

**INDEPENDENT AGENCY OF ACCREDITATION AND RATING**  
**External commission of experts**



Independent agency for  
accreditation rating

**It is addressed  
To accreditation  
to council of IAAR**

**REPORT**

**on results of the work of an external commission of experts about assessment  
on compliance to requirements of standards of specialized accreditation of  
educational programs**

**5B080600 "Agrarian equipment and technology", 5B071200 "Mechanical  
engineering", 5B073200 "Standardization, certification and metrology" (on branches),  
5B080100 "Agronomics"**

**KOSTANAY ENGINEERING AND ECONOMIC UNIVERSITY  
NAMED AFTER M. DULATOV**

**from November 18 to November 20, 2015**

### **Kostanay, 2015.**

According to the order of Independent agency of accreditation and a rating 29-15-OD of 16.11.15 the external commission of experts (ECE) carried out an assessment of compliance of an educational program to standards of specialized accreditation of NAAR. in the Kostanay engineering – economic university named after Myrzhakyp Dulatov The report of the external commission of experts (ECE) contains an assessment of the presented educational programs of the organization of education to criteria of IAAR, recommendation of ECE about further improvement of educational programs and parameters of a profile of educational programs.

#### **Structure of ECE:**

**The commission chairman** is Kosov Vladimir Nikolaevich, Doctor of Physical and Mathematical Sciences, professor, Abay Kazakh National Pedagogical University.

1. **The foreign expert** – Pyotr Gayek (Petr Hajek), PhD, professor of the Central Bohemian University (Prague, the Czech Republic);
2. **The expert** - Turtkarayeva Gulnara Bayanovna, Candidate of Pedagogic Sciences, Associate Professor, Sh. Ualikhanov Kokshetau State University (institutional);
3. **The expert** - Hamrayev Sheripidin Itakhunovich, Candidate of Engineering Sciences, Associate Professor, Abay Kazakh National Pedagogical University (cluster1);
4. **The expert** - Sembayev Nurbolat Sakenovich, Candidate of Engineering Sciences, S. Toraygyrov Pavlodar State University (cluster1);
5. **The expert** - Aldabergenova Saule Salimzhanovna, Master of Engineering Sciences, S. Seyfullin Kazakh Agrotechnical University of (2nd cluster);
6. **The expert** - Akhmedyanov Abdullah Ugubayevich, Candidate of Engineering Sciences, Associate Professor, L.N. Gumilev Euroasian National University (the 2nd cluster);
7. **The employer** - Olkinyan Lyudmila Yurevna, the director of the Center of training and personnel development JSC Agromashholding and Saryarkaavtoprom LLP (Kostanay);
8. **The student** - Abilnasirova Symbat Adilbekkyzy, 3rd year student of ENU;
9. **The observer from Agency** - Kanapyanov Timur Erbolatovich, the head of the international projects of Agency (Astana).

## CONTENTS

|   |  |    |
|---|--|----|
| 1 | REPRESENTATION OF THE KOSTANAY ENGINEERING – ECONOMIC UNIVERSITY NAMED AFTER MYRZHAKYP DULATOV ..... | 4  |
| 2 | GENERAL ASSESSMENT OF EDUCATIONAL PROGRAMS .....   | 5  |
| 3 | DESCRIPTION OF VISIT OF ECE .....  | 6  |
| 4 | COMPLIANCE TO STANDARDS OF SPECIALIZED ACCREDITATION .....   | 8  |
|   | RECOMMENDATIONS TO THE UNIVERSITY .....  | 26 |
|   | RECOMMENDATION TO ACCREDITATION COUNCIL .....  | 27 |

INDEPENDENT AGENCY

## **1 REPRESENTATION OF THE KOSTANAY ENGINEERING – ECONOMIC UNIVERSITY NAMED AFTER MYRZHAKYP DULATOV**

The Kostanay engineering – economic university named after Myrzhakyp Dulatov (KENEU) is the higher educational institution having the status of the legal entity, realizing professional educational programs of higher and postgraduate education.

KENEU has necessary standard and legal documents for maintaining the educational activity (the license No. 12020748 from 11/5/2012, Charter of KENEU, a package of internal standard materials, professional educational programs).

The basis for KENEU's emergence, his formation and further development was the opening of the LLP "Institute of Business and Management" in 1996, which a year later was transformed into the institution «Institute of Business and Management" in which students of three economic specialties were trained: "Economy and management", "Accounting and audit", "International economic relations". In 1999 the first release of 43 students on the reduced educational program of internal and extramural studies has been carried out. In 2000 the contingent of graduates was 56 people, in 2001 – 150 people.

In February, 2001 the Institute of business and management has been transformed into the engineering and economic university. On May 30, 2003 according to the government resolution of the Republic of Kazakhstan No. 497 "About the naming and renaming of the educational organization of RK" the university has appropriated a name of the Kazakh public figure Myrzhakyp Dulatov. In April, 2007 the private institution "Kostanay engineering and economic university named after M. Dulatov" became a founder of the private institution "The Kostanay engineering and pedagogical university.

In 2009 the university has successfully passed the state certification on compliance of training level of specialists to the state obligatory standards of formation of RK.

In 15.12.2011 the private institution "Kostanay engineering and economic university named after M. Dulatov" has been reorganized by accession of the Kostanay engineering and pedagogical university.

Development of the Kostanay engineering and economic university named after M. Dulatov is defined by aiming at transition from a former model of training specialists to the international practice, integration into the European zone of the higher education.

On September 16, 2011 KENEU has signed the Great Charter of Universities ("Magna Charta Universitatum", Bologna).

Now the structure of the University includes 3 faculties (Economic, Engineering and technological, Faculty of the correspondence and distance learning), 8 departments ("Economy", "Management", "Account and audit", "History of Kazakhstan and social and humanitarian disciplines", "Standardization and food technologies", "Information technologies and automatic equipment", "Power and mechanical engineering", "Transport and service"), the Department of planning and organization of educational process, the Training center on retraining and professional development of shots, the Center of energy efficiency, Information and technical center, Consulting center, Technical and economic college, etc. Eight departments of the university conduct preparation on 18 specialties of bachelor degree and two programs of magistracy.

In 2011 two specialties of bachelor degree have passed accreditation in the AIOR Accreditation center (Russia) with assignment of the European quality mark of EUR-ACE® Label: 050732 "Standardization, metrology and certification"; 050713 "Transport, transport equipment and technologies".

Nowadays KENEU is a system of multilevel education: advanced training courses, educational and technical center for preparation of working professions, college, bachelor degree, magistracy.

## 2 GENERAL ASSESSMENT OF EDUCATIONAL PROGRAMS

The Kostanay engineering and economic university named after M. Dulatov carries out activity according to:

1. The charter the Kostanay engineering and economic university named after M. Dulatov approved by the solution of general meeting of founders from 3.27.2012

2. State license for the right of rendering educational services: license No. 12020748 of 05:11. 2012, the given MES RK and appendices:

- 5B080600 "Agrarian equipment and technology" (No. 12020748 AB of November 05, 2012);

- 5B071200 "Mechanical engineering" (No. 12020748 AB of November 05, 2012);

- 5B073200 "Standardization, certification and metrology" (on branches), (No. 12020748 AB of November 05, 2012);

- 5B080100 "Agronomics" (No. 12020748 AB of November 05, 2012).

In 2014 the IAAR independent agency carried out a rating in the directions and levels of a bachelor degree/magistracy. In a rating of higher education institutions on a bachelor degree in the specialty 5B073200-Standardization, certification and metrology KENEU have taken the 9th place after the Kazakh National University named after Al-Farabi, the Almaty technological university, the Kazakh agrotechnical university named after S. Seyfullin.

The accredited educational programs are realized according to the state obligatory standards of formation of RK, the State program of a development of education of RK for 2011 - 2020, the Program of development of the territory of the Kostanay region for 2011-2015, Strategic plan KENEU on 2014-2020, Development plans for the appropriate educational programs.

The maintenance of educational programs is developed on the basis of the principle of continuity taking into account modern achievements of science, equipment and requirements of production.

Catalogs of modules of educational programs are annually updated according to recommendations of employers.

Quality of training of bachelors and masters is provided with high qualification of the staff developed by infrastructure of the university, application of modern technologies of training and control of the knowledge which are trained integration of science and education.

The maintenance of the accredited educational programs is formed according to requirements of GOSO, studying of the general obligatory modules, obligatory modules in the specialty, modules at the choice of trained in the specialty is provided.

Educational programs 5B080600 "Agrarian equipment and technology", 5B071200 "Mechanical engineering", 5B073200 "Standardization, certification and metrology" (on branches), 5B080100 "Agronomics" have the following positive sides:

- modular structuring of educational programs;

- development of educational programs taking into account competence-based approach;

- educational programs provide a possibility of creation of an individual trajectory of training;

- in educational programs the balance of theoretical and practical modules is observed, experts are involved in implementation of the contents;

- management of educational programs closely cooperates with potential employers and representatives of bases the practician: attraction to development, examination and realization of educational programs;

- forms of control are adequate to the formed competences;

- the scientific library, provides an access to "Republican interuniversity electronic library" and other open and partner libraries (Thomsonreuters, SpringerLink, the Electronic state library stock, the Kostanay regional universal scientific library named after L. N. Tolstoy, the Library of the Ural Institute of Stock Market, the MGAU Educational and methodical portal

named after V.P. Goryachkin, Scientific library TREASURY named after Al-Farabi, Scientific electronic library, the Central scientific library of MES RK, Electronic library on business, finance, economy and related topics, Electronic library of economic and business literature, Electronic resources of the Russian state library, Library of railway literature, etc.)

- information resources function: Control system of educational process of AIS "Platonus", Electronic library.

### 3 DESCRIPTION OF VISIT OF ECE

Activity of ECE the Independent agency of accreditation and rating (further – IAAR) was carried out on the basis of the Program of audit of an external commission of experts in KENEU on institutional and specialized accreditation of educational programs during the period from November 18 to November 20, 2015.

Materials, necessary for work, have been presented to members of an external commission of experts of IAAR. For the purpose of an assessment, specifications and additions of contents of the submitted self-reports have taken place meetings with the rector, vice rectors, the chief of the department of organization and planning of educational process, the head of the planning department of educational process, the head of department of the organization and control of educational process, the head of Office of the registrar, the head of the center of distance learning, the manager. department of a magistracy, the head of department of public relations, the head it is information – the technical center, main the accountant, the leading expert on financial and economic problems, the head of the center of remote education, the manager of library, the director of a sports complex, the chief of an economic board, commandants of cases, the head of department of the educational work managing a medical aid station, the director of a sports complex, the chairman of student's self-government, edvayzer, deputy deans for teaching and educational work responsible for educational work, the dean of engineering and technological faculty managing departments, teachers, students, graduates, employers. In total 236 people (table 1) have participated in meetings.

**Table 1 - The information about employees and trained, participated in meetings with ECE IAAR**

| <b>Category of participants</b>                               | <b>Quantity</b> |
|---|-----------------|
| Rector  | 1               |
| Vice rector for activities                                    | 3               |
| The deans managing departments, heads of structural divisions | 30              |
| Teachers  | 62              |
| Students  | 69              |
| Graduates   | 41              |
| Employers   | 30              |
| <b>In total</b>   | <b>236</b>      |

The actions planned within audit of an external commission of experts of IAAR promoted detailed acquaintance of experts with educational infrastructure of the university, material resources, the faculty, representatives of employers, students, graduates. It allowed members of an external commission of experts of IAAR to carry out an independent assessment of compliance of the data stated in reports on a self-assessment of the accredited educational programs, criteria of standards of specialized accreditation.

In the course of the work of an external commission of experts the following types of works are carried out:

- 1) visual survey of infrastructure and material and technical resources:

- laboratories (hardware of networks and communication systems, control system and microelectronics, technical and chemical control, chemistry, examination of grain quality and foodstuff, resistance of materials, details of cars and hoisting-and-transport mechanisms, diagnostics and tests of power stations, organization of train service, technological processes of machine-building production, organization of work of a switchyard);

- sports complex;
- libraries;
- medical aid station;
- museum of M. Dulatov;
- computer classes;
- point of food.

2) studies according to the approved schedule are attended:

- 5B080600 "Agrarian equipment and technology" - laboratory research on discipline "Technical service in the agrothought complex", group 1AT411, the senior teacher Chursinov M. V. (Subject of laboratory work: Diagnosing and service of KShM (definition of gaps in radical bearings of a cranked shaft).

- 5B071200 "Mechanical engineering" - practical class, the discipline "A basis of designing and a detail of cars", group 1mach311, 1mach321, the senior teacher Vodyasov E.V. (Subject of practical occupation: Design and assembly of a reducer). Classes are given with the use of an active method of training – a brainstorming method.

- 5B073200 "Standardization, certification and metrology" (on branches) lecture class in discipline "Methods and gages, test and control", groups 1CCM311, 1CCM321, the teacher, the master Guo Ting-Shin A.N. (Subject of lecture occupation: Types of tests). Classes are given with use of technical means (the computer, a projector, the screen, a laser pointer, the laptop, audio, a video equipment).

- 5B080100 "Agronomics" practical class, the discipline "Botanist", group 1ag112, associate professor Eseeva G. K. (Subject of practical occupation: " Өсімдіктердің вегетативті органдары").

3) documentation of the departments realizing the accredited educational programs is studied;

4) the practician bases of the accredited educational programs are visited: LLP "Saryarka Avtoprom", KF JSC "Agromash Holding", LLP "Evraz Kaspian Stal", KF RGP "Kazakhstan Institute of Standardization and Certification", LLP "SAPA Firm", "The Kostanay research institute of agriculture".

For the work of ECE all conditions have been created, access to all necessary information resources is organized.

Within the planned program the external commission of experts prepared recommendations about improvement of the university activity and presented them at the meeting with the administrative board of the university on November 20, 2015.

## 4 COMPLIANCE TO STANDARDS OF SPECIALIZED ACCREDITATION

### 4.1 Standard “Management of the Educational Program”

Management and development of EP 5B080600 "Agrarian equipment and technology", "Mechanical engineering", 5B073200 "Standardization, certification and metrology" (on branches), 5B080100 "Agronomics" is carried out according to standard and legal documents of the Republic of Kazakhstan and MES RK, Strategic plan of KNEU on 2014-2020, taking into account the State program of development of education of the Republic of Kazakhstan for 2011-2020, provisions, mission and strategic priorities of the university development.

Educational programs are projected according to GOSO of specialties and GOSO of the higher and postgraduate education approved by the Resolution of the government of RK will be coordinated with mission of the university and the corresponding inquiries of employers. The commission notes the sufficient level of the provided high-quality educational services in higher education institution, adequacy of the accredited educational programs to modern requirements of society and problems of development of the region.

Planning of the educational process is presented by structure of the interconnected documents (standard curricula, catalog of modules, basic working curricula, individual curricula of students, undergraduates, working curricula of specialties) and a complex from different types of educational and methodical documentation. Catalogs of elective disciplines (CED) in which disciplines of a component for choice with the indication of the summary, pre-and post-requisites are described are annually developed for realization of an educational program. CED is available to students on paper and electronic media (in AIS "HIGHER EDUCATION INSTITUTION", in dean's office of engineering and technological faculty, at departments). Programs of disciplines are developed at the due scientific and methodical level.

In management of EP the information system is used, its basic elements are: ACS "HIGHER EDUCATION INSTITUTION", the automated information Platonus system, the automated library and information system "Standart KABIS", Electronic library (<http://lib.kineu.kz>).

In the course of training the student obtains information from the teacher (the magazine of studies). For the purpose of expeditious informing students "The private office of the student" is created. The private office settles down in a subsystem "The student's office" (<http://cabinet.kineu.kz>) and includes such resources as: academic calendar; reference book guide; catalogs of elective disciplines; bases the practician on specialties; entrance to electronic library КИНЭУ; selection of references to open electronic libraries. Here data on the current progress of the student, on results of examination, on rating estimates and the current level of payment of the student are placed. Students and their parents have access to "Private office" on the Internet.

Process and procedure of the statement of educational programs are supported due to development of standard and administrative documentation and ensuring its availability to a collective.

Realization of educational programs and compliance to their vision, mission and strategy is provided, first of all, through the system of planning. According to mission of engineering and technological faculty, the purpose of an educational program is providing the region of experts with fundamental knowledge, with the practical skills necessary for production. The strategy of development of engineering and technological faculty and departments "Transport and Service", "Power and Mechanical Engineering", "Standardization and Food Technologies" is the basis for development by departments plans of development of EP.

The maintenance of EP is developed on the basis of the principle of continuity with the previous education levels; provides completeness of each educational stage and gives the chance to interrupt education for transition to the sphere of professional activity, or to continue education. The purposes, tasks, contents, methods, technologies, means and forms of the

organization of training at all education levels are coordinated among themselves.

The website [www.kineu.kz](http://www.kineu.kz), own information system and the database of students and staff introduced in a uniform cover together with Platonus functions in the university. Activity of the website is directed to implementation of the authorized representation in the Internet networks and includes the following sections in three languages: "About the university", "For you", to "Entrant", "Faculties", "Science", "Partnership", "Virtual library", "Student's associations", "Sport", "The blog of the rector", "A rating of higher education institution".

For realization of EP are available and constantly necessary information and technological resources develop: AIS "Platonus" (<http://cabinet.kineu.kz>), electronic library (<http://lib.kineu.kz>)

The official site of the university contains accessible special forms of feedback (to write to us, I want to study in KENEU) in which any interested person can write a message, having attached the data (First name, middle initial, last name, number of the cell phone, the e-mail postal address for contact).

Data on quality and achievements of the accredited EP are published not only on the official site of the University, but also in regional periodicals "Kostanay news", "Agro Kostanay", "A teacher's room plus" (<http://lib.kineu.kz/index.php?post=3817>, <http://lib.kineu.kz/index.php?post=3723>, <http://lib.kineu.kz/index.php?post=2559>).

On all EP modules educational and methodical complexes which are placed in ACS "HIGHER EDUCATION INSTITUTION" are developed. In planning and implementation of the contents of EP results of work in scientific, methodological, methodical, educational and educational spheres of the KENEU's staff are considered. Also when developing EP features of the Kostanay region as large agricultural and industrial region have been considered.

On the basis of a response from the employer Romanov V.A. - the director of LLP "Ural LTD" in the curriculum 5B080600 - "The agrarian equipment and technology" have added a corresponding competence to a trajectory "Agrotechnical service. According to proposals of the employer Sotnikov S.N. - the general director of LLP "EvrakaspianStal" in EP 5B071200 - "Mechanical engineering" the trajectory "Agricultural mechanical engineering" is developed. In connection with the accession of RK to the Customs Union, Sharipov B. M. is the director of the RGP Kostanay branch of the Kazakhstan institute of standardization and certification has suggested to enter discipline "Interstate standardization within the Customs union" into EP "5B073200 - "Standardization, certification and metrology" (on branches). On the basis of Nugmanov A.B. recommendation. - the head of the center of dissemination of knowledge of the LLP "Kostanay Research Institute of Agriculture" the working curriculum of EP "5B080100 - "Agronomics" has included disciplines: Nonconventional and rare cultures", "Programming of harvests of crops".

Identity and uniqueness of the accredited EP is defined by focus on regional labor market, natural resources of the Kostanay region, in particular, as large agricultural and industrial region.

The requirements established by consumers are reflected in catalogs of elective disciplines, working curricula, in individual curricula of students.

Control indicators of development of educational programs are structured by types and activities and contain administrative, educational and methodical, scientific, educational, economic, marketing and professional orientation types of works which are the base at the organization of planning, development and constant quality of the provided services.

Forms of joint management of EP are the Board of trustees, the Academic council, Administration, Educational and methodical council of the university, Council of faculty, Methodical council of faculty.

The board of trustees was created according to the Charter of the university by the solution of the Academic council (No. 1, September 27, 2010) and acts under the Provision on the Board of trustees (the protocol of the Academic council No. 6, December 26, 2011). Members of the Board of trustees are the rector, heads of the organizations, establishments, enterprises, natural persons, employers and social partners, representatives of the public and

scientific organizations: KazaxNIIMESH, KP "Kostanay Heat Power Company", KF JSC "Agromashholding", LLP "Evraz Kaspian Stal", LLP "URALLTD".

On the basis of the existing system of planning at the level of the university and departments regular monitoring of execution and updating of development plans for educational programs and their realization is carried out. During the realization of EP collecting and the analysis of statistics on the contingent trained and graduates, to the available resources, personnel structure, scientific and international activity and other directions is carried out and extent of achievement of the planned results is traced.

In effective forms the system of feedback focused on trained, workers and interested persons is presented. These are systematic meetings of the rector with collective, carrying out Council of faculty with participation of the top management, functioning of institute of a coaching, direct mail of the rector in the form of the rector's blog on the website of the university.

On the basis of the analysis and an assessment of indicators of control the warning and correcting actions which efficiency and productivity is considered at faculty meetings, UMS and council of faculty are developed.

The commission notes close interaction of the letting-out departments with employers in questions of the organization the practician, degree design, during the carrying out professional orientation work, distribution of graduates.

**Strengths of EP are:**

- coherence of the development plan for educational programs with the directions of national policy in the fields of education, sciences and innovative development;
- existence of the automated electronic systems on management of processes in the university;
- the established relation with the organizations of production in the field of practical training.
- within EP 5B073200 "Standardization, certification and metrology" (on branches) on the basis of KENEU TK-44 "Technologist" is organized which provides close interrelation of students with production functions (students are participants when developing and examinations of the reference document).

**Weaknesses of EP are:**

- insufficient cooperation with other higher education institutions in the academic mobility, research activity and other aspects of realization of educational programs;
- insufficient efficiency of the mechanism of an assessment of internal and external risks (formation of the contingent, financial stability, etc.) at realization of EP;
- in insufficient degree of involvement of group representatives of the interested people (who are students, stuff and employers) to formation of the development plan for EP (when developing educational trajectories, elective courses, etc.) is provided.

**The commission recommends:**

- to improve activities for involvement of subjects of educational process to design of EP maintenance;
- to intensify cooperation with the domestic and foreign higher education institutions realizing similar educational programs;
- to develop the mechanism of an assessment of risks at realization of educational programs.

**ECE notes that by 3 criteria the university has strong positions, by 32 criteria - satisfactory positions, by 2 criteria improvement is required.**

#### **4.2 Standard "Specifics of the Educational Program"**

The maintenance of the accredited educational programs for specialties is developed according to requirements of the scientific, theoretical and practical direction of professional and

social competence. Formation of competence-based models of the graduate on the accredited EP was carried out on the basis of inquiries of consumers and according to requirements of labor market.

Formation of EP 5B080600 – "Agrarian equipment and technology" and competence-based model of the graduate of this program is caused by the growing requirements of the enterprises of agro-industrial complex for technical service of agricultural machinery.

Formation of EP 5B071200 – "Mechanical engineering" is caused by the growing requirements of the enterprises of a machine-building complex for the experts having fundamental and special preparation of high level on this specialty.

Creation of EP 5B073200 – "Standardization, certification and metrology" (on branches) is connected with the growing requirements of the enterprises for the experts owning methods and measuring instruments, metrological ensuring production, social and ecological activity, design, production and operation of measuring equipment, possessing knowledge of standard documentation, systems of quality management.

The need for concrete characteristics of experts of EP 5B080100 – "Agronomics" is established on the basis of official and informal communication with specialists of Republican, regional, local governing bodies, enterprises, organizations, Management of business and industrial and innovative development of the Kostanay region, Department of Agriculture of the Kostanay region. Besides, heads of such enterprises as LLP "PTK Sodruzhestvo", LLP "Kostanay Scientific Research Institute CX", Land committee of Kostanay having a direct bearing on cultivation of crops, processes (works), have expressed to the equipment of the enterprises objective interest in common cultural and professional competences of graduates of EP 5B080100 – "Agronomics" that has found reflection in competence-based model.

Working curricula have provided all educations established by the standard and TLPs, and volumes of time for their carrying out correspond to standards.

The accredited educational programs provide a possibility of creation of an individual educational trajectory, the accounting of the personal requirements and opportunities which are trained. The freedom of disciplines' choice is realized through representation the catalog of elective disciplines at the choice of a trajectory of studying of a course. The management of EP provides the students with equal opportunities, including regardless of language of training in formation of the individual educational program directed to formation of professional competences. Advance of students on an educational trajectory, their achievements are monitored in the existing system of monitoring.

For control over educational process and over performance trained the curriculum at university the system of intra high school control (the electronic magazine of exposure of estimates) works. When receiving on total control an assessment "unsatisfactorily" this discipline isn't counted. The student, who do not concordant with an examination assessment, can appeal it. Specially created commission of the qualified teachers of department considers the appeal.

Regular studying of requirements of employers of the Kostanay region and adjacent areas defines the adequate maintenance of the main educational programs. Employers as active and interested party, also participate in providing bases and organization of students' practicing. The employers who are involved in development and realization of EP get out proceeding from the direction them a production activity and its compliance to a profile of students' preparation.

Educational programs have included the components necessary for development of intellectual, social and personal, academic and professional competences of bachelors. These components contain obligatory and elective objects of a main cycle.

The logical sequence and continuity of development is provided with EP which are students content by means of system of pre-requisite and post-requisites of disciplines including observance of logic of the academic interrelation of disciplines, sequence and continuity. In educational programs the balance between theoretical and practice-focused disciplines is observed.

Programs of the basic and main subjects include modern achievements of science,

equipment and technology of management for the direction of preparation. The list of subject matters taking into account needs of employers is regularly revised. Systematically enter the disciplines allowing to receive skills of work on the equipment used on production into EP. Programs of the basic and main subjects include modern achievements of science, equipment and technology of management for the direction of preparation.

Members of ECE have led discussions with the staff, employers, graduates of different years and students of different courses. Employers which were present at the meeting: Solovyov G. S. - the deputy director for production of LLP "Agrotechmash", Sharipov B. M - director of the RGP Kostanay branch of Kazinst, Nugmanov A.B. - director of LLP "KOSTNIISKH". They given in general a positive assessment to the level of training of students and graduates.

At the same time employers and graduates recommended: to increase quality of language training, to expand IT competence, to increase the level of professional culture of graduates.

Graduates said that they keep in contact with the university and teachers. They said that they could realize themselves in a profession thanks to the knowledge gained in the university and expressed satisfaction with the position, career development.

Interviewing of the staff showed that they freely are guided in contents and structure of EP, answered questions of a commission of experts substantially and with deep arguments. Teachers expressed satisfaction with the existing system of the differentiated compensation, a condition of material and technical resources in general, but at the same time they noted some objective difficulties with formation of professional motivation of students.

The assessment of quality of educational programs has been carried out on the basis of the analysis of working curricula, the catalog of elective disciplines, UMCD, questioning of students and undergraduates, the staff, visit of occupations, library, the gym, the hostel.

The analysis of the attended classes shows that in educational process active forms and methods of carrying out occupations, and also information and communication and other network technologies are regularly used.

Questioning showed partial satisfaction of the vast majority of students with quality of the rendered educational services. At anonymous questioning of students (45 people) respondents note full satisfaction with:

- general quality of training programs (71,1%);
- level of availability of the dean's office (88,9%)
- training methods in general (66,7%);
- explanation of rules and strategy of an educational program before receipt (specialty) (91,1%);
- justice of examinations and certification (76,5%);
- informing students on courses, educational programs and academic degrees (75,6%).

At anonymous questioning of teachers (65 people) respondents note:

good and very good mark of an involvement of the staff into process of adoption of administrative and strategic solutions of 49,2% and 35,4% respectively;

good and very good reflection of mission of the university in training programs (respectively, 53,8% and 44,6%); in an assessment procedure (66,2% and 33,8%); in innovative programs (61,5% and 36,9%);

good (47,7%) and very good (50,8%) level of attention of the management of the university to the maintenance of an educational program;

The use of active methods by teachers in a high school process of training promotes overcoming of stereotypes in training, elaboration of new approaches to professional situations, development of the creative abilities which are trained.

Game design (designing) is applied to carrying out a practical training associate professor Rumyantsev A.A. on the discipline "Designing of farm vehicles with the SAPR elements" and the senior teacher Chursinov M. V., the discipline "Design of the enterprises of agrotechnical service. Associate professor Ivanchenko P.G. when teaching the discipline "Foreign agricultural machinery" uses in problem seminars a discussion method in small groups that creates

conditions for development of critical thinking, developments of communicative skills. In the course of teaching the discipline "An interchangeability basis" Cand.Tech.Sci. Bedych T.V. gives lectures with the programmed mistake, lectures briefings. For creation of the productive environment of training Cand.Tech.Sci., the senior teacher Lyakhovetskaya L.V. within disciplines "The engineering graphics", "Descriptive geometry" uses a designing method, a method of new options and temporary restrictions.

For laboratory classes in EP 5B080100 – "Agronomics" is used metrological laboratory of LLP "KOSTNIISKH" as a branch of the department. Classes are given in the following disciplines: "Agrochemistry", "Selection and seed farming of agricultural cultures", "Plant growing", "Protection of agricultural cultures against wreckers and diseases". Classes are given by the leading teachers of department – Tulebayeva B. B., Nazarov Zh.Zh.

**Strengths of EP are:**

- criteria and processes of an assessment of knowledge are transparent and available to students;
- existence in the maintenance of subject matters of a professional context;
- existence of effective system of the individual help and consultation of students;
- opportunities of passing the practice in the specialty are provided;
- preparation on EP 5B071200 – "Mechanical engineering" in the Kostanay region is carried out only in KENEU.

**Weaknesses of EP are:**

- the system of application of innovative methods of training (a case methods, tabulation other) and developments of own techniques of teaching in the university is insufficiently developed;
- harmonization of maintenance of educational programs regarding unification of trajectories with educational programs of the leading foreign and Kazakhstan higher education institutions isn't fully traced;
- there is no continuity of maintenance of EP on preparation levels (M, D).

**The commission recommends:**

- to speed up work on cooperation with the leading higher education institutions of the Republic of Kazakhstan and foreign higher education institutions within carrying out joint scientific researches and harmonization of educational programs;
- to intensify the use of innovative technologies in educational process, to provide development of own methods of teaching in higher education institution;
- to carry out the work on providing a continuity of maintenance of the accredited EP in the university (opening 2 levels of training - Magistracies).

**ECE notes that by 2 criteria of this standard in the university has strong positions, by 22 criteria - satisfactory positions, and by 9 criteria improvement is required.**

### **4.3 Standard "Stuff and Efficiency of Teaching"**

Indicators on qualitative and quantitative structure of the stuff confirm the presence of the personnel potential necessary for realization of educational programs and conforming to qualification requirements to licensing of educational activity. At the heart of the system of selection of the stuff at employment in the university are guided by the Provision of an order of replacement of positions of stuff and scientists (KENEU, the edition 2 of December 24, 2012) which is developed on the basis of Rules of competitive replacement of positions of the stuff and scientists of higher educational institutions (No. 230 and Standard qualification characteristics of positions of pedagogical workers and the persons equated to them, the Republics approved by the order of the Minister of Education and Science No. 338 are approved on July "13", 2009 by the Resolution of the government of RK of February 17, 2012 (with changes and additions from 6.9.2011).

Among the teachers providing EP 5B073200 "Standardization, certification and metrology" (on branches) 64,7% have an academic degree.

Among the teachers providing EP 5B080100 "Agronomics" have an academic degree - 76%.

Total number of teachers of the department "Standardization and Food Technologies" - 21, 13 of them are candidates of science –. The number of regular staff with academic degrees and ranks makes 61,9%.

Among the teachers providing EP 5B071200 "Mechanical engineering" have an academic degree 60% of teachers.

Total number of teachers of the department "Power and mechanical engineering" - 24, 13 of them are with scientific degree. The number of regular staff with academic degrees and ranks makes 59%.

Among the teachers providing EP 5B080600 "Agrarian equipment and technology" have an academic degree 57%.

Total number of teachers of the department "Transport and service" - 20 people, 10 of them are with a scientific degree. The number of regular staff with academic degrees and ranks makes 50%.

The University staff have the state awards, honorary titles, certificates of honor for merits in RK field of education, among them:

- Honourable educator of the Republic of Kazakhstan, corresponding member of the International academy of agrarian education of 2011 (department "Power and mechanical engineering");

- Academician of the International academy of informatization of 2011 (department "Power and mechanical engineering");

- Corresponding member of the International Academy of Agrarian Education (IAAE), the winner of the award "Shabyt", of the club of the Kostanay patrons in the nomination "Science", (department "Power and mechanical engineering").

- "Thanks of the President of the Republic of Kazakhstan", ("Standardization and Food Technologies" department);

- The winner of the award "Shabyt", of the club of the Kostanay patrons in the nomination "Science", Akim's scholar of area in support of talented youth in 2008, ("Standardization and Food Technologies" department);

- A rank of the Leader of branch - 2013", ("Standardization and Food Technologies" department);

- Associate professor Tulkubayeva S. A. is included in the regional "Book of Gilded youth" on the nomination "Science", ("Standardization and Food Technologies" department).

From 2012 to 2015 teachers of "Power and Mechanical Engineering" department have developed and introduced to the educational process 2 monographs, 65 educational and educational and methodical grants, methodical instructions.

On "Power and Mechanical Engineering" department SRW:

- 1) Carrying out commissioning on the equipment, the contract sum: 50000 tg,

- 2) Development of design technical documentation on the base of support VL-35-110kv located on the flooded soil. Enterprise customer: LLP "Energetik-3", contract sum: 150000 tg.

- 3) Development of technical documentation and production:

- details like "Screw" the class FSR-in number of 50 pieces, details like "Guide" for route model of the car of the class TA-3. Enterprise customer: GKPP "School of Technical Creativity" of the akimat of Kostanay", contract sum: 35000 tg.

- 4) Development of design - technical documentation and model of the use of geosynthetic materials and metal products of LLP "KAZGEOBEL-1". Enterprise customer: LLP "KAZGEOBEL-1, contract sum: 192 916 tg.

For the reporting period the staff of the realizing EP 5B071200 – "Mechanical engineering" 2 articles having an impact-factor (on base of Thomson Reyter) were published, 4

patents were taken out.

For the last three years the staff of "Standardization and Food Technologies" department published 4 monographs and 8 manuals with assignment of ISBN (Erniyazova H.M. – 2, Chernyavskaya O. M., Snegovskikh N. M. – 2, Ruchkina G. A. – 1, Gaidai I.I. – 1, Mukasheva T.K. – 1, Segizbayeva A.S. – 1).

The staff of "Standardization and Food Technologies" department (Muratov A.A., Guo Ting-Shin A.A., Snegovskikh N. M., Chernyavskaya O. M., Ruchkina G. A., Atembekova Zh.E.) according to contracts with RGP "Kazakhstan Institute of Standardization and Certification", within activity of technical committee on standardization 44th "Technologist", from 2012 to 2014 50 national standards of the Republic of Kazakhstan harmonized with the international requirements and also more than 10 interstate standards have been developed and approved. In 2013 according to the Contract No. 87 GZ, February 25 for rendering services in participation in certain stages of development of national standards with RGP "Kazakhstan Institute of Standardization and Certification" national standards of the Republic of Kazakhstan were developed. The sum of the contract made 8970060 (eight million nine hundred seventy thousand sixty) tg.

In 2014 according to the Contract No. 66 GZ of January 24 for rendering services in participation in certain stages of development of national standards with RGP "Kazakhstan Institute of Standardization and Certification" national standards of the Republic of Kazakhstan were developed. The sum of the contract made 10764072 (ten million seven hundred sixty four thousand seventy two) tg.

In 2015 the contract No. 1 of October 21, 2015 was signed with LLP "Kazvod-Consulting" on rendering services in carrying out examination of national and interstate standards according to the operating standard. The sum of the contract made 435000 (four hundred thirty five thousand) tg.

On EP 5B080100 – "Agronomics" under the leadership of Levadny N. S., agrochemical examination of soils in farms is conducted; in the farms "Budenovsky's" "Nadezhda", "Satmurzina G. B.", "Genkulenko N. A.", LLP "Berkut" etc. By results of the carried-out work reports and recommendations about the use of mineral fertilizers were made. In 2014 the contract for scientific services in development of standards in agricultural branch on the subject "Natural Standards of Security of Civil Servants with Household Goods and Office Accessories when Performing Monitoring of the Irrigated Lands" with LLP "KAZ Sever" was signed. The sum of the contract made 300 000 (three million) tg.

From 2012 to 2015 teachers of "Transport and Service" department published 79 articles, from them having an impact-factor (on base of Thomson Reyster)-5; RINTs-23; an impact-factor on the Kazakhstan base of citing - 4; articles in the magazines recommended by KKSON - 5; in collections of international scientific conferences - 29; in collections of republican scientific conferences - 4, in "Nauka" KINEU's magazine -9 (till 2013).

The directions of SRW of the staff of "Transport and Service" department are: development of recommendations about improvement of operating modes of hook-on harvesters "Polesia" ZhVZ-10,7, for the sum of 80000 tg. (customer - LLP "URALLTD").

Planned annual and semester load of teachers, and also its performance is fixed by each teacher in "An individual card of the accounting of an academic load of the stuff" (KENEU 704-06-12). The quality of filling of a card, completeness and reliability of the executed and recorded loading is checked by managers of departments.

Scheduling of the stuff is carried out by proceeding from mission, purposes and tasks of the university. Teachers taking into account an academic load make individual plans of the stuff for every year (KeneuY 704-05-12 "The individual plan of the teacher").

For development of application skills of innovations and information technologies in educational process of the stuff actively participate in the scientific and methodical and training seminars. From 2012 to 2015 83,3% of teachers of "Transport and Service" department passed training in various programs of professional development, 50% of teachers of "Power and

Mechanical Engineering” department, 100% of the staff "Standardization and Food Technologies" department.

On EP 5B080600 – "Agrarian equipment and technology" the foreign teacher Johannes Haas has been invited – professor of University of applied sciences Ioanneum (Austria) held a seminar within the program of the academic mobility of the staff for the students of technical specialties.

On EP 5B071200 – "Mechanical engineering" In March, 2014 professor of University of applied sciences Ioanneum (Graz, Austria) mister Johannes Haas gave lectures on subjects: "Ecology of a sustainable development", "Influence of production on ecology".

EP 5B073200 – "Standardization, certification and metrology" (on branches) and EP 5B080100 "Agronomics" were invited during different periods:

– Samotayev A.A. - Doctor of Biological Science, professor of FGBO VPO "Ural State Academy of Veterinary Medicine" (Troitsk, Russian Federation).;

– Tikhonov S. L. - Dr.Sci.Tech., associate professor of FGBO VPO "Ural State Economic University" (Yekaterinburg, Russian Federation);

– Shakkaliyev A.A. - director of RGP "Kazakhstan Institute of Standardization and Certification" (Astana).

The condition of moral and psychological climate at the departments is characterized by its stability, creative relation to performance of the duties. Level of labor and performing discipline is up to standard.

Monitoring of activity of the staff is carried out in the following form:

- complex assessment of activity of the teacher with participation in competitions on replacement of vacancies;

- monitoring of implementation of individual plans;

- organization of mutually visits according to Position;

- annual report of the staff and its statement at the department;

- statistical analysis of results of knowledge assessment in the educational portal “Platonus”;

- system of questioning of students.

**Strengths of EP are:**

- availability to the public the data about the staff, including placement of questionnaires, catalogs;

- performance of all types of the planned loading by teachers;

- attraction to realization of EP of the experts possessing experience in the relevant branches;

- attraction of investment means for realization of scientific researches on the basis of the Regional innovative center created in KENEU.

**Weaknesses of EP are:**

- internal and external academic mobility of the staff isn't fully developed;

- the mechanism of professional development of the staff regarding transparency, and specializations in the directions of preparation isn't adjusted.

- the lack of system of involvement of young teachers to scientific researches, innovative orientation and creations of their scientific communities.

**The commission recommends:**

- to speed up the work on development of the academic mobility of the staff;

- to fulfill mechanisms of stimulation of professional and personal development of the staff and employees;

- to ensure purposeful functioning on publications of scientific articles of the staff in magazines with an impact-factor in Thompson Reuters and Scopus databases;

- to systematize the work on professional development of the staff on production and specialization.

ECE notes that by 5 criteria of this standard the university has strong positions, by 13

criteria - satisfactory positions, 3 criteria demand improvement.

#### 4.4 Standard “Students”

Reception and admission to training on the accredited EP happens according to normative documents of the Ministry of Education and Science of the Republic of Kazakhstan (MES RK). In 2012 such document was the resolution of the government of RK No. 111, 19.01.2012. "About the statement of standard Regulations of Admission to training in the organizations of education realizing professional training programs of the higher education".

Admission to magistracy is carried out according to the resolution of the government of RK No. 109 from 1.19.2012. "Standard Regulations of Admission to training in the organizations of education realizing professional training programs of postgraduate education". Admission to magistracy is carried out on a competitive basis by results of entrance examinations.

Data on the contingent of students are presented in table 2.

**Table 2 - The contingent of students according to the accredited programs**

| Academic year  | Form of education | Number of students | Students under the grant | Students on a fee basis | Students in the state. language |
|--|-------------------|--------------------|--------------------------|-------------------------|---------------------------------|
| <b>5B080600 "Agrarian equipment and technology"</b>            |                   |                    |                          |                         |                                 |
| 2011/2012  | Full-time         | 30                 | 8                        | 28                      | 2                               |
|  | Correspondence    | -                  | -                        | -                       | -                               |
| 2012/2013  | Full-time         | 23                 | 7                        | 16                      | 2                               |
|  | Correspondence    | -                  | -                        | -                       | -                               |
| 2013/2014  | Full-time         | 38                 | 4                        | 34                      | 3                               |
|  | Correspondence    | -                  | -                        | -                       | -                               |
| 2014/2015  | Full-time         | 33                 | 2                        | 31                      | 3                               |
|  | Correspondence    | 1                  | -                        | 1                       | -                               |
| 2015/2016  | Full-time         | 2                  | -                        | 2                       | 0                               |
| <b>5B071200 "Mechanical engineering"</b>                       |                   |                    |                          |                         |                                 |
| 2010-2011  | Full-time         | 30                 | 7                        | 23                      | 0                               |
|  | Correspondence    | 27                 | -                        | 27                      | 0                               |
| 2012/2013  | Full-time         | 23                 | 7                        | 16                      | -                               |
|  | Correspondence    | 22                 | -                        | 22                      | 0                               |
| 2013/2014  | Full-time         | 37                 | 7                        | 30                      | 0                               |
|  | Correspondence    | 18                 | -                        | 18                      | 0                               |
| 2014/2015  | Full-time         | 44                 | 7                        | 37                      | 0                               |
|  | Correspondence    | 4                  | -                        | -                       | 0                               |
| 2015/2016  | Full-time         | 4                  | -                        | 4                       | 0                               |
| <b>5B073200 "Standardization, certification and metrology"</b> |                   |                    |                          |                         |                                 |
| 2011/2012  | Full-time         | 107                | 2                        | 105                     | 11                              |
|  | Correspondence    | 91                 | -                        | 91                      | 1                               |
| 2012/2013  | Full-time         | 67                 | 2                        | 65                      | 11                              |
|  | Correspondence    | 52                 | -                        | 52                      | -                               |
| 2013/2014  | Full-time         | 94                 | 2                        | 92                      | 1                               |
|  | Correspondence    | 15                 | -                        | 16                      | -                               |
| 2014/2015  | Full-time         | 67                 | -                        | 67                      | 0                               |
|  | Correspondence    | 4                  | 4                        | -                       | 0                               |
| 2015-2016  | Full-time         | 1                  | 0                        | 0                       | 0                               |
| <b>5B080100 "Agronomics"</b>                                   |                   |                    |                          |                         |                                 |
| 2011/2012  | Full-time         | 52                 | 7                        | 45                      | 15                              |
|  | Correspondence    | 144                | -                        | 144                     | -                               |
| 2012/2013  | Full-time         | 37                 | -                        | -                       | -                               |
|  | Correspondence    | 44                 | 3                        | -                       | -                               |
| 2013/2014  | Full-time         | 69                 | 1                        | 68                      | 15                              |
|  | Correspondence    | 77                 | -                        | 77                      | -                               |

| Academic year | Form of education | Number of students | Students under the grant | Students on a fee basis | Students in the state. language |
|---------------|-------------------|--------------------|--------------------------|-------------------------|---------------------------------|
| 2014/2015     | Full-time         | 83                 | 1                        | 82                      | 9                               |
|               | Correspondence    | 36                 | -                        | 36                      |                                 |
| 2015-2016     | Full-time         | 17                 | -                        | 17                      | 0                               |

One of the strengths of the university the commission notes the developed policy in the organization of educational process and availability of information materials to students. As a source for expeditious receiving network electronic educational and methodical complexes of disciplines, working curricula, information on progress students actively use the "Platonus" software product, electronic library of the university.

"Reference book guide" with information on educational process is placed for students: the basic concepts of credit technology of training, the rule of organization of educational process, an assessment procedure of knowledge at the university, an order of the transfer to the following course, eliminations of the academic debt, transfer to other educational institution, restoration, assignment, providing the academic holiday, etc.

On the basis of industrial practice the laboratory "Modelling and Application of Technological Processes" of KENEU the students can master skills of modeling on machines with ChPU robotics, 3D - programming and to study work bases on modern lathes. This laboratory is created within the Road Map of Business of 2020 program, on its base advanced training courses for employees of other enterprises (LLP "Aktobemunaymashkomplekt" and LLP "Evraz Kaspian Stal", etc.) are conducted.

The research work of the students is a component of training of specialists at the university and is carried out by means of:

- organization of activity of SSS (students' scientific society) of the university;
- participations of students in research activity according to the main subjects of SRW (carrying out experiments on the basis of research establishments of area, forwarding researches, joint researches according to the plan of research laboratories, grant activity, etc.);
- preparation special course and theses;
- participation in the financed research projects and programs;
- participation in mass scientific actions of various level (conferences, seminars, "Days of science", etc.);

SRW with students is conducted systematically, since the 1st course, results of scientific researches students use on seminar occupations, when performing course and theses. Then students are given the chance to prove individually, participating in work on projects and in work of the student's scientific and practical conferences held in the university and beyond his limits.

The students' scientific society (SSS) "Electro", engineering club "Koleso" functions at the faculty. SRWS is carried out together with teachers, enterprises, on the creative commonwealth with scientific research institute and manufacturing enterprises.

In 2014-2015 Ivanov Maxim (the student of the 3d course), Kikolenko Anatoly (the student of the 4th course), Kadnikov Ivan (the student of the 4th course), trained on EP 5B071200 – "Mechanical engineering" completed a course according to the additional professional program "Technology of mechanical engineering. Improvement of technology of work process on machines with numerical program control".

Since February, 2013 the International scientific and educational center of computer technologies (APTECH) functions in KENEU.

Under the scientific guide of the senior teacher of "Power and Mechanical Engineering" department Vodyasov E.V., the student of the 4th courses of EP 5B071200 – "Mechanical engineering" Kikolenko Anatoly and Kadnikov Ivan participated in the Olympic Games CAD-OLYMP 2014, they were among finalists for participation in the final the Olympic Games in 18 and 19 of November, 2014 in Moscow.

Kadnikov Ivan during 2014 participated in international competition– "Future ASY Computer 3D - modeling", carried out annually by the ASKON company. For creation of model

of the 3-dimensional spring harrow consisting of 4170 details capture of 24 meters wide Kadnikov Ivan has been awarded by the diploma of the participant at a ceremony of rewarding of winners of the competition "Future EXPERTS Computer 3D — Modelling of 2014" in autumn 2014 in St. Petersburg.

On November 29, 2014 the trained EP 5B071200 – "Mechanical engineering" Ivanov Maxim, Iskakov Baurzhan, Kikolenko Anatoly and Kadnikov Ivan have participated in the International student's Olympic Games on 3D modeling "Vector-3D + graphics", in Magnitogorsk where Kadnikov Ivan has taken the 1st place.

Annually the Student's scientific and practical conference "Dulatov Readings" takes place.

On April 11, 2014 in Astana in the Euroasian national university named after L.N. Gumilev the IX International scientific conference of students and young scientists "Science and education-2014" was taken place in which 2 reports of the student of the 3d courses of EP 5B071200 – "Mechanical engineering" acted: Iskakov Baurzhan and Esniyazova Botagoz. The research supervisor of the students – the senior teacher Vodyasov E.V. By results of the conference students were awarded by certificates and diplomas, the collection of articles was published.

On April 10-11, 2014 in Pavlodar at the Euroasian Innovatsionny university there has taken place the XI International scientific conference of the students and young scientists "Integration of science and education – a step to the future" where the student OF EP 5B071200 – "Mechanical engineering" Kadnikov I. made the report and gained the diploma of the 2d degree.

At the competition SRWS of 2013 on the basis of the Kazakh national agricultural university according to the section "Agricultural Sciences and Services" the student of the 3rd course of EP 5B080100 – "Agronomics" Zhiyenbayev Saparbek was awarded by the diploma of the Ministry of the III degree for work "Agrochemical inspection of soils of agricultural grounds of the Kostanay region".

In 2013-2014 the student of the 4th course of EP 5B073200 – "Standardization, certification and metrology" (on branches) Bukenbayev Nursultan under the leadership of the associate professor Eseeva G. K. took part in the Republican scientific and practical conference in Astana.

In 2013-2014 according to the program of internal academic mobility students of EP 5B071200 – "Mechanical engineering" Ivanov Maxim and Kurmanov Nurbol passed the 4th semester of training in the Humanities university of transport and right named after D. A. Kunayev, Institute of means of communication in Almaty. In 2014-2015 according to the program of internal academic mobility the students of EP 5B071200 – "Mechanical engineering" Bortnik Dmitry and Salnik Alexey the 4th semester were trained at the Innovative Euroasian university in Pavlodar. In 2014 according to the program of the academic mobility, EP 5B073200– "Standardization, certification and metrology" (on branches) Klimova Anastasia and Zhangushekov Serik (SM 221) the 3rd semester were trained in the Kazakh technical academy in Astana. In 2013 - 2014 academic year according to the program of the academic mobility EP 5B073200– "Standardization, certification and metrology " (on branches) Alimbayeva Asel, Dyak Oksana, Ismaylova Leyla and Milovanova Dinara the 4th semester were trained in the Kazakh technical academy. On the basis of the tripartite contract for training in the program of the academic mobility for EP 5B073200 – "Standardization, certification and metrology" (on branches) Zhanbyrshina Gulbakyt and Maliyeva Aliya the 3rd semester in KENEU were trained in the Kazakh technical academy. On the basis of the tripartite contract for training in the program of the academic mobility for EP 5B073200 – "Standardization, certification and metrology" (on branches) Saktaganova Meruert and Kayrulina Ayzada in the 4th semester were trained in the Kazakh technical academy.

When developing educational programs the opinion of students was considered. There were questioning of students according to the quality of pedagogical activity of the stuff and

concerning corruption.

Feedback was carried out through the blog of the rector, business hours of vice rectors for the directions and heads of divisions.

KENEU has necessary material resources for development of various creative abilities: the assembly hall with the modern sound equipment on 265 places, special rooms and concert suits for choreographic collective, a requisite for rehearsals and performances of the KVN teams, propaganda teams, drama school, for the organization of holidays and concerts. For providing out of educational pastime 13 sports sections work, according to the schedule weekly there take place occupations and rehearsals of vocal studio, choreographic collective "Vdokhnoveniye", studio of a breakdance, drama school (on the basis of the Russian and Kazakh dramatic theaters, the KVN teams on Kazakh and Russian. According to the program of work of OO "Everest" classes and tournaments of debat club are held.

Occupations in all creative associations and sports sections – free for students of the university.

For assistance in expansion of communication opportunities for the students practical participation during the organization and carrying out various out of educational activity is used widely: sports competitions, holidays, city and regional events, conferences.

Active participants of cultural actions of the university are students Zhaksalykov Zhadiger, Zhantasova Nargiz, Bondarenko Alexander (EP 5B080600 – "Agrarian equipment and technology"), Alimbayeva Asel, Aktanov Esengali, Zhangushekov Serik, Humps Vladimir, Black Valentin (EP 5B073200 – "Standardization, certification and metrology" (on branches)), Turebekov Temirlan, Esmkhanov Қуанышбай (EP 5B071200 – "Mechanical engineering"), Ivanova Victoria, Akimchenkova Natalya, Esmurzina Aygerim.

At the level employment process is realized. Managers of the letting-out departments on the basis of the general plan of work of department of the organization and planning on the basis of the list of graduates plans actions for their employment is reflected in the plan of work of department. Employment of graduates are presented in table 3.

**The table 3-Employment of Graduates on EP**

| Year  | Number of graduates | % of the employed graduates | Employed in the specialty |
|---|---------------------|-----------------------------|---------------------------|
| <b>EP 5B080600 – "Agrarian equipment and technology"</b>            |                     |                             |                           |
| 2012/2013   | 16                  | 94                          | 73                        |
| 2013/2014   | 9                   | 89                          | 63                        |
| 2014-2015   | 4                   | 75                          | 75                        |
| <b>EP 5B071200 – "Mechanical engineering"</b>                       |                     |                             |                           |
| 2012/2013   | 7                   | 73                          | 71                        |
| 2013/2014   | 26                  | 100                         | 78                        |
| 2014-2015   | 18                  | 81                          | 80                        |
| <b>EP 5B073200 – "Standardization, certification and metrology"</b> |                     |                             |                           |
| 2012/2013   | 40                  | 96                          | 61                        |
| 2013/2014   | 41                  | 98                          | 74                        |
| 2014-2015   | 29                  | 93                          | 81                        |
| <b>EP 5B080100 – «Agronomics»</b>                                   |                     |                             |                           |
| 2012/2013   | 30                  | 93                          | 82                        |
| 2013/2014   | 31                  | 81                          | 78                        |
| 2014-2015   | 14                  | 82                          | 90                        |

Also it is possible to refer active assistance to employment of graduates, implementation of monitoring of their professional activity and career development to a main objective. Monitoring of the actual employment of graduates is realized in June-August for obtaining data on preliminary employment of graduates at the time of obtaining the diploma. Following the results of data in the database of graduates at faculties are supplemented, data on quantity of working are formed, plans for training continuation are specified. The obtained information is used for preparation of reporting and analytical data according to the forecast of distribution of

graduates. For communication with graduates the bank of their e-mail addresses is formed. Information about the university graduates is annually posted on the website of the university. Analysis of employment showed that many graduates settle on the EP profile. Places of employment of graduates generally is in the leading manufacturing enterprises of the railway and motor transport, the logistic organizations and firms: LLP "Saryarkaavtoprom", ChPU LLP "Evrazkaspianstal", JSC "SSGPO", JSC "Agromashholding", LLP "Ural LTD", LLP "MTs TESS Kazrossert", JSC "National Committee on Qualification of Department on statistics and certification", LLP "Kostanay Scientific Research Institute", LLP "Karabalyksky SHOS", LLP "Agrotechmash". Contact with graduates is kept by means of negotiations, correspondence, meetings and e-mail, and also carrying out questioning of graduates of the current year and last years. Analysis of satisfaction of graduates with the employment is carried out on the basis of the questioning of graduates of last years.

**Strengths of EP are:**

- existence of the mechanism of monitoring of students' satisfaction of activity of the university in general and separate services;
- participation of students in collegial bodies of management of EP;
- training of students of EP 5B071200 – "Mechanical engineering" by request of LLP "SNABDI" was carried out. Training on the state grants in 2011-2012 – 18 students, 2012-2013 - 9 students, 2013-2014 -8 students, 2014-2015-7 students.

**Weaknesses of EP are:**

- absence of association of Graduates
- insufficient academic mobility of students;
- insufficient attraction of students to SRW.

**The commission recommends:**

- to carry out the work on creation of association of the University graduates;
- to strengthen the work on realization of internal and external academic mobility of students;
- to intensify participation of students to SRW.

**ECE notes that by 2 criteria of this standard the university has strong positions, on 8-satisfactory positions, and on 5 positions improvement is required.**

#### **4.5 Standard "Resources Available to Educational Programs"**

The commission made sure in available of the training promoting formation of professional competence; sufficiency of material and technical resources for maintenance of educational process and realization of mission, purposes and tasks in the university. The university has the modern level of material and technical resources, resources for providing high-quality educational services.

There are laboratories, equipment, library and information resources providing a high level of the organization of educational process in the university and in the faculties. Educational audiences and specialized laboratories meet the qualification, sanitary and hygienic requirements and requirements of fire safety. The material and social base which is in operational management of KInEU, is located in Kostanay, consists of 10 objects, total area of the territory constitutes 10464 sq.m.

The university has 2 educational and laboratory buildings, with a total area of 1377 sq.m. counting on one student of the given contingent the usable educational space constitutes 6,5 sq.m.

The infrastructure of university includes the hostel, sports base, library, a first-aid post and other educational and auxiliary rooms.

Sports base KInEU of M. Dulatov consists of set of various sports constructions of the closed and open type. At university there is 1 indoor gym equipped with the corresponding

sports equipment with a total area of 1087,5 sq.m.

Now there is one hostel, with a total area of 1821,5 sq.m on 150 beds functions. Also in the hostel there is a sports ground of open type the total area of 954,5 sq.m.

For the organization of student's food at university the youth cafe, with a total area of 275,6 m<sup>2</sup> and 100 seats functions.

Medical care of employees and trained is provided with a health center which is located in the building of KInEU's sport center and in city polyclinic No. 1.

For the organization of educational process for EP 5B080600 – "Agrarian equipment and technology", 5B073200 – "Standardization, certification and metrology" (on branches), 5B071200 – "Mechanical engineering", 5B080100 – "Agronomics" are offered educational cases A, B and Century. These cases have internal water supply and the sewerage; air conditionings in the building meet sanitary standards on heating, ventilation. Artificial illumination of audiences meets standard.

Cases A and B include educational audiences and laboratories, such as: "Descriptive geometry and engineering graphics", "Labor protection and health and safety", "Mathematics", "Mechanics of liquid and gas", "Theoretical bases of electrical equipment", "Chemistry", etc.

For training in disciplines of "Information scientist", "Machine graphics" 4 computer classes, of 164,1 m<sup>2</sup>s are used by the established software. Besides, in the case "A" the International scientific and educational center of the computer APTECH-KINEU technologies and laboratory of "Internet technologies" of distance learning is placed.

11 audiences, 7 laboratories are assigned to "Transport and Service" department. There are 22 personal computers, 6 printers and 2 multimedia complexes, an interactive multimedia board with the computer at the department.

For realization of EP 5B080600 – "The agrarian equipment and technology" 7 laboratories and 3 specialized audiences on the basis of the enterprises are used.

There are 24 educational audiences assigned to "Power and Mechanical Engineering" department: 3 educational offices, 3 offices for the faculty, 16 laboratories, 2 laboratories are in branches of department at the enterprises of Kostanay: KF JSC "Agromashholding", JSC KTEK, Boiler room No. 3. Also for training the computer class and the machine hall of Modelling of Technological Processes laboratory is used. There are 6 personal computers, 4 printers, 1 multimedia complex in audience No. 117B, an interactive multimedia board with the computer in audience No.118B at the department.

20 audiences, 5 laboratories, 1 specialized audience are assigned to "Standardization, Certification and Metrology" department (on branches). There are 8 personal computers, 4 printers and 3 multimedia complexes established in audiences 201A, 302B, 309 B.

For realization of EP 5B073200 – "Standardization, certification and metrology" (on branches) 26 educational audiences, 50 laboratories, and 7 lecture multimedia audiences are used.

On February 4, 2015 the Regional Innovative Center (RIC) is created. The purpose of activity of RITs is formation of effective system of production interaction, science and education. Since 2011 students of the 1st course of internal office at receipt are provided with personal laptops for use in the educational purposes.

In the educational and research purposes the modern software with application of the COMPASS program is used, and the settlement and design part can be executed by means of applied libraries some programs "KOMPAS", the "Winmachine", "AutodeskAutoCAD", "Inventor" and others.

The library stock of the university contains on 1.1.2015 – 383509 copies from which scientific literature -116356 copies (30%), educational –256433 copies (66,8%), art – 10720 copies (2,8%).

There are electronic versions of state standards of RK, the international standards, own library including normative documents (ST of RK, IUS-y, Catalogues, specialized magazines). Within the Memorandum with Committee on technical regulation and metrology the standard

fund is constantly actualized.

In total EMCD are placed in AIS "Platonus", individual access to which all students and the staff of the department have.

**Table 4 - Book Supply of the accredited EP**

| № | EP  | Language | Number of students | Book fund |                        |                                       |              |                  | Provision of educational literature | Book Supply |
|---|---|----------|--------------------|-----------|------------------------|---------------------------------------|--------------|------------------|-------------------------------------|-------------|
|   |   |          |                    | Total     | Educational literature | Educational and methodical literature | Science Fund | Own publications |                                     |             |
| 1 | 5B080600 "Agrarian equipment and technology"                          | Kaz      | 2                  | 523       | 415                    | 16                                    | 92           | -                | 207                                 | 261         |
|   |   | Rus.     | 30                 | 5211      | 3564                   | 599                                   | 1048         | 125              | 118                                 | 173         |
| 2 | 5B071200 – "Mechanical engineering"                                   | Kaz      | -                  | 463       | 394                    | 14                                    | 55           | 99               | -                                   | -           |
|   |   | Rus.     | 45                 | 6485      | 4173                   | 610                                   | 1702         | 1306             | 92,7%                               | 144         |
| 3 | 5B073200 "Standardization, certification and metrology" (on branches) | Kaz      | 2                  | 2601      | 1255                   | 170                                   | 1176         | 295              | -                                   | -           |
|   |   | Rus.     | 110                | 11901     | 6855                   | 2246                                  | 2800         | 2250             | 97,9%                               | 170         |
| 4 | 5B080100 "Agronomics"   | Kaz      | 6                  | 1649      | 887                    | 150                                   | 612          | 37               | 147,8                               | 274         |
|   |   | Rus.     | 78                 | 14018     | 7221                   | 1365                                  | 5432         | 58               | 92,5                                | 183,2       |

Students have an access to book and electronic fund of the scientific library equipped with traditional and electronic catalogs, bulletins of novelties Internet etc. The reading room, the subscription, the hall of the electronic resources connected to the Internet network functions. For the reporting period free access of students and teachers to national and foreign databases has been provided.

The university provides availability for students of a large number of the structured, organized information on readable disciplines – presentation materials, abstracts of lectures, obligatory and additional literature, practical tasks.

During the interview with graduates became clear that in the university all conditions for development of young scientists and students were created; programs of social support of students work.

In the university there is a mechanism of advance planning and development of laboratories. On the website of the university in the section "Library" references to electronic resources are located: republican interuniversity electronic library (RIEL); multidisciplinary electronic research Web of Knowledge platform (Thomson Reuters DB); resources of the Elsevier company: It gives the chance to students and to the staff of the university to get acquainted with results of scientific researches of the leading foreign scientists, to contact to them, to participate in the international scientific projects, to study the scientific works (monographs, articles) published in the leading rating magazines.

**Strengths of EP are:**

- availability of enough the structured, organized information on readable disciplines for students;
- free access to educational Internet resources, functioning of free Wi-Fi;
- for EP 5B071200 – "Mechanical engineering" specialized laboratories are created: details of cars and hoisting-and-transport mechanisms, diagnostics and tests of power stations, technological processes of machine-building production, the lathe of the CAK 501 35 gi with ChPU SIEMENS 828D model – analog of the machines used when processing hardware in a repair shop of the "Evraz Kaspian Stal" LLP enterprise

**Weaknesses of EP are:**

- insufficient quantity of reading rooms, language, scientific and methodical laboratories;
- insufficiently of educational and methodical literature for elective courses of the accredited EP.

**The commission recommends:**

- to continue equipment of material and technical resources on a system basis by the modern equipment for EP 5B080600 "Agrarian equipment and technology", 5B073200 "Standardization, certification and metrology" (on branches), 5B080100 "Agronomics";
- to intensify annual release by the faculty of scientific and educational and methodical literature for providing elective courses of EP.

**ECE notes that by 7 criteria of this standard the university has strong positions, by 20 criteria – satisfactory positions, 5 criteria need improvement.**

**4.6 Standards in a section of separate specialties. Natural and technical science****Natural and technical science**

For the purpose of acquaintance with the professional environment and topical issues in the field of specialization, and also for acquisition of skills on the basis of theoretical preparation the following events are held for students:

- for the students of EP 5B071200 – "Mechanical engineering" training in the "Kompas-Grafik" program for the "Three-dimensional Modelling of Details and Assembly Units in the COMPASS System — 3D" direction was provided (Kostanay, 2014);
- for the students of EP 5B071200 – "Mechanical engineering" were involved in carrying out the actions devoted to week of Power and Mechanical Engineering department;
- in April, 2015, the students of EP 5B071200 – "Mechanical engineering" were trained in the direction "Technology of mechanical engineering. Improvement of technological processes of work on machines with ChPU" (Kostanay, 2015);
- students of groups 1 SM-321, 1 SM-221 were attracted for participation in the seminar held by GU "Department of Committee of Technical Regulation and Metrology of the Ministry of Investments and Development of RK in the Kostanay Region" (17-18.10.2013g.);
- the students of EP 5B073200-"Standardization, certification and metrology" (on branches) were attracted for participation in the actions devoted to the International day of the standard, Day of the metrologist, Day of quality, which are carried out by KF RGP "KAZINST".
- students of groups 1ag411, 1ag321 and 1ag312 were attracted for participation in the seminar held by the Center of distribution of knowledge "Kostanay" at LLP "Kostanay NIISH" (5.27.2015);
- students of group SSM-10 were attracted for participation in the action devoted to Day of the field, which is carried out the Pilot farm "Over the river" (6.1.2015).

Annually for the students of EP 5B080600 – "Agrarian equipment and technology", 5B071200 – "Mechanical engineering", 5B073200-"Standardization, certification and metrology" (on branches), 5B080100 – "Agronomics" departments conduct tours to the enterprises of Kostanay:

– for the students of EP 5B071200 – "Mechanical engineering" excursions to the enterprises of the profile direction of LLP "Evrazkaspianstal", KF JSC "Agromashholding", LLP "Ivolga-Holding" taken place. These events are held for the purpose of acquaintance with production of plant, the production equipment and technological processes of production of cars and agricultural machinery;

– for the students of EP 5B080600 – "Agrarian equipment and technology" tours are conducted for students of full-time courses at the typical large enterprises of specialization: KF

JSC "Agromashholding" <http://amkh.kaz> and "Agrotechmash" LLP <http://www.agrotehmash.com/#>. The students get acquainted with production of the enterprise and operation of the capital and service equipment, see work of personnel of the enterprise, gain an impression about the future profession, places of passing the practicing and the future work.

– for the students of EP 5B073200-"Standardization, certification and metrology" (on branches), are carried out by department excursion to the enterprises Kostanay (KF JSC "NaTsEKS", "Agroekspert" LLP, "Technical committee on standardization 44", "Technologist", Interstate technical committee 534 "Safety of food staples and agricultural production on the basis of the principles of HACCP", KF RGP "KAZINST", "Karasu-Et" LLP, KH "Birch Agro");

– for the students of EP 5B080100 – "Agronomics" tours to "Ivolga" LLP, JSC-"biday Agro" LLP, "Zelenstroy" LLP are conducted.

The former graduates of department (nowadays the staff of the enterprises) who show possibilities of production participate in carrying out excursions and impart the saved-up experience: Garaykhanov Salavat – the process engineer of "Saryarkaavtoprom" LLP, Clem Alexander is a design engineer of the 2nd category, KF JSC "Agromashholding", Siyatsky Nikolay is a process engineer of the 2nd category, "Sary Arkaavtoprom" LLP, Fakhretdinov Ayrat – the acting foreman of the shop of mechanical assembly of "Agrotechmash" LLP, Mordanov Ildus is a design engineer of the 3rd category KF JSC "Agromashholding", Martynov Anatoly – the operator - the programmer of machines with ChPU "Evraz Kaspianstal" LLP.

Within the accredited EP the teachers having production length of service carry out educational activity: EP 5B073200-"Standardization, certification and metrology" (on branches) and 5B080100 – "Agronomics"

– Tympiyev M. S. – length of service on production makes 32 years. Works as the senior teacher of department since 2013.

– Guo Ting-Shin A.N. – production experience of 7 years. Works as the senior teacher of "Standardization and Food Technologies" department.

– Gaidai I. I. – production length of service 22 years. "Standardization and food technologies" works in KENEU since 2005 as the associate professor.

– Atembekova Zh.E. – length of service on production makes 3 years. Works as the teacher of SPT department since 2014.

EP 5B071200 "Mechanical engineering"

– Klassen Yu.V. - length of service on production makes 18 years. Works as the acting associate professor since 2002.

– Vodyasov E.V., KF JSC "Agromashholding" which was earlier working 2009-2011 in "Dormash" LLP as the design engineer 3 categories and in 2011-2013 as the design engineer 2 categories, length of service on production of 5 years. Works as the teacher of department since 2013.

5B080600-"Agrarian equipment and technology"

– Ivanchenko P.G. – length of service on production of 25 years. "Transport and service" since 2005 works as the associate professor.

According to requirements of GOSO the content of disciplines of EP 5B080600 – "Agrarian equipment and technology", 5B071200 – "Mechanical engineering", 5B080100 – "Agronomics", 5B073200 – "Standardization, certification and metrology" (on branches), are based on the knowledge, skills received at the previous step of education and are directed to knowledge acquisition, as in the field of fundamental natural sciences, and scientific and professional skills and competences.

This standard doesn't have Recommendation.

**ECE notes that by 2 criteria of this standard the university has a strong position, by 1 criterion - a satisfactory position.**

## RECOMMENDATIONS TO HIGHER EDUCATION INSTITUTION

Recommendations about specialized accreditation of educational programs 5B080600 "Agrarian equipment and technology", 5B071200 "Mechanical engineering", 5B073200 "Standardization, certification and metrology" (on branches), 5B080100 "Agronomics":

- to improve activities for involvement of subjects of educational process to design the maintenance of EP;
- to intensify cooperation with the domestic and foreign higher education institutions realizing similar educational programs;
- to develop the mechanism of an assessment of risks at realization of educational programs;
- to speed up the work on cooperation with the leading higher education institutions of the Republic of Kazakhstan and foreign higher education institutions within carrying out joint scientific researches and harmonization of educational programs;
- to systematize and intensify the use in educational process of innovative technologies, to provide development of own educational technologies;
- to carry out the work on providing in the university the continuity of maintenance of the accredited EP (opening 2 levels of training - Magistracies);
- to speed up the work on development of the academic mobility of the staff;
- to fulfill mechanisms of stimulation of professional and personal development of the staff and employees;
- to ensure purposeful functioning on the publication of scientific articles of the staff in magazines with an impact-factor in the Thompson Reuters and Scopus databases;
- to systematize the work on professional development of the staff on production and specialization;
- to carry out the work on creation of association of the university graduates;
- to strengthen the work on realization of internal and external academic mobility of students;
- to intensify participation trained in SRW;
- to continue equipment of material and technical resources by the modern equipment for EP 5B080600 "Agrarian equipment and technology", 5B073200 "Standardization, certification and metrology" (on branches), 5B080100 "Agronomics" on a system basis;
- to intensify annual release by the faculty of scientific, educational and methodical literature for providing elective courses of EP.

## RECOMMENDATION TO ACCREDITATION COUNCIL

Members of the external commission of experts have come to unanimous opinion that educational programs 5B073200 - "Standardization, metrology and certification" (on branches), 5B080100 - "Agronomics", 5B080600 – the "Agrarian equipment and technology", the M. Dulatov Kostanay Engineering and Economic University can be accredited for a period of 3 years, 5B071200 - "Mechanical engineering" - for a period of 5 years.

| №                                | Criteria for the assessment   | Position of educational institution |              |                         |                |
|----------------------------------|---|-------------------------------------|--------------|-------------------------|----------------|
|                                  |   | Strong                              | Satisfactory | Improvement is supposed | Unsatisfactory |
| <b>Standard 1. EP MANAGEMENT</b> |   |                                     |              |                         |                |
| 1                                | The University demonstrates the development plan of EP on the basis of the analysis of EP functioning, the real position of the University and their focus on meeting the needs of the state, stakeholders and students.                          |                                     | +            |                         |                |
| 2                                | The university must demonstrate the individuality and uniqueness of the development plan of EP, their consistency with national development priorities and development strategy of the University.  |                                     | +            |                         |                |
| 3                                | The University must ensure the adequacy of the development plan of EP and available resources (including financial, information, personnel, material and technical basis), market needs and the educational policy of the Republic of Kazakhstan. |                                     | +            |                         |                |
| 4                                | The University should involve representatives of stakeholder groups, including students, faculty and employers in the formation of the development plan of EP.  |                                     | +            |                         |                |
| 5                                | The University demonstrates the transparency of formation processes of the development plan of EP. The institution provides awareness among stakeholders about the content of the development plan of EP and the process of its formation.        |                                     | +            |                         |                |
| 6                                | The institution must determine the mechanisms of formation and regular revision of the development plan of EP and the monitoring of its implementation.   |                                     | +            |                         |                |

|    |   |   |   |   |  |
|----|---|---|---|---|--|
| 7  | The university carries out the processes of strategic, tactical and operational planning of EP and allocation of resources in accordance with the development plan of the EP  |   | + |   |  |
| 8  | The University systematically collects, accumulates and analyses information on the implementation of EP, and carries out self-assessment in all areas, through the development and implementation of measure processes and analysis of success measurement of strategy implementation through the development of EP indicators such as "effectiveness" and "efficiency", develops and revises development plan of EP |   | + |   |  |
| 9  | Development plans of EP are openly discussed with representatives of all stakeholders, on the basis of proposals and amendments of which, the authorized collegial body of the University makes changes in the project  |   | + |   |  |
| 10 | An important factor is ensuring the representativeness of representatives of stakeholder groups   |   | + |   |  |
| 11 | The university must demonstrate compliance of the priorities of scientific research implemented by teaching staff of EP to the national policy in the sphere of education, science and innovation development   | + |   |   |  |
| 12 | The University demonstrates the implementation level of principles of sustainability, effectiveness, efficiency, prioritization, transparency, accountability, delegation of authority, separation and independence of the system of financing EP   |   | + |   |  |
|    | EP management should include:   |   |   |   |  |
| 13 | management through processes;   |   | + |   |  |
| 14 | mechanisms of planning, development and continuous improvement;   |   | + |   |  |
| 15 | risk assessment and identification of ways to reduce these risks;   |   |   | + |  |
| 16 | monitoring, including the establishment of reporting processes, allowing to determine the dynamics in the activity and implementation of plans;   |   | + |   |  |
| 17 | analysis of the identified discrepancies and implementation of corrective and preventive actions;   |   | + |   |  |
| 18 | analysis of the efficiency of changes;  |   | + |   |  |
| 19 | evaluation of results and efficiency of activity of divisions and their interaction;  |   | + |   |  |
| 20 | All major business processes, regulating the implementation of EP should be documented.   |   | + |   |  |

|    |  |   |   |   |  |
|----|--|---|---|---|--|
| 21 | The University must determine its own requirements for various forms (full-time, evening, correspondence), levels (BA – MA – / PhD) and technology (including remote).   |   | + |   |  |
| 22 | The institution should clearly identify who is responsible for business processes, clear allocation of duties of staff, separation of functions of the collegial bodies involved in the implementation of EP.  |   | + |   |  |
| 23 | The institution must demonstrate the procedure for the approval, periodic review and monitoring of the EP and documents regulating the process.  |   | + |   |  |
| 24 | The institution must ensure the availability and effective functioning of information and feedback oriented on students, employees and interested people.  |   | + |   |  |
| 25 | The institution must demonstrate a mechanism of communication with students, employees and other stakeholders in the activities of University, including the existence of deadlines for complaints, appeals, requests.   |   | + |   |  |
| 26 | The University must establish the frequency, form and methods of evaluation of EP.   |   | + |   |  |
| 27 | An important factor is the cooperation with other universities that implement the same EP and exchange of experience.  |   |   | + |  |
| 28 | Manual of EP should take decisions justified on the basis of facts.  |   | + |   |  |
| 29 | EP managers must demonstrate successful operation of the quality assurance system of EP, including its design, management and monitoring, improvement, making decisions based on facts.  |   | + |   |  |
| 30 | An important factor is the availability of information systems and databases, the use of the Internet to inform, the presence of portal and/ or website that contains information describing the planning processes and the results of the evaluation of its effectiveness for students, staff and the public. |   | + |   |  |
| 31 | Administration of EP should provide evidence of transparency of the control system of the EP.  |   | + |   |  |
| 32 | An important factor is the participation of all interested representatives (employers, faculty, students) in the composition of EP governing boards.   | + |   |   |  |

|    |  |          |           |          |          |
|----|--|----------|-----------|----------|----------|
| 33 | The institution must demonstrate the availability and evidence of intensive use of collection and analysis of statistics on the contingent of students and graduates, available resources, staff, research and international activities, and other areas.in the processes of EP managing system  |          | +         |          |          |
| 34 | An important factor is the management of EP on the basis of the results of studies of changes in the internal and external environment.  |          | +         |          |          |
| 35 | Administration of the EP should provide a measurement of the satisfaction degree of faculty needs, staff and students and to demonstrate the evidence of deficiencies detected in the framework of the measurement process.  |          | +         |          |          |
| 36 | EP managers must demonstrate evidence of openness and accessibility for students, faculty, parents (the official reception hours on personal questions, e-mail communication, etc.).   | +        |           |          |          |
| 37 | The institution must demonstrate the availability of a communication channel by which any interested person may make innovative suggestions to improve the activities of EP the management of the university and the governing bodies. The institution must demonstrate examples of analysis of these proposals and implement such proposals in the university life. |          | +         |          |          |
|    | <b>Total</b>   | <b>3</b> | <b>32</b> | <b>2</b> | <b>0</b> |
|    | <b>Standard 2. The specifics of EP</b>   |          |           |          |          |
|    | <b>Criteria for the assessment</b>   |          |           |          |          |
| 38 | The institution must demonstrate the availability of the developed models of EP graduates, including knowledge, abilities, skills, competencies, personal qualities.   |          | +         |          |          |
| 39 | The University must provide the evidence of participation of faculty and employers in the development and management of EP, to ensure their quality.   |          | +         |          |          |
| 40 | The University must prove that the employers involved in the design and implementation of EP are typical representatives of employers (representativeness) and to express the interests and views common to most employers.  |          | +         |          |          |
| 41 | The institution must determine the content, scope, logic of construction of individual educational trajectories of students, the influence of the disciplines and professional practice on the formation of professional competence of graduates.  |          | +         |          |          |

|    |   |  |   |   |  |
|----|---|--|---|---|--|
| 42 | EP managers must demonstrate the continuity of the content of EP at different levels (bachelor – master - doctorate - additional education), including the logic of the relationship of academic disciplines, consistency and continuity.   |  |   | + |  |
| 43 | EP managers must demonstrate the impact of disciplines on formation of students professional competence, skills and blocks of knowledge.  |  | + |   |  |
| 44 | EP managers must demonstrate a clear definition of a logical sequence of courses and disciplines reflected in the working curriculum of basic requirements for learning outcomes.   |  | + |   |  |
| 45 | EP managers must demonstrate the presence in the content of training courses the professional context.  |  |   | + |  |
| 46 | EP managers must demonstrate the existence of an effective balance between theoretical and practice-oriented disciplines.   |  |   | + |  |
| 47 | Administration of EP should demonstrate the logic and reasons behind the drafting of curricula and training programmes, in particular the reasons for choosing one or another discipline in the curriculum list, the reasons for assigning the status of post - or prerequisites, matching names and content of the disciplines relevant to the areas of development the study of science/society, etc. |  | + |   |  |
| 48 | Administration of EP should ensure the content of training courses the level of study (bachelor, master, doctorate) and the proposed learning outcomes.   |  |   | + |  |
| 49 | The list and content of the disciplines should be available to students. Discipline should contain results of the most relevant research projects and other information of a taught discipline. Discipline should deal exhaustively with all the issues on the agenda of world science in the field of teaching.  |  | + |   |  |
| 50 | An important factor is the harmonization of the contents of EP with EP of leading foreign and Kazakhstani universities.   |  |   | + |  |
| 51 | In the structure of EP should provide various activities that will contribute to the development of professional competences of students based on their personal characteristics.   |  |   | + |  |
| 52 | An important factor is the upgradable EP with the interests of employers in the development of EP of disciplines aimed at development of professional skills.   |  | + |   |  |
| 53 | Management of EP must provide an annual revision of the content of curricula and training programs, taking into account changes in the market and the wishes of students and teachers involved in decisions of employers, students, teachers and interested persons.  |  | + |   |  |
|    | <b>Evaluation criteria: Individualisation of EP</b>   |  |   |   |  |

|   |   |   |   |   |  |
|---|---|---|---|---|--|
| 54  | Administration should provide equal opportunities to students, including regardless of language of instruction on the formation of individual EP, directed on formation of professional competence.   |   | + |   |  |
| 55  | Administration should ensure the existence and effective functioning of the system of individual assistance and counselling students on the educational process.  | + |   |   |  |
| 56  | Administration creates conditions for the effective promotion of student on an individual educational trajectory, including the consultation of advisors.   |   | + |   |  |
| 57  | Administration should demonstrate the use of benefits, individual characteristics, needs and cultural experiences of students in the implementation of EP.  |   | + |   |  |
| 58  | Administration should demonstrate individual academic support to students in implementation of EP   |   | + |   |  |
| 59  | Administration should prove the existence of a system of monitoring student's progress on educational trajectories and achievements of students.  |   | + |   |  |
| <b>Assessment criteria: Assessment of academic progress</b> |   |   |   |   |  |
| 60  | Administration of EP should ensure the existence and effective functioning of objective, accurate and comprehensive assessment of knowledge, skills, and qualities acquired by students in the process of training on discipline, as well as collegiate appeal mechanism and appeals professional evaluation. |   | + |   |  |
| 61  | Administration should provide a fair evaluation of knowledge and the degree of formation of professional competence of students, the transparency and adequacy of tools and mechanisms for their evaluation.  |   | + |   |  |
| 62  | Administration should ensure that procedures for assessing the level of students' knowledge of the planned learning outcomes and objectives of the programme.   |   | + |   |  |
| 63  | Administration of EP should diagnose the students' knowledge at the beginning of the learning course and study of academic disciplines.   |   | + |   |  |
| 64  | Processes and criteria of evaluation of knowledge should be transparent.  | + |   |   |  |
| <b>Evaluation criteria: Methods of teaching</b>             |   |   |   |   |  |
| 65  | Administration should ensure systematic development, implementation and effectiveness of active learning methods and innovative teaching methods.   |   |   | + |  |
| 66  | With the implementation of EP shall be monitored independent work of the student and established mechanisms for an adequate assessment of its results.  |   | + |   |  |

|    |   |          |           |          |          |
|----|---|----------|-----------|----------|----------|
| 67 | An important factor is the presence of a joint EP with foreign universities and attracting Kazakh research institutions to the educational process.   |          |           | +        |          |
| 68 | Administration of EP must provide students with practice in the specialty and to monitor the satisfaction of students and managers of places for practices and employers.   |          | +         |          |          |
| 69 | Administration of EP should ensure the implementation of research results into the educational process.   |          | +         |          |          |
| 70 | Administration of EP should prove the research and the availability of own developments in the field of methodology of teaching of subjects of the EP.  |          |           | +        |          |
|    | <b>Total</b>  | <b>2</b> | <b>22</b> | <b>9</b> | <b>0</b> |
|    | <b>Standard 3. ACADEMIC STAFF AND TEACHING EFFECTIVENESS</b>  |          |           |          |          |
| 71 | To implement EP the administration of the university should involve the practitioners and determine the proportion of subjects taught by them. EP administration must demonstrate the logic of their involvement in the lessons.  |          | +         |          |          |
| 72 | EP managers must motivate faculty, continuously apply innovation and it in EP.  |          | +         |          |          |
| 73 | The administration should ensure compliance with faculty qualification requirements, the level and the specifics of EP.   |          | +         |          |          |
| 74 | EP managers must demonstrate compliance personnel potential of TS strategy and the specifics of EP.   |          | +         |          |          |
| 75 | EP managers must demonstrate recruitment on the basis of the needs analysis EP a system of recruiting.  |          | +         |          |          |
| 76 | The institution must demonstrate the availability of information about TS to the public, including TS directories, posting questionnaires on the website of the University.   | +        |           |          |          |
| 77 | EP managers must demonstrate compliance with the principle of availability of heads and transparent personnel procedures.   |          | +         |          |          |
| 78 | Administration of EP should monitor the activities of the faculty, conduct a systematic assessment of the competence of teachers and a comprehensive assessment of teaching quality.  |          | +         |          |          |
| 79 | The workload of a teacher should include educational, methodical, scientific work (including preparation of projects and applications), organizational and methodological (including participation and organization of various activities), improvement of professional competence (professional development, including personal development and the study of literature), activity in professional environment (for example, participation in professional associations and consulting). |          | +         |          |          |

|    |   |          |           |          |          |
|----|---|----------|-----------|----------|----------|
| 80 | EP managers must demonstrate evidence of implementation by teachers of all kinds of scheduled load.   | +        |           |          |          |
| 81 | Administration of EP should ensure the completeness and adequacy of individual planning work of the faculty in all activities that monitor the impact and effectiveness of individual plans.  | +        |           |          |          |
| 82 | EP managers must demonstrate compliance with training, professional and personal development goals of EP to TS .  |          |           | +        |          |
| 83 | The administration should provide targeted actions for the development of young teachers.   |          | +         |          |          |
| 84 | EP managers must demonstrate mechanisms to encourage professional and personal development of faculty and staff.  |          | +         |          |          |
| 85 | Administration of EP must be able to monitor satisfaction of faculty members.   |          | +         |          |          |
| 86 | EP managers must demonstrate the involvement of teachers in practical activities in the field of specialization on a regular basis.   |          | +         |          |          |
| 87 | Administration of EP should confirm the involvement of professionals with experience in the relevant industry sector, to the implementation of EP.  |          | +         |          |          |
| 88 | Administration must demonstrate faculty competence, the use of innovative methods and forms of education.   |          |           | +        |          |
| 89 | An important factor is the development of academic mobility, attracting the best foreign and Kazakhstani lecturers, joint research in the implementation of EP.   |          |           | +        |          |
| 90 | An important factor is the involvement of famous scientists, public and political figures, and the honoured figures.  |          | +         |          |          |
| 91 | An important factor is the involvement of teachers in society (the role of TS in education, in science, in the region, creating cultural environment, participation in exhibitions, creative competitions, charity programs, etc.). | +        |           |          |          |
|    | <b>Total</b>  | <b>5</b> | <b>13</b> | <b>3</b> | <b>0</b> |
|    | <b>Standard 4. STUDENTS</b>   |          |           |          |          |
| 92 | EP administration must demonstrate the policy of forming the contingent of the EP and the transparency of its procedures.   |          | +         |          |          |
| 93 | Administration of EP should ensure the representation of students in the collegial governing bodies EP.   | +        |           |          |          |
| 94 | The EP administration should demonstrate awareness of the key roles (professional, social) of students based on learning outcomes.  |          | +         |          |          |
| 95 | An important factor is the possibility of professional certification of students in the area of specialisation in the learning process.   |          |           | +        |          |
| 96 | An important factor is attracting students to research work.  |          |           | +        |          |

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|-----|--|----------|----------|----------|----------|
| 97  | An important factor is the possibility of external and internal mobility for students.   |          |          | +        |          |
| 98  | An important factor is the availability of support programs for gifted students.   |          | +        |          |          |
| 99  | Administration of EP should make maximum efforts to ensure employment of graduates and the maintenance of communication with alumni and create a community of graduates in individual programs EP.   |          | +        |          |          |
| 100 | An important factor is the monitoring of employment and professional activity of graduates.  |          | +        |          |          |
| 101 | The EP should actively guide to encourage students to educate themselves outside of the main program (extracurricular activities).   |          | +        |          |          |
| 102 | The EP administration should provide an opportunity to students for exchange and expression – for example, through the Internet forum of student organizations   | +        |          |          |          |
| 103 | The EP administration should provide a mechanism for the monitoring of trainees ' satisfaction the activities of the University as a whole and services in particular  |          | +        |          |          |
| 104 | EP managers must demonstrate the functioning of the system feedback, which includes online reporting of results estimation of students' knowledge.   |          | +        |          |          |
| 105 | An important factor is the possibility of continuing education in EP of postgraduate and further education.  |          |          | +        |          |
| 106 | An important factor is the academic mobility of students and teaching staff (the opportunity to study for a certain period of time in other local and foreign universities, academic exchanges of teaching staff) and a mechanism for the recognition of the results of academic mobility of students. |          |          | +        |          |
|     | <b>Total</b>   | <b>2</b> | <b>8</b> | <b>5</b> | <b>0</b> |
|     | <b>Standard 5. RESOURCES AVAILABLE FOR EP</b>  |          |          |          |          |
| 107 | The administration should provide access for students to the maximum possible number of structured, organized information on readable disciplines - presentation materials, lecture notes, compulsory and additional literature, practical tasks, etc.   |          | +        |          |          |
| 108 | Training equipment and software tools used to develop EP must be same as used in the relevant industries and meet the requirements of safety in the operation.   | +        |          |          |          |

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|-----|--|---|---|---|--|
| 109 | The institution must demonstrate the effectiveness of regular analysis of the adequacy and modernity, the available EP resources – classrooms, laboratories, computer hardware and software, financial resources, access to international databases of scientific research results, the system of professional and employment practices, textbooks and materials, etc. |   | + |   |  |
| 110 | The University creates a learning environment that promotes the development of professional competence and taking into account the individual needs and abilities of students.   |   |   | + |  |
| 111 | The University must create conditions for the development of research teams, research laboratories, scientific schools and workshops, attracting students to scientific-research activity; ensuring the participation of teachers and students in scientific conferences and competitions; recruiting leading scholars and practitioners.                              |   | + |   |  |
| 112 | The University must create conditions for the development of scientific potential of young scientists and students.  |   |   | + |  |
| 113 | The institution must demonstrate compliance infrastructure used in EP, its specificity. Audiences, offices, laboratories, communication and computer equipment, and other facilities must meet high requirements.  | + |   |   |  |
| 114 | The University should assess the dynamics of development of material and technical resources and information support of EP, the effectiveness of using assessment results to adjust planning and budget allocation.  |   | + |   |  |
|     | The University should provide a learning environment for each EP, which includes:  |   |   |   |  |
| 115 | technological support for students and teachers in accordance with the programs (e.g., online learning, simulations in class) and intelligent queries (databases, data analysis);  |   | + |   |  |
| 116 | academic accessibility, that means students have access to personalized interactive resources (available also outside the classroom), as well as training materials and jobs, also provides the possibility of trial self-assessment of students ' knowledge through a remote access portal (site) of the University;  |   | + |   |  |
| 117 | academic counselling – the presence of personalized interactive resources that help students to plan and execute EP;   |   | + |   |  |

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|-----|--|---|---|---|--|
| 118 | professional orientation - students can access personalized online resources that provide assistance in the selection and achievement of career paths;   |   | + |   |  |
| 119 | the required number of classrooms equipped with modern technical means of teaching: educational and scientific laboratories, modern educational and training grounds, industrial parks, equipped with modern equipment relevant to on-going EP, sanitary-epidemiological norms and requirements; | + |   |   |  |
| 120 | the required number of computer classes, reading rooms, multimedia language laboratory and scientific-methodical offices, the number of seats in them;   |   |   | + |  |
| 121 | the book Fund, including the Fund of educational, methodical and scientific literature in General education, basic courses and majors in print and electronic media, periodicals in the context of language learning;  |   | + |   |  |
| 122 | scientific databases, electronic journals, and their availability;   |   | + |   |  |
| 123 | the availability of electronic versions of published journals;   | + |   |   |  |
| 124 | examination of the results of research, final papers and theses for plagiarism;  |   | + |   |  |
| 125 | free access to educational Internet resources, a free Wi-Fi in all areas of the University.  | + |   |   |  |
| 126 | Administration of EP should ensure the availability and accessibility of academic support for students, including providing students the reference and learning materials necessary for the development of EP (a reference book, academic calendar, leadership, etc.).                           |   | + |   |  |
| 127 | Training materials, software, textbooks and additional resources and equipment should be available for all students.   |   | + |   |  |
| 128 | An important factor is the support of EP with information and communication technologies.  |   | + |   |  |
| 129 | The institution must demonstrate the availability of programs for the development of laboratories that implement EP.   |   | + |   |  |
| 130 | The administration should define the degree of implementation of information technologies in the educational process of the EP to monitor the use of TS and development of innovative learning technologies, including through the use of ICT;   |   |   | + |  |
|     | The EP manual should demonstrate reflection on the web information resource that characterize the EP, the efficiency of its use to improve EP having the following characteristics:  |   |   |   |  |
| 131 | the availability of personal pages of the faculty portal of the University;  | + |   |   |  |

|     |   |          |           |          |          |
|-----|---|----------|-----------|----------|----------|
| 132 | the availability of adequate and objective information about TS on the portal (the website);  | +        |           |          |          |
| 133 | transparency of information complaints, including placement of virtual complaints book for consumers on the portal (the website);   |          | +         |          |          |
| 134 | placement on the portal (the website) full of objective information about the activities and the specifics of EP;   |          | +         |          |          |
| 135 | placement on the portal (website) external publications (citations, links) about the implementation of EP;  |          | +         |          |          |
| 136 | the use of information networks to sensitize the public and stakeholders.   |          | +         |          |          |
| 137 | An important factor is the copyrights when posting teaching software in open access;  |          | +         |          |          |
| 138 | An important factor is the creation of conditions for development and use of information and communication technologies by teaching staff and learners in the educational process and activities of the University.   |          |           | +        |          |
|     | <b>Total</b>  | <b>7</b> | <b>20</b> | <b>5</b> | <b>0</b> |
|     | <b>Standard 6. Standard from of certain specialties</b>   |          |           |          |          |
|     | <b>Естественные и технические науки</b>   |          |           |          |          |
|     | EP in areas of "Natural science", "Technical Sciences and technologies", such as "Mathematics", "Physics", "Information system", etc., must meet the following requirements:  |          |           |          |          |
| 139 | to familiarize students with a professional environment and relevant issues in the field of specialization, as well as for the acquisition of skills based on theoretical training program of education should include disciplines and activities, aimed at obtaining practical experience and skills in General and majors in particular, including:<br>- visits to enterprises in the area of specialization (plants, workshops, research institutes, laboratories, etc.)<br>- conducting individual classes or entire courses on the enterprise specialization,<br>- conducting workshops to solve practical problems relevant to enterprises in the field of specialization, etc. | +        |           |          |          |
| 140 | Academic faculty involved in the program of education should include at least one full-time teacher with a long experience full-time employee in enterprises in the area of specialization education programme.   | +        |           |          |          |

|     |   |           |           |           |          |
|-----|---|-----------|-----------|-----------|----------|
| 141 | The content of all disciplines EP should to some extent be based and include elements of fundamental topics of Natural Sciences, Mathematics, Chemistry, Physics. |           | +         |           |          |
|     | <b>Total</b>  | <b>2</b>  | <b>1</b>  | <b>0</b>  | <b>0</b> |
|     | <b>Total in general</b>   | <b>21</b> | <b>96</b> | <b>24</b> | <b>0</b> |

INDEPENDENT AGENCY