educational resources and student support systems» standard						
91	1.	EP management must demonstrate the sufficiency of material and technical resources and infrastructure.		+		
92	2.	The EP management must demonstrate the existence of procedures for supporting various groups of students, including information and counseling.		+		
		The EP management must demonstrate the compliance of information resources with the EP specifics, 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, methodological and scientific literature on general education, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases;		+		
95	5.	examination of research results, graduation works, dissertations for plagiarism;			+	
96	6.	access to educational Internet resources;		+		
97	7.	functioning of WI-FI on the territory of the educational organization.		+		
98	8.	The university should strive to ensure that the educational equipment and software used for mastering EP are similar to those used in the respective industries.		+		
99	9.	The university must 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 people, foreign students, as well as students with disabilities).	+			
Total by standard			2	7	1	0
According to the «Public informing» standard						
		<i>The information published by the university in the framework of the EP must be accurate, objective, relevant and must include:</i>				
101	1.	programs being implemented, with an indication of the expected learning outcomes;		+		
102	2.	information on the possibility of qualifying at the completion of the EP;		+		
103	3.	information on teaching, learning, assessment procedures;		+		
104	4.	information about passing scores and learning opportunities provided to students;		+		
105	5.	information about the employment opportunities of graduates.		+		
106	6.	The EP management should use a variety of ways to disseminate information (including the media, web resources, information networks, etc.) to inform the general public and interested parties.	+			
107	7.	Public awareness should include support and explanation of national development programs for the country and the system of higher and			+	

		postgraduate education.				
108	8.	The university must publish audited financial statements on its own web resource.		+		
109	9.	The university must demonstrate the reflection on the web resource of information that characterizes the university as a whole and in the context of the EP.		+		
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 interaction with partners within the 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 based on the results of external evaluation procedures.		+		
113	13.	An important factor is the participation of the university and the implemented EP in various external assessment procedures.	+			
Total by standard			2	9	2	0
Standards in the context of individual specialties						
TECHNICAL SCIENCES AND TECHNOLOGIES						
		<i>Educational programs in the areas of "Technical science and technology", such as "5B072800-Technology of processing industries (by industry)", "5B073200-Standardization and certification (by industry)", etc., must meet the following requirements:</i>				
114	1.	In order to familiarize students with the professional environment and current issues in the field of specialization, as well as to acquire skills based on theoretical training, the educational program should include disciplines and activities aimed at gaining practical experience and skills in the specialty in general and in the major disciplines in particular, including: - excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, educational and experimental farms, etc.), - conducting individual classes or entire disciplines at the enterprise of specialization, - conducting seminars to solve practical problems relevant for enterprises in the field of specialization, etc.	+			
115	2.	The teaching staff involved in the education program should include full-time teachers with long-term experience as full-time employees in enterprises in the area of specialization of the education program.		+		
116	3.	The content of all EP disciplines should be based in one way or another and include a clear relationship with the content of fundamental natural sciences, such as mathematics, chemistry, physics.		+		
117	4.	EP management should provide measures to strengthen practical training in the field of specialization.	+			
118	5.	EP management must provide training for students in the use of modern information technologies.		+		
Total by standard			2	3	0	0
TOTAL			22	76	20	0