



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR
ACCREDITATION AND RATING

REPORT

**on the results of the external expert evaluation committee work
education programs 6B07304 - Highway Design and Construction,
7M07304 - Highway Engineering
NPJSC D. Serikbayev East Kazakhstan Technical University
for compliance with the requirements
of initial specialised accreditation standards (Ex-Ante)**

from 6 to 8 October, 2020

Ust-Kamenogorsk

October 6, 2020

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
External Expert Commission

Addressed to
To the Accreditation
Council of IAAR



АККРЕДИТЕУ ЖӘНЕ РЕЙТИНГТІН
ТӘУЕЛСІЗ АГЕНТТІГІ
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(I) LIST OF DEFINITIONS AND ACRONYMS

BD – Basic Disciplines
BC– Basic Curriculum
EKTU – D.Serikbayev East Kazakhstan technical university, Non-Profit Joint-Stock Company, MES RK
IQM – Internal Quality Monitoring
SCES- State Compulsory Educational Standard
DP – Documented Procedure
DET- Distance Education Technologies
UNT- Unified National Testing
EKTU I – EKTU Instruction
IC – Individual Curriculum
IDAT – Institute for Development and Advanced Training
CTT – Credit Technology of Education
CED – Catalog of Elective Disciplines
MES RK – Ministry of Education and Science of the Republic of Kazakhstan
MEP – Modular Education Program
MC –Modular Curriculum
RW – Research Work
RW&IA - Research Work and Innovation Activities
SRW – Students’ Research Work
GES – General Education Subjects
EP – Education Program
EKTU R – EKTU Regulations
MD – Major Disciplines
PC– Personal Computers
F– Faculty
RK – the Republic of Kazakhstan
WC – Working Curriculum
QMS – Quality Management System
ISW – Student Autonomous Work
ISWGT– Student Autonomous work with a teacher
MC – Modular Curriculum
TSP – Teaching Support Personnel
EMCDD – Educational and Methodical Complex Discipline
EMUC – Educational and Methodological University Council
EMW – Educational and WMethodical Work
e-LTM – e- Learning Training Materials

(II) INTRODUCTION

From 6 to 8 October 2020, in accordance with Order of the Independent Agency for Accreditation and Rating, No. 75-20-OD dated 14.09.202, an external expert commission (EEC) conducted an online assessment of compliance of educational programs 6B07304 -Highway Design and Construction, 7M07304 - Highway Engineering in Non-Profit Joint Stock Company D. Serikbayev East Kazakhstan Technical University with the standards of primary specialized accreditation (Ex-ante) (dated from February 24, 2017, No. 10-17-OD, 1st edition).

The EEC report contains an assessment of the submitted educational programs to the NAAR criteria, EEC recommendations for further improvement of educational programs and parameters of the profile of educational programs.

External expert comission membership:

Chairman– Baydaulet Amantayevich Urmashev, Candidate of Physical and Mathematical Sciences, Associate Professor, Dean of the Faculty of Information Technologies, Al-Farabi Kazakh National University(Almaty, Republic of Kazakhstan).

IAAR foreign expert – Mitalip Muratovich Tayirov , Doctor of Physical and Mathematical Sciences, Professor, Batken State University (Kyzyl-Kiya, Kyrgyz Republic).

IAAR foreign expert – Tatyana Aleksandrovna Guzeva, Candidate of Technical Sciences, Associate Professor, Head of the Department of Educational Standards and Programs, the Federal State Budgetary Educational Institution of Higher Education, N.E.Bauman Moscow State Technical University(Moscow, Russian Federation).

IAAR expert – Shynar Zhenisbekovna Musiraliyeva , Candidate of Technical Sciences, Associate Professor, Head of the Department of Information Systems, Al-Farabi Kazakh National University (Almaty, Republic of Kazakhstan).

IAAR expert – Serik Karataevich Zhumazhanov , Candidate of Technical Sciences, Lecturer of the Department of Operation of Electrical Equipment, S. Seifullin Kazakh Agrotechnical University(Nur-Sultan, Republic of Kazakhstan).

Expert – Maksat Bekbusynovich Yermanov, senior lecturer, K. Zhubanova Aktobe Regional State University(Aktobe, Republic of Kazakhstan).

IAAR expert – Rufina Rinatovna Mukhamedzhanova, Director of the Department for Academic Affairs, Almaty University of Energy and Communications (Almaty, Republic of Kazakhstan).

Expert – Horlan Sakenovna Tursumbekova, Ph.D., Associate Professor, L. B. Goncharov Kazakh Automobile and Road Institute(Almaty, Republic of Kazakhstan);

Employer – Nikolay V. Pyatkov, Chief Engineer, LLP Stroytekhproekt (Ust-Kamenogorsk, Republic of Kazakhstan).

Student – Asylzat Yerkinzyzy Yegizbayeva, 4th year student, 6B060101 – Information Systems, S.Amanzholov East Kazakhstan university(Ust-Kamanogorsk, the Republic of Kazakhstan).

Student – Meruert Serikkyzy Bayantay, 4th year student, EP 5B090300, S.Seifullin Kazakh Agrotechnical University (Nur-Sultan, the Republic of Kazakhstan).

Student – Amre Bazarbek , member of the Alliance of Students of Kazakhstan, a 4th year student, EP 5B070200 –Automatization and Management, L.N.Gumilev Eurasian national university (Nur-Sultan, the Republic of Kazakhstan).

IAAR Coordinator – Guliyash Balkenovna Niyazova, project manager for institutional and specialized accreditation of universities.

(III) REPRESENTATION OF THE EDUCATIONAL ORGANISATION

Non-Profit Joint-Stock Company D. Serikbayev East Kazakhstan Technical University(EKTU) is a higher educational institution that implements professional education programs of higher and postgraduate education. EKTU has the necessary regulatory documents for education activities (license No. KZ50LAA18507 dated July 29, 2020 for engaging in education activities, the Charter of EKTU, internal regulatory documents, professional education programs). The educational institution was founded in 1958 in accordance with the Decree of the Council of Ministers of the USSR dated August 5, No. 866 and the Resolution of the Council of Ministers of the Kazakh SSR dated August 30, No.765 and was named Ust-Kamenogorsk Road Construction Institute(UK SDI). On May 7, 1996, by the Decree of the Government of the Republic of Kazakhstan No.573, UK SDI was reorganized into East Kazakhstan Technical University. At the request of the university, by the Decree of the Government of the Republic of Kazakhstan dated November 3, 1997 No.1485, it was named after the first rector Daulet Serikbayev. In 1999, the university organized a military department by the Decree of the Government of the Republic of Kazakhstan No.1319 dated 09/07/99. On January 31, 2001 D. Serikbayev East Kazakhstan Technical University was renamed into the Republican State-owned Enterprise D. Serikbayev East Kazakhstan State Technical University by the Decree of the Government of the Republic of Kazakhstan No.163. In 2012, by the decree of the Government of the Republic of Kazakhstan No. 544 dated April 28, 2012, the Republican State Enterprise D. Serikbayev East Kazakhstan State Technical University was reorganized into the RSE on the REM D. Serikbayev East Kazakhstan State Technical University. Currently, EKTU is one of the largest universities in Kazakhstan, the leading center of science, education and culture in the East Kazakhstan region.

The university provides training on 117 educational programs at three levels: bachelor's, master's and doctoral PhD. The number of students is more than 6000 people. The priority direction of the university's activity is the training of highly qualified and in-demand specialists in metallurgical, machine-building, architectural and construction, information and communication profiles.

EKTU functions in conditions of sufficient autonomy, as evidenced by: entry into the Bologna process, the activities of the Academic Council, the Administration, the Educational and Methodical Council, the Scientific and Technical Council, the Council of Young Scientists, the Disciplinary Council, the Faculty Councils providing management of the main academic, scientific and educational processes.

The EKTU organizational structure is traditional and operates in accordance with the regulatory framework of the national education system. Traditional management principles contribute to a clear distribution of functional responsibilities, adherence to official subordination, and participation in collegial decision-making.

The Institute for Development and Advanced Studies runs advanced training and retraining of personnel with higher education for production workers in more than 90 programs, and also trains translators with the qualification Translator in Professional Communication.

The university has a credit education system. The curricula content of specialties and discipline programs is of particular attention. The catalog of disciplines is compiled taking into account the innovation policy of the university and the region, it includes such disciplines that take into account the development of market relations in the country, such as: Innovative Activity, Basics of Research, Patentology, Basics of Entrepreneurship, Basics of Standardization, Modern Branch Technologies and others. An expert system is being developed to determine the trajectory of training and the choice of disciplines based on modern information technology.

Developing innovative education, the university purposefully work to integrate education, science and industry. University departments have branches at large enterprises of the

city and region, such as: Ulba Metallurgical Plant JSC, Kazzinc LLP, Vostokmashzavod JSC, VNIITsvetMet, BipekAvto JSC, BI GROUP - CONSRUCTION LLP, JSC NC Kazavtozhol, RSE National Center for the Quality of Road Assets for East Kazakhstan region", etc., and in Altai Industrial Park, where the most modern technologies and equipment are concentrated. Close cooperation with these and other enterprises in the region promote all types of student practices in accordance with the concept of continuous practical training of students, working curricula and practice programs developed at the university.

Most students receive the necessary working professions during their practical training, which provide training highly qualified specialists with special competencies and practical skills . Graduating departments, within the framework of education programs or through additional types of training, conduct training courses in a wide range of occupations. .

EKTU implements a multi-stage model of lifelong education by opening bachelor's, master's, doctoral and advanced training courses to ensure the academic continuity of the stages of pre-university, university and postgraduate training of specialists.

Promptly responding to the needs of the regional market, EKTU introduces distance technologies, training in reduced educational programs based on technical vocational and higher education. As a result, the able-bodied population gets the opportunity to retrain, obtain an additional specialty in an accelerated time frame and successfully find a job in terms of flexible and dynamically developing market.

Information about the teaching staff of the Departments is posted on the university website. This information contains personal data, information on disciplines taught , scientific interests, professional development, contact information.

Implementation of EP 6B07304 Highway Design and Construction, 7M07304 Highway Engineering is provided by the faculty with basic education corresponding to the profile of the discipline taught and systematically engaged in scientific and methodical activities. Teaching staff of special disciplines have a PhD, Candidate's degree or industrial experience in the relevant professional field.

The total number of the faculty training students in EP 6V07304 Highway Design and Construction / 5B074500 - Transport Construction is 43 people, including:

- in MD and BD cycle - 23 people.
- with academic degrees and titles - 27 people. (62%).
- teaching staff with master's degree - 17 people. (40%).

In 2019-2020 academic year, 19 people were admitted for EP 6B07304 Highway Design and Construction.

Academic year	Total number of the enrolled	According to state order			Fee-paying		
		Total	Kazakh	Russian	Total	Kazakh	Russian
2019-2020	19	16	14	2	3	1	2

Graduate employment for EP 5B074500 Transport Construction, previous to EP 6B07304-Highway Design and Construction.

- 2017-2018 -92%;
- 2018-2019 -92%.

Professor Stuart Chen ,University of Buffalo, New York State, was admitted to the Department of Construction in order to promote developing academic mobility within the EP in 2015-2016 academic year under the Fulbright program. He taught courses in Bridge Construction and Engineering.

In an autumn academic semester 2019-2020 V.Talapov, a Corresponding Member of the International Academy of Architecture (Moscow branch), a member of the Working Group on

the implementation of information modeling technology of the Public Council of the Ministry of Construction of Russia, a member of the Expert Council of the All-Russian BIM technologies competition, an expert of the highest category of the All-Russian Association of Experts on Ecotechnologies, Alternative Energy and Ecological House Building, a leading expert on BIM portals Construction Expert and iscad.ru from Novosibirsk was invited to lecture on BIM - Technologies in Design.

EP 5B074500 Transport Construction, as prior to EP 6B07304 Highway Design and Construction took part in the following ratings:

Rating organization	Rating
National Chamber of Entrepreneurs of the Republic of Kazakhstan Atameken	4,5
IAAR, 2017	2
IAAR, 2018	

For EP 6B07304 Highway Design and Construction and Highways a mobile laboratory was purchased for research work on certification and diagnostics of the state of highway elements, which was the basis for Monitoring and Diagnostics of Highways business contract with a budget over 9 million tenge.

In February 2019, a pilot site was laid in front of the main university entrance with paving flag produced by an experimental plot of paving slabs in cooperation with Center for Advanced Development VERITAS, within the framework of the project Development of Technology for the Disposal of Chlorine Production Waste at UK TMC JSC with the receipt of new types of products, aimed at meeting the needs of the university, as well as for manufacturing paving slabs and curbs for sale to external consumers.

(IV) DESCRIPTION OF THE EEC VISIT

The EEC was regulated by the approved Program of the on-line visit of the expert commission for assessing the quality of education programs at D. Serikbayev East Kazakhstan Technical University from 6 to 8 October, 2020.

On 5 October, 2020, in order to coordinate EEC work, the members of the commission distributed responsibilities, clarified the schedule of the visit, and achieved the agreement on examination methods during on-line setup meeting.

To obtain objective information about the quality of education programs and the entire infrastructure of the university, to clarify the content of self-assessment reports, on-line meetings were held with the rector, vice-rectors of the university, heads of structural units, heads of educational programs, faculty, students, graduates, and employers. 31 people participated in the meetings (Table 1).

Table 1 – Information about employees and students who took part in on-line meetings with the EEC NAAR:

Category	Number
Rector	1
Vice-rectors	4
Heads of structural divisions	10
Deans	3
Heads of educational programs	3
Faculty	5
Students, undergraduates, doctoral students	5
Graduates	-

Employers	1
Total	31

The on-line excursion for the EEC members provided them with the material and technical base; they visited laboratories for testing road-building materials, computer and lecture halls.

At the on-line meetings of the IAAR EEC with the target groups of the Academy, the mechanisms for implementing the policy of the university were clarified and the data presented in the university self-assessment report was specified.

EEC members visited online the practice bases of accredited programs: RSE National Center for the Quality of Road Assets in East Kazakhstan. EEC members also attended on-line training classes:

- in Modern Technologies for Highway Construction, trained by Zh.A.Zhamigazina; Methods of laying the pavement with crushed stone-mastic asphalt concrete (SMA) were discussed in detail, the characteristics of the material, percentage composition, test methods were given.

In accordance with the accreditation procedure, 5 students were interviewed. In order to confirm the information presented in the Self-Assessment Report, the external experts requested and analyzed the university working documentation. Also, the experts studied the Internet positioning of the university through its official website at <https://www.ektu.kz/>.

In context of the program, recommendations for improving the EKTU accredited educational programs, developed by the EEC based on the results of the examination, were presented at an online meeting with the University administration on 08.10.2020.

(V) COMPLIANCE WITH THE STANDARDS OF INITIAL SPECIALISED ACCREDITATION

5.1. Standard “Management of Educational Programme”

Proof part

Academic activity of D. Serikbayev EKTU is based on the basic regulatory educational documents of the Ministry of Education and Science of the Republic of Kazakhstan.

Implementation and development of EP being accredited 6B07304 - Highway Design and Construction, and 7M07304 - Highway Engineering are determined by the mission, the development strategy of the university, as well as the development plans of the EP.

EKTU has a license No. KZ50LAA18507, 07/29/2020 and a certified Quality Management System since 2006.

By Order of the Committee of State property and privatization of Ministry of Finance of the Republic of Kazakhstan No. 345 dated June 2, 2020 About creation of the noncommercial joint-stock company D. Serikbayev East Kazakhstan technical University, certificate of state reregistration of a legal entity from 24.06.2020, RSE on PVC D. Serikbaev EKTU was reorganized into non-commercial joint-stock company D. Serikbayev East Kazakhstan technical University.

The implementation and development of accredited programs is determined by the mission, the development strategy of the university, as well as the EP development plans.

The development and management of accredited EP are carried out in accordance with the State Program for the Development of Education and Science of the Republic of Kazakhstan for 2020-2025; the state compulsory standard of higher education, approved by the Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 604 (with amendments and additions approved on 05.05.2020 No. 182), the State compulsory standard of postgraduate education, approved by the Order of the Minister of Education and

Science of the Republic of Kazakhstan dated 31.10.2018, No. 604 (with amendments and additions approved on 05.05.2020 No. 182), Dublin descriptors, consistent with the European qualifications framework, Messages of the head of state.

To manage the EP, there is necessary information, personnel, financial and material and technical resources available, as well as regulatory documents for EP implementation.

The EP management involves representatives of employers, teaching staff and students to determine the directions and management of EP development. P

, An audit by external and internal experts is used to assess the success of the EP implementation plan, the objects of which are educational and methodological documentation of specialties and disciplines, the compliance of their content with regulatory requirements. In case of a discrepancy, measures are taken, action plans are developed to eliminate them.

High-quality education is the main goal of the university, therefore the university attracts the best teachers bringing up the latest knowledge, teaching and research technologies. The university maintains close relations with enterprises and professional institutions in order to meet the needs of employers.

The international reputation of the university is confirmed by the fact that the university received 3 QS stars (Great Britain) within the international rating system QS Stars. An independent audit recognized our university as a “star” one in terms of the quality of education, employment and innovation. At the request of the university, the QS rating company conducted a benchmarking study, the results of which demonstrated the university position in comparison with fifteen foreign universities, including: National Taiwan University of Science and Technology, University of Tsukuba, Braunschweig University of Technology, Tampere University of Technology), Tomsk National Research Polytechnic University, Belarusian National Technical University, etc.

Analytical part

EEC IAAR after holding meetings, conversations and interviews with the rector, vice-rectors, directors of institutes, heads of departments, heads of structural divisions, students, faculty, representatives of employer organizations and graduates, after questioning the teaching staff and students, detailed informing experts with the educational infrastructure of the university, materially -technical and informational-methodical resources, necessary documents states the following:

1. In accordance with ISO 9001: 2015 standards, the university has published the quality policy. The quality policy was considered at the meeting of the QMS Coordination Council on October 7, 2019 and was approved by the rector. The quality policy is periodically reviewed on the basis of: International Standard ISO-9001: 2015; University Strategic development program for 2018-2021; ESG standards and directives; current analysis results of satisfaction of educational services consumers and other stakeholders. In addition, the university approved its own Policy (order No. 133-P, March 27, 2020), consisting of 12 structural policies, including academic policy, personnel policy, digital technology policy, etc. The Policy is posted on the educational portal.

2. In 2015, the Council of Employers for clusters of educational programs was created at the faculties. Every year, a workshop on EP management is held involving faculty and employers, discussing the content of the MEP and EMCD, EP curricula, as well as topics of term papers and theses, etc.

3. The experienced heads of enterprises who have made a significant contribution to the development of the road industry are external experts of the EP. For example, in 2015-2016 academic year, a Memorandum of Cooperation with LLP BI GROUP-Construction was signed on November 30, 2015. In 2015, a cooperation agreement between RSE D. Serikbayev EKSTU and LLP BI GROUP-Construction was signed. In 2019-2020 academic year, in order to continue cooperation, the university and the following regional road industry enterprises represented by O.S. Akhmetova, deputy Director of VKOF JSC NC KazAvtoZhol, E.A. Ayazbaeva, Head of

the RSE Department of the National Center for the Quality of Road Assets in the East Kazakhstan region signed an agreement on the students' professional practice.

4. Activities for the implementation of the educational program 6B07304 - Highway Design and Construction / 5B074500 - Transport Construction are carried out on the basis of normative legal documents of the Ministry of Education and Science of the Republic of Kazakhstan, in accordance with the mission and internal regulatory documents of EKTU. University educational programs for all levels of education are developed in accordance with the National Qualifications Framework and in accordance with Dublin descriptors. When developing them, the university adheres to the goal of ensuring the continuity of their content, takes into account the logic of the academic relationship of disciplines, their consistency and continuity.

5. The specialists from leading production enterprises Atabaev I.Zh., Director of VKOF JSC NC KazAvtoZhol, Ayazbaev E.A., Head of the department of the RSE National Center for the Quality of Road Asset, representatives from D. Serikbaev EKTU - A.K.Raimbekova, B.T.Alimgazin, senior lecturers, and Zh.A.Zhamigazina, a teacher. Some students such as Ozhenov Esbolat, group 15-TR-1, 018-2019 academic year, and Amanova Aiganym, group 16-TRK-1, in 2019-2020, also participated in the development and formation of the EP.

Strengths/best practices

Quality Policy has been published, which declares the interaction between teaching, research and learning, as well as between the business community and the university, is of key importance.

Transparency and collegiality in the EP development plan and its focus on meeting the needs of the state, employers, stakeholders and students.

Involvement of employers, students and teaching staff in planning the EP development.

EEC recommendations

- to continue the introduction of double-diploma education, started by the University within the educational programs 6B07304 - Highway Design and Construction, 7M07304 - Highway Engineering.

- to expand cooperation with manufacturing enterprises in order to provide their students with the bases for internship and further employment of their graduates.

Conclusions by EEC according to the criteria of the Standard of Management of the educational program: EP 6B07304 - Highway Design and Construction, and 7M07304 - Highway Engineering have 1 strong and 14 satisfactory positions.

5.2. Standard “Information Management and Reporting”

Evidence part

The university has implemented information management processes, including the collection and analysis of data to ensure the quality of EP implementation, to assess the performance, to determine the degree of implementation of the mission, goals and objectives, and opportunities for continuous improvement of the service provided. In order to manage information, the university sub-departments use the official website of the university **www.ektu.kz** (in three languages), where the regulatory documents of the university are freely available and information on the management, planning and implementation of EP (curricula, teaching materials, class schedule, etc.) is accessed. The website and educational portal of the university **www.do.ektu.kz** are a unified system of information support for students and teaching staff.

The educational portal of EKTU is a system for organizing and managing the educational process, which allows us to take advantage of modern innovative technologies in science and education, taking into account the economic, regulatory and other features associated with

studying at a technical university. The existing system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools allows us to effectively manage information and generate reports.

To improve the internal quality assurance system, the university conducts audits of the educational programs. In this connection, Zh.A. Zhamigazina, the teacher of the specialty “Transport construction” in the period from 8 to 10 September 2016, took a course at “Training of internal auditors in the quality management system in accordance with the requirements of international standards ISO 9001: 2015, ISO 19011-2011” seminar (LLP “ISO standard plus”).

EP management issues are considered at meetings of the university Academic Council (minutes No. 9 of 05/30/2018, No. 7 of 12/24/2018), as well as at meetings of department / school councils.

EKTU is a digital university; therefore, information security issues are priority. The university has developed a number of internal documents defining the procedure and ensuring information security, they specify the persons who are responsible for the accuracy and timeliness of information analysis and data provision. These are the following documents: “Regulations on the corporate computer network of D. Serikbayev EKSTU” (approved on May 16, 2018), “Document flow regulations” (approved on December 10, 2018), DP “Protection of electronic information resources” (approved on May 16, 2018), “Educational portal” (approved on March 14, 2018), “Information site” (approved on March 07, 2018), “Regulations on the commercial secrets of RSE on the REM “D. Serikbayev EKSTU” (approved on June 29, 2018).

The university annually conducts several types of questionnaires, the results of which are considered at meetings of the Coordination Council for QMS (minutes No. 3 from 20.06.17, No. 4 from 22.06.18), as well as at meetings of dean’s offices and sub-departments. The results of various surveys are posted on the University website.

The collegial and advisory bodies include representatives of the teaching staff, students. For example, 13% are students, 28% are representatives of the teaching staff.

In order to collect information about the processes progress and the satisfaction of external and internal customers, various types of questionnaires are annually conducted: “University through the graduates’ eyes”, “Teacher through the students’ eyes”, “Teacher through the colleagues’ eyes”, Evaluation of EKTU QMS, “Freshmen questioning”, “Evaluation of the educational program”.

The producing sub - departments, on the basis of direct contacts and interviews of employers, collect information on the satisfaction of employers with the quality of graduates’ training.

Analytical part

Analysis of the standard under consideration for accredited EP allows us to make the following conclusions.

1. The university has a system of collection, analysis and management of information based on the use of ICT and monitoring of student recruitment, academic performance, contingent movement, staff, academic mobility of teaching staff, students, etc., which is presented in regular reports at meetings of sub-departments, rectorate and Academic Council of the University.

2. The management of EP demonstrated information security, including the identification of persons who are responsible for the accuracy and timeliness of information analysis and data provision. Experts note that the IT Department has created an effective information security system, and the responsible persons are regulated by internal procedures and corporate regulations.

3. The information collected and analyzed by the university within EP takes into account the availability of educational resources and support systems for students. This is evidenced by the creation of the official website of the university (www.ektu.kz) and the educational portal (www.do.ektu.kz)

4. Despite the fact that employers, teaching staff and students were involved in the process of collecting and analyzing information, their number seems to be insufficient. For example, during the EEC visit, only 5 students were surveyed. Therefore, the commission came to the conclusion that work in this direction should be intensified, namely, to attract a larger number of students and teaching staff.

6. The survey of students, conducted during the visit of EEC IAAR, for a number of indicators is:

- usefulness of the website of the educational organization in general and departments in particular: completely satisfied and partially satisfied – **97%**;

- informing students about courses, educational programs and academic degrees: completely satisfied and partially satisfied – **100%**;

- informing the requirements in order to successfully complete given specialty: fully satisfied and partially satisfied – **97%**.

Strong points / Best Practice

The information collected and analyzed within EP takes into account the dynamics of the students' contingent in the context of forms and types.

Ensuring the information security, identifying persons responsible for the accuracy and timeliness of information analysis and data provision.

EEC recommendations

Continue work on participation in International educational projects. Improve vocational guidance work in order to attract students to the specialty.

Conclusions of EEC on “Information Management and Reporting” standard criteria: EP 6B07304 - “Highway Design and Construction” and 7M07304 - “Highway Engineering” have 2 strong, 14 satisfactory positions.

5.3 Standard “Development and Approval of the Educational Programme”

Evidence part

The University has approved the Regulation “Designing an educational program” (dated April 22, 2019) which regulates the procedure for EP developing and their approval https://www.do.ektu.kz/laws/smk/P_701.03-II-2019.pdf. In the “Regulations on the Head of the Educational Program” (approved on August 29, 2019), the main goal of the head of EP is to organize activities for the design and implementation of the educational program, to ensure and control the quality of fundamental and professional training of graduates. In connection with the definition and documentation of EP procedure, employers from the leading road construction enterprises participate in the development of the educational program in the specialty “Transport construction” for the accreditation period: I.Zh. Atabayev - Director of EKOB JSC “NC KazAvtoZhol”; Ye.A. Ayazbayev - Head of RSE Department “National Center for the Quality of Road Assets” in East Kazakhstan oblast (Shygys Zhol laboratory)” and senior teachers of D.Serikbayev EKTU according to this EP A.K. Raimbekova, B.T. Alimgazin, as well as a teacher of D. Serikbayev EKTU Zh.A. Zhamigazina and students Esbolat Ozhenev (group 15-TR-1), Aiganym Amanova (group 16-TRK-1).

The University independently develops educational programs in accordance with the National Qualifications Framework, professional standards and agreed with the Dublin descriptors and the European Qualifications Framework, with the current State Compulsory Standard for Higher and Postgraduate Education and the Classifier of areas for higher and postgraduate education training. The results of EP development are determined on the basis of the first level of Dublin descriptors (bachelor's degree) and are expressed by competencies. The objectives of EP are consistent with the strategy of the University, they clearly indicate the expected results.

The objectives of EP 6B07304 “Highway Design and Construction” / 5B074500 “Transport construction”:

- preparing graduates for developmental and management activities in the field of construction and engineering works;
- preparing graduates for design and engineering activities using computer-aided design tools;
- preparing graduates for organizational and technological activities; research;
- preparing graduates for scientific and pedagogical activities;
- preparing graduates for self-study and mastering new professional knowledge and skills, continuous professional self-improvement.

As a part of the external expertise by enterprises: RSE “National Center for the Quality of Road Assets” for EKOB JSC “HC “KazAvtoZhol”, there was an expert opinion issued for a modular accredited educational program, as well as reviews for a modular educational program EP 6B07304 “Highway Design and Construction” / 5B074500 “Transport Construction”.

EP for bachelor students studying on 6B07304 “Highway Design and Construction” provides the following types of practices:

- educational (1 year of studying);
- production (2,3 years of studying);
- pre-diploma (4 year of studying).

The content of elective disciplines for EP “6B07304 - “Highway Design and Construction” / 5B074500 – “Transport Construction” is discussed with representatives of enterprises. When compiling and adjusting the content of EP, specialists from the leading production enterprises were involved: I.Zh. Atabayev - Director of EKOB JSC “NC KazAvtoZhol”, Ye.A. Ayazbaev - Head of Department RSE “National Center for the Quality of Road Assets”. At the same time, the content of disciplines in syllabuses and work programs has been coordinated with leading enterprises. The major disciplines for EP 6B07304 “Highway Design and Construction” / 5B074500 – “Transport Construction” were included in the curriculum at the suggestions of employers: “Road Maintenance -1”, “Organization and Planning of Transport Facilities Construction”, “Technology and Organization of Roadbed Construction”.

Analytical part

Analysis of the standard under consideration for accredited EP allows us to make the following conclusions.

1. The university documents EP development procedures and their approval at the institutional level. This is evidenced by the fact that EP are considered and discussed at the meetings of the Schools, agreed with the leading manufacturing enterprises, then at the meeting of the EMC of the University. The final approval of EP takes place at EMC and the Academic Council of the University.

2. The members of EEC note that the accredited EP provide components for preparing students for future professional activities, developing key competencies, intellectual and academic skills.

3. The management of EP showed the Schools have Academic Councils, which include employers, students and teaching staff participating in the development of EP. However, it should be noted that EP includes disciplines offered only by potential employers.

4. The experts note that it is necessary to provide the analysis of efficiency and concretize cooperation with foreign educational organizations in the development plans of EP.

5. A questionnaire survey of students conducted during the visit of the IAAR EEC showed the followings:

- level of accessibility and responsiveness of the university administration: fully satisfied and partially satisfied – 94 %;
- availability for academic counseling: fully satisfied and partially satisfied – 100%.

Strong points / Best Practice

Documenting the development procedure of EP and their approval at the institutional level.

Periodic update of EP.

The effectiveness of organizing and conducting professional practices.

The complexity of EP is clearly defined in Kazakhstan credits and ECTS.

EEC recommendations

Carry out work on the involvement of teaching staff, students and undergraduates in the research work of the university within EP, including grant scientific projects of the Ministry of Education and Science of the Republic of Kazakhstan, as well as in economic contract projects in the direction of training.

Conclusions of EEC on “Development and approval of the educational program” standard criteria: EP 6B07304 - “Highway Design and Construction” and 7M07304 - “Highway Engineering” have 4 strong, 7 satisfactory positions, suggesting improvement - 1.

5.4 Standard “On-Going monitoring and Periodic Review of Educational Programme”

Evidence part

The university systematically monitors and periodically evaluates educational programs. The Center for Marketing and Foresight of the University constantly researches the relevance and prestige of university specialties in East Kazakhstan oblast. Research covers over 100 EKO enterprises. These enterprises represent all key sectors of the regional economy - mining and metallurgical complexes, mechanical engineering, energy, construction, transport and others, exactly these enterprises employ university graduates. For example, the 2018 study showed the most demanded specialties for the region: Information Systems; Computing Technology and Software; Automation and control; Construction; Power engineering; Mathematical and Computer Modeling; Metallurgy; Radio Engineering, Electronics and Telecommunications; Instrumentation; Transport, Transport Equipment and Technology; Mechanical Engineering. Every year, once at the end of the academic year, educational programs are reviewed and updated and approved for the next academic year. EP is regularly updated taking into account the level of development of science, culture, economy, technology and social sphere. Disciplines for this EP curriculum 2016: “Highway construction technology”, “Construction technology and organization”, “Organization of transport facilities construction”, in order to ensure the relevance of the taught discipline in the curriculum 2019 were renamed: “Technology and organization of roadbed construction”, “Technology of transport facilities construction”, “Organization and planning of transport facilities construction”.

The head of EP responds to changes in the external environment and to the needs of the professional community. In connection with the increased needs for personnel in the road industry, namely in the specialization of design, technology and operation of highways, at the suggestion of the representatives of the enterprise, the curricula renamed the disciplines “Roadbed construction technology”, “Construction technology of transport facilities”, “Organization and planning of transport facilities construction”. In connection with the implementation of the Digital Kazakhstan program, the IT content of EP has been increased by 40%, providing for the use of the following software: Compass, AutoCad, Corel DRAW, Skad, and others. According to the accredited EP 6B07304 “Highway Design and Construction” / 5B074500 “Transport Construction”, the classes are conducted in the discipline “Computer-aided design of highways”, students use the following training programs and applications: AutoCAD, Compass, IndorCard.

The students’ needs and satisfaction with training by EP 6B07304 - “Highway Design and Construction” / 5B074500 “Transport Construction” are studied in the course of various surveys conducted at the university. According to EP, students can indicate their wishes in their

personal account through the survey “Satisfaction with EP”, and graduates, after defending their graduation works, participate in the survey “Educational Program Evaluation”

A systematic analysis and monitoring of the teaching staff activities, constant assessment of the teaching staff competence and teaching efficiency are provided. The teachers of the sub-departments conduct high-quality individual documentation; correctly and timely fill in individual plans for all sections. They report on the implementation of the individual plan in January for the first half of the year and June for the whole year at the sub-department meetings (minutes No. 6 from 01/27/2017, No. 11 from 06/14/2017, No. 6 from 01/26/2018, No. 11 from 06/14/2018) where an appropriate conclusion on the implementation is given or the reason for non-fulfillment of individual sections of the individual plan is analyzed.

In order to practically implement the concept of independent and objective control of students’ knowledge during the examination session, the University uses the procedure of computer testing. In recent years, its share amounted to 45% of the total number of exams. As a candidate for joining the League of Academic Integrity, the university has revised the ratio of exam forms for the summer session of the 2018-2019 academic year: written and oral - 60%, in the test form - 40%. The list of disciplines with an indication of the exam form was approved by the rector of the university. During the summer examination session of the 2018-2019 academic year, written examinations were organized using the “blind check” method (including with the involvement of the teaching staff of other universities). From the 2019-2020 academic year, this ratio was 90:10.

Analytical part

Analysis of the standard under consideration for accredited EP allows us to make the following conclusions:

1. The university constantly monitors and periodically evaluates EP in order to ensure the achievement of the goal and meet the needs of students and society. EP is regularly updated not only structurally, but also substantively, while the requirements of the labor market, employers, students, teaching staff and chairmen of SAC are taken into account when developing elective courses, developing the content of the professional practice program and choosing the topic of graduation theses.

2. According to the development plan, the accredited EP train bachelor and master students, taking into account the generalization of modern domestic and world training experience in this area, individual and collective scientific and educational-methodological achievements, employers’ requirements, labor market demands and the development of state programs of the Republic of Kazakhstan. The experts note that the revision of the content of EP and CED takes place annually, taking into account the requirements of the market and the wishes of students and employers.

3. A survey of students, conducted during the visit of IAAR EEC, showed that students assess the overall quality of educational programs as completely satisfied and partially satisfied–100%.

Strong points / Best Practice

Monitoring and periodic evaluation of EP in order to ensure the achievement of a goal that meets the needs of students and society;

Load, academic performance;

Participation of students, employers, and teaching staff in the revision of EP.

The content of the programs in the light of the latest achievements of science, the training of bachelor and master students, taking into account the generalization of modern domestic and world training experience in this area, individual and collective scientific achievements.

Satisfaction of students with the training quality in accredited EP.

EEC recommendations

To involve more widely practitioners from production in the development and approval of EP.

Conclusions of EEC on Standard “On-Going monitoring and periodic review of educational programmes” criteria: EP 6B07304 - “Highway Design and Construction” and 7M07304 - “Highway Engineering” have 9 satisfactory positions.

5.5 Standard “Student-centered Learning, Teaching and Performance Evaluation”

Evidence part

The academic policy of EKTU is aimed at providing comprehensive support to students when studying programs of higher and postgraduate education using credit technology of education, the main task of which is to develop students’ abilities for self-organization and self-education based on the election of the educational trajectory within the framework of regulating the educational process and taking into account the amount of knowledge in the form of credits.

The University provides equal opportunities for students in the formation of an individual educational trajectory. The individual educational trajectory of a student is determined by registering students for elective disciplines.

The result of the students’ registration is the formation of an individual curriculum (IC), which reflects the academic disciplines (indicating the number of credits) of both a mandatory component and an elective component (elective disciplines). Registration of students for the study of elective disciplines is organized by deans’ offices and advisors; student registration is controlled by the registrar’s office.

IC takes into account the specialization chosen by the student and is compiled for each academic year. After drawing up IC, IIC of the undergraduate specialties are formed.

There is a system of electronic registration of students for elective courses in D.Serikbayev EKTU, as well as an electronic registration system of students’ choice informing IC.

The head of EP seeks to ensure attention to different groups of students and their needs, providing them with flexible learning paths and using various forms and methods of teaching and learning.

The university conducts training in Kazakh, Russian and English, which makes it possible to receive education in the language the student chose.

The University has developed “Regulation on the use of innovative technologies in D. Serikbayev EKTU educational activities” (from 22.05.2017), posted on the educational portal of the university www.do.ektu.kz

Elements of innovative teaching technologies have been developed and introduced into the educational process:

- case studies,
- active learning methods – production classes;
- problem-situational modeling;
- introduction into production of the diploma projects and works results;
- introduction of research results into the educational process.

In order to develop and introduce elements of innovative technologies into the educational process, using active learning methods, i.e. conducting a lesson in production, for example, on January 31, 2020 there was held a lecture by the senior teacher of the considered EP B.T. Alimgazin in RSE “National Center for the Quality of Road Assets” in East Kazakhstan, the director of which is Ye.A. Ayazbaev, on the discipline “Examination, diagnostics and certification”, with students of 17-TRK-1 group in the amount of 14 people.

In the 2015-2016 academic year under the Fulbright program, Professor Stuart Chen from the University of Buffalo, New York, with a specialization in “Highway and Airfield Construction” was admitted to the sub-department “Construction”. He taught courses in Bridge and Construction Engineering (Bridge Design 1 and Bridge Design 2). During these courses, Stuart Chen donated a number of educational literature in English to the university library fund.

Within the framework of cooperation of practitioners with university employees, as well as with this specialty students, there was a round table held, where Ye.A. Aydarbekov - Director of the Information Standardization Department (Candidate of Technical Sciences), Kazakhstan Road Research Institute (KazDorNII, Almaty) under the Ministry of Investment and Development of the Republic of Kazakhstan, provided the audience with voluminous information on the new regulatory, reference and scientific literature on surveys, design, and construction of highways.

To assess the educational achievements of students, various forms of control and certification are provided - current monitoring of progress, intermediate and final certification of students, the frequency and duration of which is carried out in accordance with the curricula, the academic calendar and professional curricula developed on the basis of the State Educational Standard of Higher Education and approved by the Academic Council of the university.

The assessment of knowledge, skills and professional competencies of students using credit technology of education is carried out on a 100-point scale with the transformation of the final result into a letter and digital equivalent.

To stimulate the independence and autonomy of students in the educational process, the following teaching methods are used - creating projects, preparing public speeches, artificially creating uncertainty or problem situations, preparing professionally directed videos and presentations.

In the educational process, the teaching staff widely practice the requirement for students to complete tasks for practical exercises, SAWT and SAW in the form of presentations with a form of work protection - a report with a speech, which makes it possible to stimulate the student to self-expression and individuality.

Analytical part

The analysis carried out by the commission leads to the following conclusions:

1. During the visit of EEC, it was noted that there is an impulse for the introduction of modern technologies and methods, however, the teaching staff is recommended to conduct their own research in the field of teaching methods for special (technical) disciplines within EP.

2. Double-diploma education is an important factor, therefore it is necessary to find a partner university and implement a double-diploma education.

3. The head of EP should organize regular training for teaching staff in higher education pedagogy and teaching methods of technical disciplines.

4. A survey of students, conducted during the visit of IAAR EEC, showed that students evaluate

- fairness of examinations and attestation as fully satisfied and partially satisfied – 94,0%;
- tests and exams conducted as fully satisfied and partially satisfied – 100%.

Strong points / Best Practice

The university provides consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each EP.

Supporting student autonomy while providing guidance and assistance from a teacher part.

EEC recommendations

Conduct their own research in the field of teaching methods of special (technical) disciplines within EP.

Organize regular continuing education in higher education pedagogy, teaching methods of technical disciplines, in the professional sphere.

Continue work on the participation of students and undergraduates in olympiads, regional, city, and republican competitions.

Conclusions of EEC on “Student-centered learning, teaching and performance evaluation” standard criteria: EP 6B07304 - “Highway Design and Construction” and 7M07304 - “Highway Engineering” have 10 satisfactory positions.

5.6 Standard “Students”

Evidential part

Stable admission of students and undergraduates for training in the accredited EP:

- availability of the state order for training of specialists in EP;
- carrying out systematic career guidance work by structural divisions of the university;
- stable highly qualified faculty;
- high ranking positions of the university;
- modern material and technical base;
- long-term cooperation with partners, main and potential employers;
- admission of applicants to EKTU is carried out by placing the state educational order as well as paying for tuition at the expense of citizens’ own funds and other sources.
- information on admission to EP 6B07304 – “Design and construction of highways” / 5B07500 “Transport construction” is presented in Table 1.

Table 1

<i>Academic year</i>	<i>Contingent of students</i>
<i>EP 5B07500 “Transport construction”</i>	
<i>2016-2017</i>	<i>31</i>
<i>2017-2018</i>	<i>19</i>
<i>2018-2019</i>	<i>63</i>
<i>EP 6B07304 “Design and construction of highways”</i>	
<i>2019-2020</i>	<i>19</i>

Students Tsasenova K.TS. and M. Fayzollin M.M., “Altyn belgi” owners, study in group 17-TRK-1 in EP 6B07304 – “Design and construction of highways” / 5B07500 “Transport construction”.

Students enrolled in the State program “Serpın 2050” are trained in this EP. The state program “Serpın-2050” “Маңгілік ел жастары – индустрияға” has been implemented in Kazakhstan since 2014. The aim of this program is training and employment of young people from the southern region of the country (Almaty, South Kazakhstan, Zhambyl, Kyzylorda, Mangistau regions) with an excess of labor resources in the east, north and west of Kazakhstan, the regions experiencing a shortage of personnel.

A supervisor from the faculty is assigned to each group in the EP. Curators of groups give reference guides with information about the university administration and its structural divisions, general provisions of educational process organization by credit technology of training, the procedure of registration for elective courses, the system of control and assessment of students’ knowledge, etc. to first-year students. Catalogues of elective disciplines in educational programs posted on the university educational portal (<https://www.do.ektu.kz>) are also offered to students. The annual survey of first-year students reveals the problems of first-year students’ adaptation to the university. Corporate partners of EP 6B07304 “Design and construction of highways” are involved in educational process organization. The curriculum includes disciplines related to real needs of enterprises. By the suggestion of employers (the discipline “Technology and

Organization of Roadbed Construction” was included in the curriculum in 2019, the disciplines “Entrepreneurship”, “Business Law of the Republic of Kazakhstan” were included in the curriculum in 2017).

First-year students in this EP do geodetic practice in EKTU summer expedition campus “Prostor”.

The industrial practice is carried out at specialized enterprises; complex agreements with some of them have been concluded on student practical training and employment at the enterprises. For example, in this EP contracts are concluded with EKOF JSC NC KazAvtoZhol, RSE National Center for the Quality of Road Assets for East Kazakhstan.

Center for Student Services has been operating since January 2018, its main objectives are not only to develop openness and transparency of educational process, optimize services, create a culture of mutual respect and environment intolerant to manifestations of corruption, but also to communicate with students and to provide public, administrative, educational, medical, social, household and advisory services.

Students studying in EP 6B07304 “Design and construction of highways” participated in the Republican subject Olympiad, held at the MOK KazGASA Almaty on March 14-15, 2019 in “Geotechnics I” where Sainuldinov Alisher Bakhytzhanuly was awarded a 1st degree diploma for the 1st place, and Serzhan Zhanmaral, student of group 16-TRK-2, was awarded a 3rd degree diploma for the 3rd place.

Coordinators have been appointed to promote internal academic mobility of university students and faculty by Rector’s order, the coordinator for the university is Head of registrar’s office.

20 agreements on mutual cooperation between EKTU and universities in Kazakhstan are currently in force, including on academic mobility programs: K.I. Satpayev Kazakh National Technical University, S. Toraigyrov Pavlodar State University, T. Ryskulov Kazakh Economic University, L.N. Gumilyov Eurasian National University, S. Seifullin Kazakh Agrotechnical University, University of International Business UIB, International Educational Corporation (KazGASA), Karaganda State Technical University, etc.

Analytical part

Analysis of accredited EPs according to this standard allows us to draw the following conclusions:

1. The university has demonstrated the policy of forming a contingent of students in the context of EP. To increase the number of applications for admission the university conducts active professional orientation work with school graduates.

2. The EP management has demonstrated special adaptation and support programs for first-year students. First-year students are given guidebooks with all necessary information.

3. The university as a whole provides students with the opportunity for external and internal mobility, but the management needs to carry out this work within the EP, as no specific examples were given for EP 5B07500 “Transport Construction”.

Strengths / Best Practice

The University ensures consistency, transparency and objectivity of learning outcome assessment mechanism for each EP.

Supporting student autonomy while providing guidance and assistance from a teacher.

Procedures governing the student’s life cycle have been approved and published.

Admission to EP is accompanied by an introductory course containing information about the organization of education and the specifics of EP.

Opportunity for professional practice in public and private organizations in the city, region and republic.

EEC Recommendation

It is necessary to carry out work on the organization of student’s external and internal mobility in the context of EP.

EEC conclusions on the criteria of “Students” Standard: EP 6B07304 - “Design and construction of highways”, 7M07304 - “Highways” have 3 strong, 11 satisfactory positions.

5.7 Standard “Teaching staff”

Evidential part

The personnel policy is implemented in accordance with the main priorities of the university’s strategy. The personnel composition of EP is completed in accordance with the legislation of RK and the Rules of competitive positions replacement by scientific and pedagogical staff in higher educational institutions.

The selection of personnel is carried out on the basis of need analysis of the EP, according to the results of which a competition is announced for filling vacant positions. Appointment and promotion is carried out on the basis of EKTU Rector’s order taking into account professional competence of employees and the faculty. The personnel potential of the faculty in general corresponds to the strategy of EKTU and the specifics of accredited EPs.

The university pays great attention to the personnel policy, a number of documents have been developed: the Regulations on the selection and adaptation of personnel (dated 26.10.2018), the Regulations on the employee incentive system (dated 30.12.2016), the Regulations on the university’s personnel reserve (approved by Order No. 202-P dated 17.05.2018), the Rules for the competitive replacement of positions of the faculty and researchers (approved on 02.08.2019).

Information about the faculty of schools is posted on the university’s website. This information contains personal data, information about the disciplines, academic interests of teachers, professional development, and contact information.

The share of teachers with an academic degree and/or title in the total number of teachers providing the educational process for EP “Design and construction of highways” / 5B07500 “Transport construction” is 62 %.

The total number of the faculty training students in EP 6B07304 “Design and construction of highways” / 5B07500 “Transport construction” is 43 people, including:

- according to the cycle of PD and BD — 23 people
- With academic degrees and titles — 27 people (62%).
- with a masters degree conducting training sessions— 17 people (40%).

Zhamigazina Zh.A. was hired as a teacher at the Department of Construction in 2016 and Bakirbaeva A.A. was hired as a teacher in 2018 for teaching disciplines in “Transport construction”. They both graduated from D. Serikbayev EKTU, specialty 6B074500 “Transport”. At present they are conducting practical classes in Russian and Kazakh in special disciplines: “Operation of roads”, “Technology of road construction”, “Inspection, diagnostics and certification of roads”, “Design of roads in difficult natural conditions”, “Highways common network”, etc.

Professional development is a functional responsibility of EKTU employees; it is aimed at ensuring their high professional level, improving professional competencies or obtaining new competencies necessary for professional activity, improving the professional level within the existing qualifications.

In order to maintain the faculty’s professional form work is carried out to improve their qualifications in the professional field. For example, senior teachers in this EP Alimgazin B.T., Salimbayeva Z.N., Raimbekova A.K. took professional development courses at the following enterprises:

“UVPEC-Astana”, “JSC UPC“ Seismika-Kurylys ”,“ Center for Expertise and Testing ”,“ TOO Normal Work ”,“ Republican State Institution “Shygys Zhol Zertkhana”.

From May 29 to June 2, 2017, teachers of the Department of Construction Zhamigazina Zh.A., Salimbayeva Z.N., Saparbayev B.K. took courses “Fundamentals of theory and methods

of pedagogical measurements” organized by the Republican State Enterprise “National Testing Center” of the Ministry of Education and Science of the Republic of Kazakhstan; in April 2016 associate professor of the department Goltsev A.G. completed training in the course "Dual form of vocational education as a mechanism of partnership in the system of training specialists", organized by the Innovative Eurasian University, which also paid attention to methods of testing and assessing knowledge.

For implementation of educational programs, the university attracts practitioners. For the past year, about 45 specialists from production have been involved in teaching and research. The share of disciplines taught by practitioners is 10%. In addition to teaching certain disciplines, specialists are scientific advisers of industrial practices, diploma theses, and reviewers.

Practice leaders from the enterprise are appointed annually for students’ summer practice directly at the enterprise in order to attract practitioners of the road construction industry to teaching EP 6B07304 – “Design and Construction of Highways” / 5B074500- “Transport Construction”. Students are required to do practice at road industry enterprises in accordance with the terms and duration assigned in the curricula according to the university order. For example, Musapyrov Sayakhat Oralkhanovich, a laboratory assistant of the 1st category of the quality department of road materials of the RSE “National Center for the Quality of Road Assets” in East Kazakhstan region, Chamakayev Serik Khamitovich (director of Oskemen Zholdary LLP), Daumov Erkin Kamalbekovich (laboratory assistant of the 1st category of the quality department of road materials of the RSE “National center of quality of road assets” for East Kazakhstan region), Musabaev Nurzhan Kambatovich (head of production and technical department - LLP" Katon Karagayskiy PDU "), Nugymanova Asem Erikovna (KGP on REM “OblShygysZhol”), Akhmetov O.S. (Deputy Director of NC “KazAvtoZhol”) kindly agreed to cooperate in supervising and reviewing diploma projects.

The work of senior lecturers in EP 6B07304 – “Design and construction of highways” / 5B074500 – “Transport construction” Alimgazin B.T. and Raimbekova A.K. was noted with a letter of gratitude from Pshembaev M.K. - Chairman of the Committee for Roads of the Ministry of Development and Investments of the Republic of Kazakhstan for their contribution to training of personnel for road industry and in honor of the 60th anniversary of D. Serikbayev EKTU, and a number of other teachers were awarded with badges.

In 2019-2020 Alimgazin B.T., a senior lecturer in this EP published 1 article in co-authorship in “Vestnik”, scientific journal of D. Serikbayev EKTU, on the topic “Improving the Strength Properties of Pavement by Cold Recycling Method” and in the eighth international scientific and practical conference “Roads and Transport Equipment: Problems and Development Prospects” proceedings dedicated to the 80th anniversary of R.A. Kabashev and the 20th anniversary of KazADI in December 2019 on the topic “Taking into Account the Factors of Winter Road Maintenance on the Basis of Vehicle Traffic”. Aitkazina A.K. and Raimbekova A.K., senior lecturers in this EP, as well as teacher Rakizhanova Zh.K., published an article on the topic “On the Probability of Fail-Safe Operation of Reinforced Concrete Coating Slabs” // Vestnik Nauki, Collection of articles based on materials of MNPK, Ufa: Dendra. April 16, 2018, with the issuance of a certificate. Alimgazin B.T. and Raimbekova A.K., senior teachers in this EP, published an article on the topic Actual problems of the Development of Construction and Operation of Highways”/proceedings of international scientific and practical conference dedicated to the 60th anniversary of Kiyalbaev A.K., Doctor of technical sciences, Professor at KazADI named after L.B. Goncharov , April 2017

Khairullina A.A. associate professor, candidate of technical sciences, and Salimbaeva Z.N., senior teacher in this EP, are the authors of the patent on topic "Method of Activating the Mixing of Concrete Mix", 2017

In EP 6B07304 “Design and construction of highways” senior teacher Uazyrkhanova Zh.K. and Kurmanova D.T., Ph.D., Associate Professor, conduct classes in “Computer-aided design of highways” using computer programs AutoCAD, Compass, Skad, IndorCard in “Transport construction” groups.

Kurmanova D.T., Ph.D., Associate Professor and senior teacher Uazirkhanova Zh.K. in EPs 6B07304 “Design and construction of highways” / 5B074500 “Transport construction” completed a full professional development course with a certificate on “BIM - technologies in design”.

The University is systematically active in expanding external mobility of teachers and researchers through international exchange programs. Director of IPDandNET Turganbayev E.M. was invited to Harvard University as a scholar for 2015-2016 academic year through the Fulbright program.

Every year, more than 25 teachers participate in academic and scientific exchange programs with foreign partner universities.

Alontseva Daria Lvovna, Leading Researcher of Program-Targeted Funding KH MES PK, (Alba Regia Technical Faculty, Obuda University, Szekesfehervar, Hungary) traveled by the mobility of teaching staff program, Kim Alina Igorevna, Associate Professor of the Department of Technological Machines and Processes, lectured in Wroclaw University of Science and technology in Mechanical Engineering.

Alimgazin B.T., senior lecturer in EP 6B07304- “Design and construction of highways”/5B074500 – “Transport construction”, has an expert certificate to carry out expert work and engineering services in the field of architectural, urban planning and construction activities and is a technical supervisor in “For objects of the first level of responsibility - in terms of engineering networks.” specialization.

Analytical part

The analysis of accredited EP according to this standard allows us to draw the following conclusions.

1. The university has an objective and transparent personnel policy. The experts note that the personnel composition of EP is completed in accordance with the legislation of RK and Rules of competitive positions replacement by scientific and pedagogical staff in higher educational institutions.

2. The EP management demonstrates awareness of responsibility for their employees. So, in conversations with the members of the EEC teachers gave specific examples of their administration concern for their well-being: allocation of prizes, awarding of diplomas, letters of thanks, etc. for achievements in educational, methodological and research activities or on anniversaries, material assistance, etc.

3. The EP management involves practitioners from relevant industries in teaching. The Commission notes the annual involvement of practitioners in training.

4. EEC notes active professional development work of the faculty.

5. EEC notes that the work on academic mobility of the faculty (external and internal) within the EP should be continued.

6. According to the accredited EP faculty’s survey results, the promotion of innovative activities of the faculty was assessed as very good and good. – 70.3%.

Strengths / Best Practice

1. The university has an objective and transparent personnel policy, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff.

2. The management of the EP is aware of the responsibility for its employees and provides them with favorable working conditions.

3 Active participation of the faculty in various public, scientific and methodological, research, cultural and mass events of the region and the Republic of Kazakhstan.

4. High research and publication activity of the faculty.

5. The faculty regularly takes professional development courses as a necessary condition for professional activity.

6. Attracting teaching staff who have practical experience in production.

EEC Recommendation

To continue work on academic mobility (external and internal) of the faculty within the framework of the EP.

EEC conclusions on the criteria of Standard «Teaching staff»: EP 6B07304 - «Design and construction of highways», 7M07304 - «Automobile roads» have 6 satisfactory, 3 suggesting improvements positions.

5.8 Standard “Educational Resources and Student Support Systems”

Evidential Part

The university has a material and technical base that provides for all types of practical training and students’ research work provided for by the university EP and corresponding to current sanitary-epidemiological and fire-prevention standards and rules.

The university has necessary classroom fund, computer classes, gyms, a rich library fund. EPs are equipped with necessary classroom fund, educational and scientific laboratories, computer labs, teaching materials and specialized rooms.

The material and technical base of the university includes 14 main objects, including: 11 educational and laboratory buildings, 3 student dormitories and the summer expedition campus “Prostor” on the Bukhtarma reservoir, as well as a number of auxiliary premises (workshops, garages, etc.).

The university’s classroom fund includes 328 rooms for educational process, including 99 classrooms, 26 lecture halls, 89 training laboratories, 11 specialized laboratories, 14 educational research laboratories, 54 classrooms and classrooms, 36 educational and specialized computer classes.

Educational process within each EP is provided with the necessary classroom fund, educational laboratories, computer classes. Classes in 6B07304 “Design and construction of highways” / 5B074500 “Transport construction” are held in classrooms G-2-418, G-2-417, G-3-333, G-2-402, G-L-106 equipped with an interactive whiteboard and projectors.

The university provides a systematic update and modernization of the material and laboratory base. For example, in 2017, equipment was purchased for more than 700 million tenge to modernize the existing and create a new scientific, innovative and industrial infrastructure.

The university has modern computer classes: 16 computer classes, with access to corporate resources and the Internet.

Software products AutoCAD, Compass, SKAD, IndorCard, are used in educational process in EP 6B07304 “Design and construction of highways” / 5B074500 “Transport construction” taught at the School of Architecture, Construction and Design by Zh.K. Uazirkhanova, senior teacher of the School of Architecture, Construction and Design and Kurmanova D.T., Ph.D., Associate Professor.

The University library consists of 10 departments, including 6 reading halls for 450 students. It has a sufficient book fund, which is growing steadily. Over the last three years there has been an increase of fund from 1 011 686 to 1 023 326 copies. The fund of literature in the Kazakh language has grown from 78,140 copies to 84,205 copies. The book fund in foreign languages includes 21460 copies. The library is signed for more than 130 titles of periodicals. All information about the library’s electronic resources can be found on the website.

The library’s electronic catalog contains more than 184 thousand bibliographic entries.

There are 37 Wi-Fi hotspots inside the University and in dormitories, with an access speed of 5 MB / s each connection. All IT-services in the University are implemented on the principle of “one window”.

The management of EP 6B07304 “Design and construction of highways” / 5B074500 “Transport construction” carries out comprehensive work support and ensure the progress of students’ academic performance.

Analytical part

As a result of the analysis during the EEC on-line visit and this EP self-report, the EEC members note the following:

1. The management of the EP has demonstrated the sufficiency of material and technical resources and infrastructure. This is evidenced by the fact that the classroom and laboratory facilities, classrooms and other premises, sports facilities comply with the established norms and rules.

2. The EP management demonstrated the compliance of information resources with the EP specifics. The experts note the availability of laboratories with equipment and software products made by well-known companies that meet modern requirements for information security and IT technologies.

3. The EP management enables students to take additional online courses in accordance with the EP specifics. The EEC notes that students take certified courses in the process of training.

5. A survey of students conducted during the visit of the IAAR EEC showed that satisfaction with:

- availability of library resources is 94%;
- existing educational resources of the university is 97%; - availability and accessibility of computer classes and Internet resources is 97%;
- classrooms, classrooms for large groups is 94%;
- lounges for students is 51.6%;
- available scientific laboratories is 84.8%;
- student dormitory accommodation is 66.6%.

Strengths / Best Practice

Active work of the university administration to provide the material and technical base and the auditorium fund for the accredited EP. Compliance of information resources and software products with the specifics of the accredited EP. Additional training for students in certified online courses.

EEC Recommendation:

To expand the use of innovative teaching methods.

To involve more specialists from production in training.

EEC conclusions on the criteria of “Educational resources and student support systems” Standard: EP 6B07304 - “Design and construction of highways”, 7M07304 - “Automobile roads” have 5 satisfactory positions.

5.9 Standard “Public Information”

Evidential part

The University openly publishes complete and reliable information about educational programs (<https://www.ektu.kz/enrollee.aspx>). DP “Information site of EKTU” (approved on 03.07.2018) outlines the rules for functioning of interactive applications, news block management, and security policy of the information site in addition to general requirements for content. This document focuses on objective informing public.

The website - www.ektu.kz (in three languages) and the university educational portal is a unified system of information support for students and faculty.

The website page of the School of Architecture, Construction and Design contains data on EP 6B07304 “Design and construction of highways” which provides complete information

about the relevance of the program, international partner universities, business partners, EP goals, a graduate's competency model, material base of the program, information resources, international partner universities, business partners both in East Kazakhstan region, Kazakhstan as a whole, and in other regions of the near and far abroad.

Information about student support services, including dormitories, the registrar's office, and other departments that are focused on creating learning environment.

EP 6B07304 – “Design and construction of highways” has its own page on the university website, where information about the faculty is given, detailed information is offered for schoolchildren interested in the specialty, i.e. on the main aspects of the design, construction and operation of highways. Materials are given about places of internship, employment, information about partner enterprises, materials dedicated to graduates who are currently heads of road industry enterprises, among which there are enterprises that cooperate with the EP and provide assistance in educational process events, and who are also partners of the university as a whole.

The main means of informing the public (future students, their parents, students, graduates and employers) are social media accounts: VKontakte, Youtube, Facebook, Instagram.

To provide information to the internal environment, a corporate media resource, the University newspaper “ZaZnanie”, is actively used. There are other ways to distribute information at the University: printed materials, exhibitions, promotions, and flash mobs. The main media outlets for publication are national and regional Newspapers and TV channels. All publications have informative, image, and explanatory purposes.

The University openly publishes complete and reliable information about its activities, the rules for admission of applicants, educational programs, terms and forms of training, information about the employment of graduates, alumni reviews, contact and other information useful for applicants and students. Teachers participate in activities aimed at informing students, applicants and all interested parties.

The international prestige of the university is confirmed by the fact that the university received 3 stars of QS (United Kingdom) within the international rating system “QS Stars”. An independent audit recognized our university as “star” in terms of the quality of its training, employment, and innovation.

1. Ranking of universities QS EECA (Developing Europe and Central Asia) 2019/20 - 190 position.

2. Webometrics - 6915 position in the world ranking as of 01.01.2020, 14th place among the universities of the Republic of Kazakhstan.

3. Rating “4 International Colleges & Universities” 2020 - 5978 position in the world ranking, 17 - among 108 universities in Kazakhstan.

According to the results of Independent Accreditation Agency specialized rating and the rating of 2018, 28 educational programs were included in the top three according to the results of a study by the Republican Rating Agency (RRA). 33 educational programs are among the top three. The university is one of the five best technical universities in the country according to NAOKO and ranks second according to the PPA.

In rating of educational programs conducted by NPP Atameken in 2018, 16 educational programs were included in the top five, 9 of which are in the top three in the country. In rating of educational programs conducted by NPP Atameken in 2019, 11 educational programs were included in the top five, 7 of which are in the top three in the country.

Analytical part

The analysis of accredited EP according to this standard allows us to draw the following conclusions:

1. The information published by the university in the framework of the EP is accurate, objective and relevant. The Commission notes the systematic work on the placement of information on the website which allows transparency of activities. The EEC notes the availability of complete information about the teachers participating in the accredited EP on the Institute's website.

2. The EP management uses a variety of ways to inform the general public and stakeholders. The Commission notes that the information is available on EKTU official website, in University newspaper “ZaZnanie”. Other printed materials, exhibitions, promotions and flash mobs, etc. are used.

3. Informing public provides for support and explanation of national programs of development and the system of higher and postgraduate education. In fact, the university has an active media presence in the region, takes part in explaining the President's Messages and government programs, and ensures the dissemination of relevant information relevant to the EP.

4. An important factor is the participation of the university and the implemented EPs in various external assessment procedures. The proof is that the university fully fulfills the external assessment procedures within the framework of accredited EPs and takes an active part in the National EP rating among the universities of the Republic of Kazakhstan, constantly enters the top twenty republican universities participating in the rating.

5. The Commission notes that it is necessary to consider directions of informing the public about cooperation and interaction with partners, including on updating the EP.

Strengths / Best Practice

Publication of objective and relevant information relevant to the EP. Use of a variety of ways of information dissemination (including the media, web resources, information networks, etc.) to inform the general public and stakeholders. Involvement of the public in activities carried out by the university. Performing a variety of external assessment procedures within the accredited EP.

EEC Recommendation

None.

EEC conclusions on the criteria of “Public information” Standard: EP 6B07304 - “Design and construction of highways”, 7M07304 - “Automobile roads” have 1 strong, 9 satisfactory positions.

5.10 Standard “Standards in the Context of Individual Specialties»

Evidential part

According to the requirements of the State Educational Standard, the content of the disciplines accredited by the Bachelor's and Master's degree programs is aimed at acquiring knowledge, both in the field of ICT and scientific and professional skills and competencies. Therefore, theoretical training in the field of various areas of ICT is MC for the preparation of bachelors and masters of education. The specified professional competencies and knowledge requirements of students are reflected in the MEP EP and in the graduate model for each EP.

The EP management demonstrated knowledge of the main trends in ICT renewal and, in accordance with these trends, concentrated its activities on the following main areas of education development:

- ensuring the literacy of EP graduates in the field of information technology;
- formation of practical skills in the field of ICT;
- ensuring the readiness of graduates to work in large and medium-sized companies;
- development of an inclusive culture and professional competencies, etc.

The EP reflects the regulatory requirements for the professional practice of students. The main modules are developed on the basis of an analysis of market needs, trends in the development of world science, the experience of implementing such EP in leading foreign universities. EP is annually updated taking into account modern trends in the development of science, society, economic, political and social processes. The content of disciplines is being

updated, new modules and courses are included that help to maintain the relevance of the knowledge, skills and abilities acquired.

EP managers conduct regular assessment and revision of programs with participation of students, teaching staff, partners and employers based on the systematic collection, analysis and management of information, as a result of which the program is adapted to ensure their relevance.

They constantly maintain feedback with consumers of educational services to improve the EP - monitoring the employment of graduates, questioning students and graduates about the level of satisfaction with the education they receive, conducting a survey of employers about the quality of training of EP graduates. Taking into account the requests of employers for training in the EP under consideration, research laboratories were organized, regular seminars and courses are held for teaching staff and students of the program.

To improve and adjust the EP, the departments hold joint scientific and educational conferences and seminars in order to exchange experience with foreign scientists. Practical teachers are involved in the implementation of the EP. EP is implemented by full-time teachers who, along with pedagogical experience, have significant practical experience.

Analytical part

Based on the results of the analysis, the EEC members came to the following conclusions:

1. Teaching in accredited EP is based on the achievements of science and practice in the field of specialization.
2. The Commission was presented with evidence-based information on the existence of a practice-oriented nature of education, which allows the formation of the necessary professional competencies of graduates.
3. Information on the types of practices and related aspects is presented and confirmed by facts, the main skills and abilities acquired as a result of training are indicated.

Strengths / Best Practice

The presence of bases of practices and branches of departments.

The site contains statistics that allow you to analyze the employment of graduates accredited by the EP.

EEC conclusions on the criteria of the standard "Standards in the context of individual specialties": EP 6B07304 - Design and construction of highways, 7M07304 - Highways have 2 strong, 2 satisfactory positions.

(VI) OVERVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS FOR EACH STANDARD

Standard "Management of the educational programme"

Continue the implementation of double-diploma education, started by the University within the educational program 6B07304 - "Design and construction of highways", 7M07304 - "Highways".

Expand cooperation with manufacturing enterprises in order to undergo practical training for students and further employment of graduates, the possibility of continuing education on the basis of manufacturing enterprises of the teaching staff.

Standard "Information Management and Reporting»

Continue work on participation in International educational projects;

To improve career guidance work in order to attract applicants to the specialty.

Standard "Development and approval of the educational programme"

It is necessary to expand the participation of teaching staff, students and undergraduates in grant research projects through the MES RK, as well as in contractual projects in the area of training.

Standard "On-Going monitoring and periodic review of educational programmes"

To involve more widely in the development and approval of the EP of practitioners from production.

Standard "Student-centered learning, teaching and performance evaluation"

Consider the possibility of implementing a two-degree education.

Conduct their own research in the field of teaching methods of special (technical) disciplines within the EP.

Organize regular continuing education in higher education pedagogy, teaching methods of technical disciplines, in the professional sphere. Continue work on the participation of students and undergraduates in olympiads, regional, city, republican competitions.

Standard "Students"

Consider the possibility of improving the external and internal mobility of students in the context of EP.

Strengthen the interaction of alumni with the alumni association.

Standard "Teaching staff"

Continue work on academic mobility of teaching staff (external and internal) within the EP.

Standard "Educational resources and student support systems"

The use of innovative teaching methods must be expanded.

Continue work on attracting production workers in the field of training to teaching and holding meetings.

Standard "Public Information»"

Consider directions of informing the public about cooperation and interaction with partners, including on updating the EP.

Appendix 1. Evaluation table "SPECIALISED PROFILE PARAMETERS (EX-ANTE)"

Conclusion of the external expert commission for assessing the quality of educational programs 6B07304 - "Design and construction of highways", 7M07304 - "Highways"

№	№	Evaluation criteria	Position of the
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			educational organization			
			Strong	Satisfactory	Suggests improvement	Unsatisfactory
Standard "Management of Educational Programme"						
1	1.	The organization of higher and / or postgraduate education must have a published quality assurance policy. The quality assurance policy should reflect the link between research, teaching and learning.		+		
2	2.	The organization of higher and (or) postgraduate education must demonstrate the development of a culture of quality assurance, including in the context of EP.		+		
3	3.	Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint / double degree education and academic mobility.		+		
4	4.	The EP management demonstrates its readiness to ensure the transparency of the EP development plan based on the analysis of its functioning, the actual positioning of the PA and the focus of its activities on meeting the needs of the state, employers, students and other stakeholders. The plan must contain the timing of the start of the implementation of the educational program.		+		
5	5.	The EP's management demonstrates the existence of mechanisms for the formation and regular revision of the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.		+		
6	6.	EP management should involve representatives of stakeholder groups, including employers, students and teaching staff, in the formation of the EP development plan.		+		
7	7.	The EP's management must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education.		+		
8	8.	The organization of higher and (or) postgraduate education must demonstrate a clear definition of those responsible for business processes within the EP, an unambiguous distribution of staff duties, and the delineation of functions of collegial bodies.		+		
9	9.	EP management must provide evidence of the transparency of the educational program management system.		+		
10	10.	The EP management must demonstrate the existence of an internal EP quality assurance system, including its design, management and monitoring, their improvement, decision		+		

		making based on facts.				
11	11.	The EP's management must carry out risk management, including within the framework of the EP undergoing primary accreditation, as well as demonstrate a system of measures aimed at reducing the degree of risk.		+		
12	12.	The EP management must ensure the participation of representatives of employers, teaching staff, students and other interested persons in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.		+		
13	13.	The TO must demonstrate innovation management within the EP, including the analysis and implementation of innovative proposals.		+		
14	14.	EP management must demonstrate evidence of readiness for openness and accessibility for students, teaching staff, employers and other interested parties.		+		
15	15.	The EP's management should be trained in educational management programs.	+			
Total by standard			1	14	0	0
Standard "Information Management and Reporting»						
16	1.	The EO must demonstrate that it has a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software and that it uses a variety of methods to collect and analyze information in the context of the EP.	+			
17	2.	The EP management must demonstrate the existence of a mechanism for the systematic use of processed, adequate information to improve the internal quality assurance system.		+		
18	3.	The EP management must demonstrate fact-based decision making.		+		
19	4.	Within the EP, a system of regular reporting should be provided that reflects all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research.		+		
20	5.	The EO should establish the frequency, forms and methods of assessing the EP management, the activities of collegial bodies and structural units, top management, the implementation of scientific projects.		+		
21	6.	The EO must demonstrate the determination of the order and ensuring the protection of information, including the identification of persons responsible for the accuracy and timeliness of the analysis of information and the provision of data.	+			
22	7.	An important factor is the availability of mechanisms for		+		

		involving students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.				
23	8.	The EP management must demonstrate the existence of a communication mechanism with students, employees and other stakeholders, as well as mechanisms for resolving conflicts		+		
24	9.	The EO must demonstrate the existence of mechanisms for measuring the degree of satisfaction of the needs of teaching staff, personnel and students within the EP.		+		
25	10.	The EO should provide for an assessment of the effectiveness and efficiency of activities, including in the context of EP.		+		
26	11.	Information intended for collection and analysis within the EP should take into account:		+		
27	12.	key performance indicators;		+		
28	13.	dynamics of the contingent of students in the context of forms and types;		+		
29	14.	academic performance, student achievement and expulsion;		+		
30	15.	satisfaction of students with the implementation of EP and the quality of education at the university;		+		
31	16.	availability of educational resources and support systems for students.		+		
Total by standard			2	14	0	0
Standard "Development and Approval of the Educational Programme"						
32	1.	The EO should define and document the procedures for developing the EP and their approval at the institutional level.	+			
33	2.	The EP management must ensure that the developed EP meets the established goals, including the expected learning outcomes.		+		
34	3.	The EP management must ensure the availability of developed models of the EP graduate, describing the learning outcomes and personal qualities.		+		
35	4.	The EP management must demonstrate the conduct of external examinations of the EP content and the planned results of its implementation.		+		
36	5.	The qualification awarded upon completion of the EP must be clearly defined and correspond to a certain level of the NQS.		+		
37	6.	The EP management must determine the impact of disciplines and professional practices on the formation of learning outcomes	+			
38	7.	An important factor is the ability to prepare students for professional certification.			+	
30	8.	The EP management must provide evidence of the participation of students, teaching staff and other stakeholders in the development of the EP, ensuring their	+			

		quality.				
40	9.	The complexity of the EP should be clearly defined in Kazakhstani loans and ECTS.		+		
41	10.	The EP management must ensure that the content of academic disciplines and the planned results are consistent with the level of education (bachelor's, master's, doctoral studies).		+		
42	11.	The structure of the EP should provide for various types of activities to ensure that students achieve the planned learning outcomes.	+			
43	12.	An important factor is the correspondence between the content of the EP and the learning outcomes of the EP, implemented by organizations of higher and (or) postgraduate education in the EHEA.		+		
Total by standard			4	7	1	0
Standard "On-Going Monitoring and Periodic Review of Educational Programmes"						
44	1.	The EO should determine the mechanisms for monitoring and periodic evaluation of the EP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes should be aimed at continuous improvement of the EP.		+		
		Monitoring and periodic evaluation of the EP should include:				
45	2.	the content of the programs in the light of the latest achievements of science in a specific discipline to ensure the relevance of the taught discipline;		+		
46	3.	changes in the needs of society and professional environment;		+		
47	4.	workload and performance of students;		+		
48	5.	the effectiveness of student assessment procedures;		+		
49	6.	expectations, needs and satisfaction of students with EP training;		+		
50	7.	educational environment and support services, and their relevance to the goals of the EP.		+		
51	8.	The EO, EP management should define a mechanism for informing all interested parties about any planned or taken actions in relation to the EP.		+		
52	9.	All changes made to the EP must be published. The EP management must develop a mechanism for revising the content and structure of the EP, taking into account changes in the labor market, employers' requirements and the social demand of society.		+		
Total by standard			0	9	0	0
Standard "Student-Centered Learning, Teaching and Performance Evaluation"						
53	1.	The EP management must ensure respect and attention to various groups of students and their needs, provide them with flexible learning paths.		+		
54	2.	The EP management should provide for the use of various forms and methods of teaching and learning.		+		

55	3.	An important factor is the availability of their own research in the field of teaching methods of educational disciplines EP.		+		
56	4.	The EP management must demonstrate the existence of feedback mechanisms on the use of various teaching methods and assessment of learning outcomes.		+		
57	5.	The EP management must demonstrate the existence of mechanisms to support the autonomy of students with simultaneous guidance and assistance from the teacher.		+		
58	6.	The EP management must demonstrate the existence of a procedure for responding to student complaints.		+		
59	7.	The EO must ensure consistency, transparency and objectivity of the learning outcome assessment mechanism for each EP, including appeal.		+		
60	8.	The EO must ensure that the procedures for assessing the learning outcomes of EP students are consistent with the planned results and objectives of the program. Criteria and methods of assessment within the EP should be published in advance.		+		
61	9.	In the EO, the mechanisms for ensuring the achievement of learning outcomes by each EP graduate should be determined and the completeness of their formation should be ensured.		+		
62	10.	Evaluators should be familiar with modern methods of assessing learning outcomes and regularly improve their qualifications in this area.		+		
Total by standard			0	10	0	0
Standard "Students"						
63	1.	The EO must demonstrate the existence of a policy for the formation of the contingent of students in the context of EP from admission to graduation and ensure the transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) must be defined, approved, published.		+		
		The EP management should determine the procedure for the formation of the contingent of students based on:				
64	2.	minimum requirements for applicants;		+		
65	3.	the maximum size of the group when conducting seminars, practical, laboratory and studio classes;		+		
66	4.	forecasting the number of government grants;		+		
67	5.	analysis of the available material and technical, information resources, human resources;		+		
68	6.	analysis of potential social conditions for students, incl. providing places in the hostel.		+		
69	7.	The EP management must demonstrate its readiness to conduct special adaptation and support programs for newly admitted and foreign students.		+		
70	8.	The EO must demonstrate that its actions are in accordance with the Lisbon Recognition Convention.		+		
71	9.	The EO should cooperate with other educational organizations and national centers of the "European		+		

		Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers" ENIC / NARIC in order to ensure comparable recognition of qualifications.				
72	10.	The EP management must demonstrate the existence of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education.		+		
73	11.	The EO should provide an opportunity for external and internal mobility of students of EP, as well as a willingness to assist them in obtaining external grants for training.	+			
74	12.	The EP management must demonstrate a readiness to provide students with places of practice, to facilitate the employment of graduates, to keep in touch with them.	+			
75	13.	The EO should provide for the possibility of providing EP graduates with documents confirming the acquired qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion.	+			
76	14.	An important factor is the availability of mechanisms for monitoring the employment and professional activities of EP graduates.		+		
Total by standard			3	11	0	0
Standard "Teaching staff"						
77	1.	The EO must have an objective and transparent personnel policy, including in the context of EP, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff.		+		
78	2.	The EO must demonstrate the compliance of the staff potential of the teaching staff with the development strategy of the PA and the specifics of the EP.		+		
79	3.	The EP management must demonstrate awareness of responsibility for their employees and providing them with favorable working conditions.		+		
80	4.	The EP management must demonstrate a change in the role of the teacher in connection with the transition to student-centered learning			+	
81	5.	The EO should determine the contribution of the teaching staff of the EP to the implementation of the PA development strategy, and other strategic documents.		+		
82	6.	The EO should provide opportunities for career growth and professional development of the teaching staff of the EP.		+		
83	7.	The EP management must demonstrate a willingness to involve practitioners from relevant industries in teaching.		+		
84	8.	The EO should demonstrate the motivation for the professional and personal development of EP teachers, including encouragement for the integration of scientific activity and education, the use of innovative teaching methods.			+	
85	9.	An important factor is the readiness to develop academic			+	

		mobility within the EP, to attract the best foreign and domestic teachers.				
Total by standard			0	6	3	0
Standard "Educational resources and Student Support Systems"						
86	1.	The EO must ensure a sufficient number of training resources and student support services that meet the goals of the EP.		+		
87	2.	The EO must demonstrate the sufficiency of material and technical resources and infrastructure, taking into account the needs of various groups of students in the context of EP (adults, working, foreign students, as well as students with disabilities).		+		
		The EP's management must demonstrate the existence of procedures for supporting various groups of students, including information and counseling. The EP management must demonstrate the compliance of information resources with the EP specifics, including:		+		
88	3.	technological support for students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);		+		
89	4.	library resources, including the fund of educational, methodological and scientific literature on general education, basic and profiling disciplines on paper and electronic media, periodicals, access to scientific databases;		+		
90	5.	examination of research results, graduation works, dissertations for plagiarism;		+		
91	6.	access to educational Internet resources;		+		
92	7.	functioning of WI-FI on the territory of the educational organization.		+		
93	8.	The EO should strive to ensure that the educational equipment and software intended for use in the development of educational programs are similar to those used in the relevant industries.		+		
Total by standard			0	8	0	0
Standard "Public Information»						
		The EO must publish reliable, objective, relevant information about the educational program and its specifics, which must include:				
94	1.	expected learning outcomes of the educational program being implemented;		+		
95	2.	qualifications and (or) qualifications that will be awarded upon completion of the educational program;		+		
96	3.	approaches of teaching, learning, as well as the system (procedures, methods and forms) of assessment;		+		
97	4.	information about passing scores and learning opportunities provided to students;		+		
98	5.	information about the possibilities of employment of graduates.		+		
99	6.	The EP management should provide for a variety of ways to disseminate information, including the media, information networks to inform the general public and		+		

		stakeholders.				
100	7.	Public awareness should include support and explanation of national development programs for the country and the system of higher and postgraduate education.	+			
101	8.	The EO must demonstrate the reflection on the web resource of information characterizing it in general and in the context of educational programs.		+		
102	9.	An important factor is the availability of adequate and objective information about the teaching staff of the EP.		+		
103	10.	An important factor is informing the public about cooperation and interaction with partners within the EP.		+		
Total by standard			1	9	0	0
Standards in the context of individual specialties						
NATURAL SCIENCES, AGRICULTURAL SCIENCES, TECHNICAL SCIENCES, AND TECHNOLOGIES						
		The educational program of the directions "Natural Sciences", "Technical Sciences and Technologies" must meet the following requirements:				
104	1.	The EP should include disciplines and activities aimed at gaining practical experience and skills in the specialty in general and major disciplines in particular, including: - excursions to enterprises for specialization (factories, workshops, research institutes, laboratories, training and experimental farms, etc.), - conducting individual classes or entire disciplines at the enterprise of specialization; - holding seminars to solve practical problems relevant for enterprises in the field of specialization, etc.	+			
105	2.	The faculty involved in the education program should include, as full-time teachers, practitioners with long-term experience as full-time employees in enterprises in the area of specialization of the education program.			+	
106	3.	The content of all EP disciplines should be based on and include a clear relationship with the content of fundamental natural sciences.	+			
107	4.	The EP management should provide for measures to strengthen practical training in the field of specialization.		+		
108	5.	The EP management should provide for the training of students in the use of modern information technologies.		+		
Total by standard			2	2	1	0
TOTAL						