



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ  
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

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АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR  
ACCREDITATION AND RATING

# REPORT

on the results of the external expert commission work on the assessment  
of compliance with the requirements of educational programs  
specialized accreditation standards

7M07314 "Construction of highways and airfields"

Kazakh Automobile and Road Institute named after L.B. Goncharov



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Kazakh Automobile and Road Institute named after L.B. Goncharov

**from «04» to «06» of May 2022**

**Almaty. 2022**

**CONTENT**

<b>(I) LIST OF SYMBOLS AND ABBREVIATIONS</b>	<b>4</b>
<b>(II) Introduction</b>	<b>5</b>
<b>(III) REPRESENTATION OF THE EDUCATIONAL ORGANIZATION</b>	<b>6</b>
<b>(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE</b>	<b>9</b>
<b>(V) DESCRIPTION OF THE WEC VISIT</b>	<b>10</b>
<b>(VI) COMPLIANCE WITH PRIMARY SPECIALIZED ACCREDITATION STANDARDS</b>	<b>11</b>
6.1. Standard "Management of the educational program"	11
6.2. Standard "Information Management and Reporting"	14
6.3. Standard "Development and approval of educational programs"	18
6.4. Standard "Continuous monitoring and periodic evaluation of educational programs"	21
6.5 Student-Centered Learning, Teaching and Assessment Standard	23
6.6. Standard "Students"	28
6.7. Standard "Teaching staff"	30
6.8. Standard "Educational resources and student support systems	36
6.9. Public information standard	42
<b>(VII) OVERVIEW OF STRENGTHS/BEST PRACTICE FOR EACH STANDARD</b>	<b>44</b>
<b>(VIII) OVERVIEW OF RECOMMENDATIONS TO IMPROVE QUALITY FOR EACH STANDARD</b>	<b>45</b>
<b>(IX) OVERVIEW OF THE RECOMMENDATION FOR THE DEVELOPMENT OF EDUCATIONAL INSTITUTION</b>	<b>47</b>
<b>(X) RECOMMENDATION TO THE ACCREDITATION BOARD</b>	<b>48</b>
<b>Appendix 1. Evaluation table "CONCLUSION OF THE EXTERNAL EXPERT COMMISSION"</b>	<b>49</b>

**(I) LIST OF SYMBOLS AND ABBREVIATIONS**

ARF-Automotive and Road Faculty  
 AIS - Automated information system database - basic disciplines  
 VK - university component  
 EAEA - external assessment of educational achievements University - higher education institution  
 GOSE - state obligatory standard of education  
 DET - distance educational technology  
 DD - Dublin Descriptors  
 UNT - unified national testing  
 ECTS - European Credit Transfer and Accumulation System  
 EQF - European Qualifications Framework  
 ICT - information and communication technologies  
 KazARI - Kazakh Automobile and Road Institute named after L.B. Goncharov  
 KazNIICA - Kazakh Research Institute of Construction and Architecture  
 KazRRI-Kazakhstan Road Research Institute  
 CR-Committee for Roads  
 CT - comprehensive testing  
 CTE - credit technology of education MA - magistracy  
 IBS - International Business School  
 MOOC - Massive Online Open Courses  
 MES RK - Ministry of Education and Science of the Republic of Kazakhstan  
 MIID RK-Ministry of Industry and Infrastructure Development of the Republic of Kazakhstan  
 MEP-modular educational program  
 IAAR - Independent agency of accreditation and rating  
 SIEIC - scientific and innovative, educational, industrial complex  
 R & D - research work  
 SRW - research work of students  
 NC - national company  
 RPD - Research and Production Department  
 NQF - National Qualification Framework  
 OQF - Industry Qualification Framework  
 OR - office registrar  
 EP - educational programs  
 TSF-Teaching staff - faculty  
 MD - major disciplines  
 RSE - Republican State Enterprise of the Republic of Kazakhstan - Republic of Kazakhstan  
 ICAS - independent cognitive activity of a student  
 IWS - independent work of students  
 SROP - independent work of students under the guidance of a teacher  
 TC&PBM-Transport construction and production of building materials  
 TSS - teaching and support staff  
 EMCD - educational and methodological complex of the discipline  
 EMC - educational and methodological council  
 EMM educational and methodological management  
 UMK EP - educational and methodological complex of the educational program  
 IIC information technology center

## **(II) Introduction**

In accordance with order No. 49-22-OD dated March 10, 2022 of the Independent Agency for Accreditation and Rating, from May 04 to May 06, 2022, an external expert commission assessed the compliance of the educational program 7M07314 "Construction of roads and airfields" at the Institution "Kazakh Automobile and Road institute. L.B. Goncharov" (Almaty) to the standards of specialized accreditation of the IAAR (No. 57-20-OD dated June 16, 2020).

The report of the external expert commission (EEC) contains an assessment of the submitted educational programs against the criteria of the IAAR standards, recommendations of the EEC for further improvement of educational programs and profile parameters of educational programs.

### **EEC consists of:**

1. Chairman of the EEC - Andrey Tamyarov Candidate of Technical Sciences, Associate Professor of Ulyanovsk State Technical University (Ulyanovsk, RF). Online participation
2. Expert IAAR - Murzalina Gulshat Bukharbaevna Candidate of Technical Sciences, Associate Professor International Educational Corporation (Almaty, Republic of Kazakhstan). Off-line participation
3. IAAR expert, employer - Alimbaev Said Tolegenovich Deputy Director of the Department of Trade and Small Business Development of NCE RK "Atameken" (Nur-Sultan, Republic of Kazakhstan). Online participation
4. IAAR expert, student – Oserbatov Raul Batbairuly EP 6B07115 "Design and construction of roads", East Kazakhstan Technical University named after Serikbaev (Ust-Kamenogorsk, Republic of Kazakhstan). Online participation
5. IAAR coordinator - Nazyrova Gulfia Rivkatovna, project manager for the formation of external expert commissions of the Independent Agency for Accreditation and Rating (Nur-Sultan, Republic of Kazakhstan). Off-line participation

### **(III) REPRESENTATION OF THE EDUCATIONAL ORGANIZATION**

Kazakh Automobile and Road Institute (KazARI, university, institute) named after. L.B. Goncharov was established in 2001 with the support of the Ministry of Transport of the Republic of Kazakhstan, the Ministry of Education and Science of the Republic of Kazakhstan, the Akimat of Almaty to provide personnel for the developing road industry of the Republic of Kazakhstan. In 2011, the institute was renamed into the Kazakh Automobile and Road Academy named after. L.B. Goncharov. May 4, 2019 Kazakh Automobile and Road Academy named after. L.B. Goncharov was renamed into the Kazakh Automobile and Road Institute. L.B. Goncharov (State license No. KZ59LAA00017181 dated October 11, 2019, issued by the Committee for Control in Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan. Initial issue date of August 11, 2011).

KazARI is an associate member of the Intergovernmental Council of Road Workers, Rector Kabashev R.A. - Deputy Chairman of the Board of Education.

Structure and EP of the university:

In the structure of the institute there is 1 faculty: Road, and 4 departments: "Transport construction and production of building materials", "Transport equipment and organization of transportation", "History of Kazakhstan, general education disciplines and information systems", "Economics". The university owns two academic buildings and five student houses. The educational base for the EP includes 11 classrooms with computer classes with a total area of 540.8 sq. m, as well as a reading room connected to the Internet and provided with free Wi-Fi access for students and teachers.

To create a research and production site, 6 hectares were allocated for the construction of a new educational campus of KazARI in the Alatau district of Almaty, construction was completed in 2020 and operation began. In 2019, the construction of a sports complex was completed and put into operation, as well as a football field according to FIFA standards and a 1.2 km bicycle path.

On the basis of KazARI, a Scientific, Innovative, Educational, Industrial Complex (NIOPK) was created with leading educational, scientific and industrial organizations of the road industry.

Every year, educational programs of KazARI participate in the Atameken rating and show positive results among technical universities. For example, the EP "Transport Construction" in 2019 took 1 position out of 6 universities participating in the ranking.

KazARI has introduced an information learning environment KazARI, which includes: AIS PLATONUS; distance learning technology program (DOT), Anti-plagiarism program, library program (KABIS); electronic library with educational and methodological support on electronic media; computer classes with local network and Internet connection of all PCs. The official website of KazARI (<https://kazadi.edu.kz/o-kazadi/>) and the educational portal E-learning have been developed. Access to the Internet is carried out through a fiber optic line with a bandwidth of 36 Mbps with an unlimited amount of information received, provider Obit LLP.

In June 2010 KazARI named after L.B. Goncharov and the Association of Ghent Universities "HOWEST" (Belgium) signed a Memorandum of Cooperation, under which for the first time in Kazakhstan an interactive laboratory was created and operates for the study of hydraulic systems of transport equipment using equipment from Belgium. As part of an official visit to Kazakhstan by Prince Philippe of Belgium, Duke of Brabant, on October 13, 2010, this interactive laboratory was launched. October 15, 2019, as part of the celebration of the decade of cooperation between Howest University of Applied Sciences and KazARI named after. L.B. Goncharov, signed a Memorandum for 10 years on cooperation in the field of formation of joint educational programs, external academic mobility of students and teaching staff. In addition, on the basis of signed international agreements on the exchange of students and teachers, KazARI cooperates with foreign universities: Ataturk University (Turkey), Automotive Institute "ARJU" (South Korea), MARI (GTU), SibARI, TGACU (Russia), TARI (Uzbekistan), etc. Library resources. The library is located in the main building. The total area of the library premises is 216 sq.m., including the book depository - 114 sq.m. The number of seats in the reading rooms is 52. The structure of the library includes: 4 subscriptions and 2 reading rooms. The library fund is 31133 copies. books., of which in the state language - 15903 copies. Fund of educational literature 17809 units, scientific literature 13255 units, fiction 69 units, electronic



editions 803 units.

The contingent of students of the accredited EP as of May 04, 2022:

7M07314 "Construction of roads and airfields" - 33 undergraduates for the 2021-2022 academic year, of which: on the basis of a state educational grant - 0, on a commercial basis - 33.

Information about the department "Transport construction and production of building materials

"Training of specialists accredited by EP 7M07314" Construction of roads and airfields "is carried out at the department" Transport construction and production of building materials "(hereinafter TC&PSM), which is one of the leading departments of KazARI named after L.B. Goncharov and was founded in 2002 as the department "Automobile roads and organization of traffic".

In the period 2006-2008. the main staff of the department was formed, the production and technical base was expanded, contracts were concluded with road enterprises on a scientific and production agreement for the training of specialists through professional practices and employment of graduates of the academy, an educational complex was created, where today practical and laboratory classes are held.

Since 2011, the department has been renamed into "Transport construction and production of building materials."

To date, the department implements EP of 3 levels: bachelor's degree - master's degree - doctoral studies.

The qualitative and quantitative composition of the teachers of the department:

As part of the department "Transport construction and production of building materials" in 2021-2022, 24 teaching staff work, the percentage of degrees in the whole department is 63%, including, according to teaching staff implementing OP 7M07314 "Construction of roads and airfields" - 42%;

The average age of the teaching staff in the department is 47 years.

- Academic mobility for accredited EPs of the cluster for the period 2016-2020 missing.
- Research, economic contract projects in the department are interdisciplinary in nature and are conducted with the involvement of students from all EPs of the accredited cluster:
  - Development of practical recommendations and technical rules for the selection of the optimal composition and concentrations of liquid anti-icing agents for roads with a solid type of surface (contract with AZIAPROEKT MONTAZH LLP, dated February 23, 2018)
  - Development of a methodology for the preparation, use and storage of liquid anti-icing agents to prevent slipperiness on roads in a sharply continental climate" for 2019-2023. (agreement with ISKER-T LLP dated 09/02/2019).
  - Calculation of reinforced concrete bar elements under repeated loading, taking into account the history of damage" for 2018-2019. (contract with Kazzernprom LLP dated 09/01/2018).
  - Development of optimal compositions of high mobility concrete mixtures with fly ash from CHP-2 in Almaty for transport construction" for 2018-2020. (contract with ADEKODOR LLP dated 09/01/2018).
  - Studies of "Warm Asphalt Concrete" with the use of special additives and subsequent monitoring with an assessment of the feasibility of implementation in construction (contract with JSC DSU-13 dated 09/02/2019).

The department implements initiative research projects:

- "Improvement of building structures" (supervisor, Ph.D., Associate Professor Espayeva G.A.): "Substantiation of the design of pavement using bauxite sludge", "Construction of high-rise buildings using tunnel formwork in areas with high seismicity.

**(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE**

Educational program 7M07314 "Construction of roads and airfields" is being accredited by the IAAR again.

Based on the results of the specialized primary accreditation in 2021, which was held from March 10 to March 12, 2021 by the Independent Accreditation and Rating Agency (IAAR), EP 7M07314 "Construction of roads and airfields" was recognized as accredited for a period of 1 year and a certificate was received (2 strong positions and 15 suggesting improvement).





## (V) DESCRIPTION OF THE EEC VISIT

Visit of an external expert commission to the Institution “Kazakh Automobile and Road Institute named after. L.B. Goncharov” (KazARI) was carried out on the basis of the approved and pre-agreed Program of the visit of the expert commission for primary specialized accreditation in the period from 04 to 06 May 2022.

In order to coordinate the work of the EEC, on May 4, 2022, an introductory meeting was held, during which powers were distributed among the members of the commission, the schedule of the visit was specified, and agreement was reached on the choice of examination methods.

In order to obtain objective information on the evaluation of the institute's activities, the members of the EEC used such methods as visual inspection, observation, interviewing employees of various structural units, teachers, students, graduates and employers, questioning the teaching staff, students.

In accordance with the requirements of the standards, the program of the visit included meetings with vice-rectors, heads of structural divisions, deans, heads of departments of the institute, teachers, students, graduates, employers and employees from various departments, interviewing and questioning teachers and students. A total of 80 people took part in the meetings.

Information about employees and students who took part in meetings with the EEC IAAR within the cluster:

<b>Participant category</b>	<b>Quantity</b>
Founder	1
First Vice-Rector, Vice-Rector for AW, BP and EW	4
Heads of structural divisions	8
Deans of faculties	1
Heads of departments	1
teachers	15
students	33
Graduates	11
Employers	6
Total	80

During the excursion, the members of the EEC got acquainted with the state of the material and technical base, visited the classrooms and laboratories of building No. 1 - Raiymbek avenue, 415V, classrooms of building No. 2 - Alatau district, microdistrict. Akmarzhan, 11.

At the online meeting of the EEC IAAR with the target groups of the institute, the mechanisms for implementing the policy of the university were clarified and certain data presented in the self-assessment report of the university were specified.

For the period of accreditation on 05/05/2022 at 16.00, room 411, a training session was attended on the discipline "Motorways" for 1st year students in EP 7M07314 "Construction of roads and airfields" (group CARA-21 (ST), lecturer, prof. Tursumbekova H.S.

During the work, the members of the EEC conducted visits to the following practice bases: Asphaltobeton 1 LLP, AZMK LLP, KazdorSRI JSC.

In accordance with the accreditation procedure, an online survey of 13 lectures and 19 students were conducted.

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

As part of the planned program, recommendations for improving the accredited educational programs of the Kazakh Automobile and Road Institute named after. L.B. Goncharov, developed by

the EEC based on the results of the examination, were presented at an online meeting with the management on May 6, 2022.



## **(VI) COMPLIANCE WITH PRIMARY SPECIALIZED ACCREDITATION STANDARDS**

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

- ✓  *The institution must have a published quality assurance policy.*
- ✓  *The quality assurance policy should reflect the relationship between research, teaching and learning.*
- ✓  *The university must demonstrate the development of a culture of quality assurance, including in the context of EP.*
- ✓  *Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint / double degree education and academic mobility.*
- ✓  *The management of the EP ensures the transparency of the development plan for the EP based on the analysis of its functioning, the real positioning of the university and the focus of its activities on meeting the needs of the state, employers, stakeholders and students.*
- ✓  *The EP management demonstrates the functioning of the mechanisms for the formation and regular review 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.*
- ✓  *The EP management should involve representatives of stakeholder groups, including employers, students and teaching staff in the formation of the EP development plan.*
- ✓  *The EP management must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national development priorities and the development strategy of the educational organization.*
- ✓  *The university must demonstrate a clear definition of those responsible for business processes within the EP, an unambiguous distribution of staff duties, and delimitation of the functions of collegial bodies.*
- ✓  *The management of the EP must provide evidence of the transparency of the educational program management system.*
- ✓  *The management of the EP must demonstrate the successful functioning of the internal quality assurance system of the EP, including its design, management and monitoring, their improvement, decision-making based on facts.*
- ✓  *The management of the EP should carry out risk management.*
- ✓  *The management of the EP should ensure the participation of representatives of stakeholders (employers, teaching staff, students) in the collegiate management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.*
- ✓  *The university must demonstrate innovation management within the EP, including the analysis and implementation of innovative proposals.*
- ✓  *The EP management must demonstrate evidence of openness and accessibility for students, teaching staff, employers and other interested parties.*
- ✓  *The management of the EP must be trained in education management programs.*
- ✓  *The management of the EP should strive to ensure that the progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.*

#### Evidence

The main guidelines for the development of directions for the preparation of the institute are defined in the Development Strategy of KazARI for 2020 - 2025. The academic activities of KazARI and the implementation of the cluster EP are carried out on the basis of the regulatory documents of the Ministry of Education and Science of the Republic of Kazakhstan, internal regulatory documents and Regulations that are consistent with the strategic documents of KazARI: Mission, Vision, Quality Assurance Policy of KazARI <https://kazadi.edu.kz/wp->

content/uploads/2021/03/Politika-v-oblasti-obespecheniya-kachestva-obrazovaniya-KazARI.pdf

The implementation of the educational program 7M07314 "Construction of roads and airfields" is carried out on the basis of license No. KZ95LAA00017181 dated 10/11/2019 for educational activities in the field of higher and postgraduate education, issued by the Committee for Control in Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan.

KazARI demonstrated the existence of a policy in the field of education quality. On the website of the university, using the links <https://kazadi.edu.kz/polozhenie-kazadi/>, the main provisions of the university in the field of quality assurance are presented:

Pos. on the internal system for assessing the quality of education in KazARI A comprehensive plan for the internal assessment of the quality of education in KazARI Academic policy

The mission, goals and development plans of the EP are posted on the website of the university (<https://kazadi.edu.kz/o-kazadi/>), which ensures their transparency and accessibility for interested parties.

The necessary information, personnel, financial and material and technical resources, as well as regulatory and legal documentation that ensure the implementation of educational programs, are available to manage the EP.

The implementation of educational programs is carried out in the context of the State Program for the Development of Education of the Republic of Kazakhstan for 2020-2025, the Law of the Republic of Kazakhstan "On Education", the Law of the Republic of Kazakhstan "On Youth Policy", the Main Directions of the State Educational Policy, the New Economic Policy "Nurly Zhol - the way to the future", as well as other conceptual documents of the Ministry of Education and Science of the Republic of Kazakhstan. Representatives of the graduating department are members of the Republican Educational and Methodological Council and regularly make proposals for improving educational standards, introducing new educational and methodological developments of teaching staff and the strategic development plan of KazARI for 2020-2025 into the educational process, etc.

To achieve the goals of the educational program 7M07314 "Construction of roads and airfields" there are the necessary resources:

- highly qualified teaching staff, represented by 4 Doctors of Science, 1 Doctor of PhD, 11 Candidates of Science, 7 Senior Lecturers - Masters of Science, 1 Senior Lecturer.
- the educational base for the EP includes 11 classrooms with computer classes with a total area of 540.8 sq. m, and there is also a reading room connected to the Internet and provided with free Wi-Fi access for students and teachers;
- availability of professional bases of practice on the profile of training;
- the presence of structural units for the organization and control of the educational process.

Organizations and enterprises with qualified personnel corresponding to the profile of the educational program act as a basis for conducting practices. According to EP 7M07314 "Construction of roads and airfields", the bases for conducting practices are: Kazdorproekt LLP, Doris LLP, SK-Construction LLP, KASKAD-AQ LLP, KazdorSRI JSC, ADEKADOR i etc.

KazARI regularly monitors the satisfaction of employers. The leadership of KazARI is actively implementing the project-based learning technology at the university, considering issues at an expanded meeting of the Academic Council with the participation of teaching staff, representatives of employers and students (Minutes No. 2, 08/27/2021). Perspective and strategic issues of EP development are solved taking into account the opinions of students, teachers, university employees and employers.

When developing educational and methodological support for EP 7M07314 "Construction of roads and airfields", the principle of academic freedom is observed. Elective disciplines are developed by the teaching staff, taking into account the opinion of employers, the personnel potential of the EP and the educational needs of students. The corrected CED for the EP is annually discussed at the meetings of the department, EMC and approved by the Academic Councils of the Institute <https://kazadi.edu.kz/wp-content/uploads/2022/03/KED-2021-2023-SAD-mag-2goda.docx>.

MEPs, PUPs, practice programs are discussed at the graduating department, agreed with employers <https://kazadi.edu.kz/o-kazadi/>, and approved by the Academic Council (AC) of the



institute. There are also approval certificates for modular educational programs from the Deputy Chairman of the Committee for Roads of the MIIR RK Ablaliev S.A., Director of Doris LLP Matov R.S., Director of KASKAD-AQ LLP Hibasheva A.B., Director of SKA-Construction Sarsen K.A.

Control over the development and quality of educational and methodological complexes, working curricula for EP at the internal academic level is carried out by a collegial body: the Academic Council of the Institute, under which the EMS functions, which controls the quality of educational and methodological literature prepared by the teaching staff of the Institute for publication. EMM monitor the quality of methodological support of disciplines <https://kazadi.edu.kz/wp-content/uploads/2021/02/MEP-MiT-20-21g.docx>.

Scientific work at the department has been activated by attracting teaching staff, students to initiative research and publication of scientific results in the journals of KKSON and materials of international conferences.

Scientific articles published by the teaching staff: 2016 - 56 articles; including in KKSON magazines - 10; Scopus-14; 2017 - 42 articles, including 2 in KKSON journals; Scopus-12; 2018 - 47 articles, including 18 in KKSON journals; Scopus-11; ; 2019 - 163 articles, including 94 in KKSON journals; Scopus-10; 2020 - 33 articles, including in KKSON journals - 8; Scopus-9, 2021/20222 - 27 articles, including KKSON journals - 3; Scopus-6.

Students of the departments have free access to the Kazakhstan National Electronic Library, the Republican Interuniversity Electronic Library [www.rmeb.kz](http://www.rmeb.kz), the scientific electronic library eLIBRARY.RU, THOMSON REUTERS WEB OF KNOWLEDGE, ELSEVIER POLPRED.COM, SCOPUS. The scientific and electronic library of the institute works in the same vein, which provides students and teachers with access to foreign full-text databases using a license agreement with the resource operator [elibrary.ru](http://elibrary.ru).

An important tool for maintaining the EP, the goals and objectives of the strategy and their effectiveness, analyzing the current state, assessing resources are regular meetings of the rector with the staff of KazARI. During the dialogue, the introduction of innovations, changes in the structure and goals pursued by the institute are discussed, the current state of affairs is analyzed, the results obtained are monitored and consolidated, etc.

Classrooms, laboratories and classrooms comply with SNiP and SanPiN. The ACH service maintains order, cleanliness and safety on an ongoing basis.

The leadership of the institute is open to suggestions from all interested parties, the reception hours of the rector and vice-rectors are set, boxes for appeals are placed in the building, the rector's blog (<https://kazadi.edu.kz/o-kazadi/>) operates. Heads of departments have a schedule for receiving visitors on personal issues, which are located on the information stand. The departments keep a register of visitors on personal issues.

The democratization of management at the institute is carried out based on the principle of corporate governance through the expansion of the functions of collegial bodies - the EMC, the Academic Council, the Administration, the Board of Trustees. The principle of information openness of the university has been implemented, KazARI is widely represented in the information space of the region and the republic, the Internet space. The principle of feedback has been implemented - sociological surveys and monitoring of the social well-being of students and teaching staff are conducted.

On a systematic basis, according to the approved advanced training program, the management of the EP is trained in education management programs. Evidence of the completion of training by the management of the EP is the certificates that are stored in their portfolio, and also placed in Platonus. For example, the head of the department, M.Sc., Bektursunova G.S., Ph.D. Associate Professor Espaeva G.A. completed the training program on the course "Management in education (72 hours) at the Kazakh National University. Al-Farabi.

#### ***Analytical part***

The content and semantic load of the evaluation criteria of the Standard "Management of the educational program" indicates the presence of measures taken by KazARI to improve the quality in various activities. The Institute has demonstrated a university-wide concept of quality for every activity.

However, the commission notes that the following issues regarding this standard are not fully reflected in the self-report and were not confirmed during the EEC visit.

The management of the EP did not demonstrate the individuality and uniqueness of the EP development plan, its consistency with the national development priorities and the development strategy of the institute.

The uniqueness and advantage of the EP over similar educational programs of other universities has not been sufficiently confirmed, this opinion was confirmed during interviews with the heads of the EP and in the analysis of the submitted documentation (development plans for the EP and MEP).

A specific program for the introduction of innovations in the EP has not been presented, especially taking into account the experience of orienting the EP implemented at the institute to specific sectors of the economy; accordingly, the process of monitoring the implementation of innovations introduced in the EP has not been systematized.

Possession of information regarding the possible risks to which the implemented EPs are exposed contributes to the development of countermeasures against such risks. This, in turn, creates the basis for enhancing and strengthening the corporate culture of the institute, which has a preventive character.

According to the results of the Teaching staff survey:

- 61.5% of teaching staff rate "very good" the possibility of combining teaching with research;
- 46.2% of teaching staff rate "very good" the possibility of combining teaching with applied activities.

According to the results of the survey, the level of accessibility and responsiveness of the university management is "fully satisfied" - 69.2%, "partially satisfied" - 30.8% of students.

A survey of faculty members conducted during the visit of the EEC IAAR showed that the involvement of faculty members in the process of making managerial and strategic decisions is "very good" and "good" - 46.2% and 53.8%, respectively.

Based on the results of interviews, familiarization with various documentation, material and technical base and information and methodological resources of the institute and department, questioning of students and teaching staff EEC IAAR notes the following:

Strengths / best practice for EP 7M07314 "Construction of roads and airfields"

- not available according to this standard

EEC recommendations for EP 7M07314 "Construction of roads and airfields"

1. By the beginning of the 2022/23 academic year, the head of the EP should adjust the EP development plan, indicating achievable indicators, taking into account the needs of all stakeholders (employers, students, teaching staff, graduates, etc.), as well as reflecting the individuality and uniqueness of the EP, consistent with national development priorities and development strategy of the educational organization.

2. By the beginning of the 2022/23 academic year, the university management should develop a plan and regulations for updating the EP, taking into account the current level of development of science and technology, as well as with the mandatory involvement of interested parties (employers, students, teaching staff, graduates, etc.).

3. By the end of 2022, develop a documented risk management procedure.

4. By the end of 2022, develop a plan for introducing innovations and monitoring the implementation of implemented innovations within the framework of the EP and at the university level.

Conclusions of the EEC EP 7M07314 "Construction of roads and airfields":

The EEC notes that according to the standard "Management of the educational program" 12 - satisfactory positions, 5 - suggest improvements.

## 6.2. Information Management and Reporting Standard

- ✓  *The OO must demonstrate the existence of 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.*
- ✓  *The management of the EP should demonstrate the existence of a mechanism for the systematic use of processed, adequate information to improve the internal quality*

*assurance system.*

- ✓  *EP management must demonstrate fact-based decision making.*
- ✓  *Within the framework of the EP, a system of regular reporting should be provided, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research.*
- ✓  *The PA should establish the frequency, forms and methods for assessing the management of the EP, the activities of collegial bodies and structural divisions, top management, and the implementation of scientific projects.*
- ✓  *The OO must demonstrate the determination of the procedure and ensuring the protection of information, including the identification of persons responsible for the reliability and timeliness of the analysis of information and the provision of data.*
- ✓  *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.*
- ✓  *The management of the EP must demonstrate the existence of a mechanism for communication with students, employees and other stakeholders, as well as mechanisms for resolving conflicts.*
- ✓  *OO must demonstrate the availability of mechanisms for measuring the degree of satisfaction with the needs of teaching staff, staff and students within the framework of the EP. OO должна предусмотреть проведение оценки результативности и эффективности деятельности, в том числе в разрезе ОП.*
  - ✓ *Информация, предполагаемая к сбору и анализу в рамках ОП, должна учитывать:*
    - *ключевые показатели эффективности;*
    - *динамику контингента обучающихся в разрезе форм и видов; уровень успеваемости, достижения студентов и отчисление;*
    - *удовлетворенность обучающихся реализацией ОП и качеством обучения в вузе;*
    - *доступность образовательных ресурсов и систем поддержки для обучающихся.*
  - ✓ *ОО должна подтверждать о реализации процедур обработки персональных данных обучающихся, работников и ППС на основе их документального согласия.*

#### *Evidence*

*In KazARI them. L.B. Goncharova introduced information management processes, including collection and analysis.*

In the management of educational, methodological, scientific, educational processes, the following documents regulating the activities of the institute are used: orders of the rector, orders of the first vice-rector, head of the educational and methodological department, dean for areas of activity, documents on students (orders for teaching staff, students), as well as semi-annual , annual reports of structural divisions, reports for the calendar year on research work.

In order to manage information, the departments use the portal of the institute <https://kazadi.edu.kz/o-kazadi/>, where the normative documents of the university are concentrated.

The university ensures the protection of information, including the protection of personal data of students, teachers, employees. KazARI has developed the “Regulations on ensuring information security of KazARI named after. L.B. Goncharov for 2019-2021 The information system ensures the safety and restriction of access and use of personal information only for the purposes of providing educational services, only for the period of study.

The information resource is the Platonus AIS database system, distance learning technologies, which are a program designed to support the processes of assessing the knowledge of students within the rating system, placement of educational and methodological complexes of disciplines, etc.

*In almost all disciplines of the EP there is a component that allows using AIS Platonus <http://platonus.kazadi.kz>, to which students have access outside the territory of the educational institution in their free time.*

Evaluation of the effectiveness and efficiency of the implementation of educational programs is



achieved through guest lectures, round tables, seminars on the coordination of a number of educational and methodological documentation, practice bases, as well as through the provision of positive reviews by employers. The criteria for the effectiveness of the implementation of educational programs is the successful passage of internships by students, their successful employment in the future.

The department "Transport construction and production of building materials", ARF, EMM participate in monitoring the implementation of the development plan for the EP. Monitoring of the EP plan is carried out by analyzing and evaluating the quality, performing educational services (external and internal audit), analyzing the implementation of the EP plan (department, dean's office, EMM), conducting a survey of graduates, students and employers (vice rector for EW, EP).

There is a provision on the conduct of internal audit, annually in September an internal audit schedule is drawn up, in accordance with which an internal audit is carried out, the results of which are reflected in the "Registration of Nonconformities" journal. It contains the following sections: the date of detection of the discrepancy, full name of the official who discovered the discrepancy, the content of the discrepancy, measures to eliminate the causes of the discrepancy with an indication of specific performers, the timing of the elimination of the discrepancy, and the results.

Questioning of students of the institute is carried out during the academic year. The number of students participating in the survey is within 80-90 students. The results of the survey are discussed at the EMS Institute. Based on the results of the survey, corrective actions are taken. The results of the "Questionnaire of the teaching staff through the eyes of students" shows that the average score of the teaching staff of KazARI is 95-98 points.

Based on the results of the survey, the dean's office makes decisions to further improve the educational process in the field of improving the quality of teaching and learning outcomes.

- The satisfaction of students with the quality and content of the educational program is determined through a survey of students. If necessary, measures are taken to eliminate the shortcomings indicated in the questionnaires of students. In order to assess satisfaction with the quality of educational programs and graduates, a survey of employers is conducted.

- The quality system of the EP is maintained by the staff of the department in working order in accordance with the requirements of regulatory documents and has become the object of regular analysis and evaluation by the leadership of the department and the Institute, the basis for planning activities and developing personnel motivation systems in accordance with the Regulations on the certification of teaching staff.

- KazARI has defined and operates processes for quality control of the EP in accordance with the main quality documents:

- Development strategy of KazARI named after L.B. Goncharov.
- Charter KazARI named after L.B. Goncharova;
- Academic policy of KazARI named after L.B. Goncharov;
- Personnel policy of KazARI them.
- L.B. Goncharova.
- Regulations on document circulation in KazARI.
- Regulations on the qualification characteristics of the positions of pedagogical workers and persons equated to them developed by KazARI named after L.B. Goncharo.

All documentation is maintained in accordance with the nomenclature of files of structural divisions and is drawn up in accordance with quality requirements. In order to analyze the implementation of the plan, the compliance of the educational process with regulatory documents, departments and the university as a whole conduct ongoing monitoring of the organization of the quality system of the educational process, which is constantly reflected in the reports provided to the Academic Council, EMC, Dean's office, etc.

#### **Analytical part**

Analyzing the content and semantic load of the standard "Information Management and Reporting" for the accredited direction, the commission notes that the institute has a system for managing information and reporting on student enrollment, academic performance, contingent movement, staffing, academic mobility of faculty members and students, etc. which is presented in regular reports at meetings of departments, administration and the Academic Council of the Institute.

The presented materials confirm the existence of a regular reporting system, which includes the effectiveness and efficiency of the departments and is based on the use of various methods of collecting and analyzing information in the context of the EP. Data are given that testify to the involvement of the teaching staff, students and staff of the university in the process.

Regular surveys of students and employers are carried out and, based on the results of their surveys / interviews, appropriate measures are taken to eliminate shortcomings.

At the same time, there are a number of issues related to this standard that have not been fully confirmed in the course of the work of the WEC.

Documents confirming the existence of documented information management processes, determining the order and ensuring the protection of information, responsibility for their functioning, reliability and systematic use of adequate information to improve the internal quality assurance system are not fully demonstrated. In addition, during the interviews, the heads of structural divisions could not explain how the collection and independent analysis of information on the activities of the structural divisions of the institute is carried out.

The website of the institute does not provide up-to-date information on the plans for the development of the educational program EP 7M07314 "Construction of roads and airfields".

Based on interviews with teaching staff, members of the EEC note that over the past two years there has been no actual opportunity for internships for teaching staff and program managers in other educational organizations implementing similar EPs, namely in the attendance format.

A survey of students conducted during the visit of the EEC IAAR showed that 84.2% are completely satisfied and 15.8% are partially satisfied with information about courses, educational programs and academic degrees.

Based on the results of interviews, familiarization with various documentation, material and technical base and information and methodological resources of the institute and department, questioning of students and teaching staff, EEC IAAR notes the following:

*Strengths / best practice for OP 7M07314 "Construction of roads and airfields"*

*- not available according to this standard*

*EEC recommendations for OP 7M07314 "Construction of roads and airfields"*

1. Before the start of the 2022/23 academic year, the university management should develop a regulation for the operational collection and analysis of information on an independent assessment of the activities of all structural divisions of the university, indicating specific actions to improve the internal quality assurance system.

2. By the end of the 2021/22 academic year, develop a plan for internships for teaching staff and program managers in other educational organizations that implement similar EPs with competitions to receive funds from the institute's budget.

*Conclusions of the EEC OP 7M07314 "Construction of roads and airfields":*

*EEC notes that according to the standard "Information Management and Reporting" 14 - satisfactory positions, 3 - suggests improvements.*

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

- ✓  *The university must define and document the procedures for the development of the EP and their approval at the institutional level.*
- ✓  *The management of the EP must ensure that the developed EP complies with the established goals, including the expected learning outcomes.*
- ✓  *The management of the EP should ensure the availability of developed models of the EP graduate, describing the learning outcomes and personal qualities.*
- ✓  *The management of the EP must demonstrate the conduct of external examinations of the EP.*
- ✓  *The qualification obtained upon completion of the EP must be clearly defined, explained and correspond to a certain level of the NSC.*
- ✓  *The management of the EP should determine the influence of disciplines and professional practices on the formation of learning outcomes.*
- ✓  *An important factor is the possibility of preparing students for professional certification.*

- ✓  *The management of the EP must provide evidence of the participation of students, teaching staff and other stockholders in the development of the EP, ensuring their quality.*
- ✓  *The labor intensity of the EP should be clearly defined in Kazakhstani credits and ECTS.*
- ✓  *The management of the EP should ensure the content of academic disciplines and learning outcomes for the level of education (bachelor's, master's, doctoral studies).*
- ✓  *The structure of the EP should provide for various types of activities corresponding to the learning outcomes.*
- ✓  *An important factor is the presence of joint EPs with foreign educational organizations.*

#### Evidence

Educational program 7M07314 "Construction of roads and airfields", implemented at the Kazakh Automobile and Road Institute named after. L.B. Goncharov were developed on the basis of 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; rules for organizing the educational process on credit technology of education, approved by the Order of the Minister of the Ministry of Education and Science of the Republic of Kazakhstan No. 152 dated April 20, 2011; model rules for the activities of educational organizations implementing educational programs of higher and (or) postgraduate education dated May 18, 2020 No. 207.

Educational program 7M07314 "Construction of roads and airfields" was compiled on the basis of a standard curriculum (scientific and pedagogical direction - 2 years; profile direction - 1.5 years, profile direction - 1 year).

The educational program is focused on learning outcomes that form professional competencies in accordance with the requirements of the labor market. Development of educational programs in KazADI them. L.B. Goncharov is carried out in accordance with the National Qualification Framework, Sectoral Qualification Framework, Dublin Descriptors, European Qualification Framework and with the Rules for the Formation of Modular Educational Programs, approved by the decision of the Academic Council protocol No. 9 of April 21, 2020.

To develop educational programs, a working group is created from the teaching staff and experts, and a program manager is appointed.

At the next stage, the teaching staff is working on the formation of EP modules, including compulsory disciplines and elective courses. For each module, the following is defined: a list of competencies formed at the end, including the key competencies of graduates, basic values, as well as professional competencies formed on the recommendations of employers, corresponding to the levels of the National Qualifications Framework and the professional standard.

The structure of the educational program of the master's program in the scientific and pedagogical direction, theoretical training, includes the study of cycles of basic, profiling university components. The DB cycle includes the study of academic disciplines and the passage of pedagogical practice and amounts to 35 academic credits. The PD cycle includes the study of academic disciplines and research practices and is 49 academic credits. NIRM is 24 academic credits, IA is 12 academic credits.

The structure of the educational program of the master's program in the scientific and pedagogical direction, theoretical training, includes the study of cycles of basic, profiling university components. The BD cycle includes the study of academic disciplines and the passage of pedagogical practice and amounts to 35 academic credits. The PD cycle includes the study of academic disciplines and research practices and is 49 academic credits. SRWM is 24 academic credits, RA is 12 academic credits.

The procedure for assessing the quality of educational programs is reflected in the Regulations on the internal system for assessing the quality of education at the Kazakh Automobile and Road Institute named after. L.B. Goncharov, approved by the Academic Council on September 28, 2021, protocol No. 3.

For each academic year, a schedule is developed for the internal system for assessing the quality of education. On the basis of the Regulations, a comprehensive plan was developed for the internal system for assessing the quality of education at the Kazakh Automobile and Road Institute named



after. L.B. Goncharov approved by the Academic Council on September 28, 2021, protocol No. 3, which contains the main activities: analysis and examination of the EP of areas of training, analysis of the state of staffing, analysis of the state of the material and technical base, analysis of the methodological support of the EP, the effectiveness of research and development teaching staff, etc. <https://kazadi.edu.kz/wp-content/uploads/2021/02/Kompleksnyj-plan-2020-2021-TSiPSM-kopiya-2.docx> и <https://kazadi.edu.kz/k-2/>.

The quality assessment of the implementation of the educational program is indirectly carried out through open classes, guest lectures and mutual attendance of classes, analysis of test papers, examination tickets, test tasks, discussion of the topics of theses and master's theses at department meetings.

Also, to assess the quality of the compiled test questions and conduct an examination, by order of the head of the department, an expert commission is created from among experienced teachers of the department. The results of checking test questions for the admission of intermediate attestation of students are documented in an examination report. Representatives of the dean's office, EMM and willing teachers of other departments attend teaching staff classes in accordance with the schedule of open classes, according to the procedure "Rules for assessing the quality of training sessions." Based on the results of open classes, a review is compiled, which evaluates the conduct of the lesson and reflects recommendations <https://kazadi.edu.kz/wp-content/uploads/2021/02/Kompleksnyj-plan-po-vnutrennej-ocenki-kachestva-obrazovaniya-v-KazADI.pdf>.

In accordance with the requirements of the Dublin descriptors and the Standard qualification characteristics of the positions of employees of enterprises of the Republic of Kazakhstan, the competencies and learning outcomes are given in the passport of educational programs.

In order to strengthen the practical component of the program, agreements were signed with the main enterprises that provide the implementation of the program with practice bases for EP students, including leading manufacturing enterprises of the regional and republican levels.

All of the above documents are adjusted annually, taking into account the opinions of all interested parties. For information support of all interested parties, including students, employers, documents are posted on the website of the Institute <https://kizami.edh.Ka/o-kazadi/>.

When developing educational and methodological support for the EP, the principle of academic freedom is observed. Elective disciplines are developed by the teaching staff, taking into account the opinion of employers, the personnel potential of the EP and the educational needs of the student. The corrected CED for the EP is annually reviewed and discussed at a meeting of the department (minutes No. 9, dated 03/14/2022), approved at a meeting of the EMC and approved by the Academic Council (minutes No. 9, dated 03/29/2022 <https://kazadi.edu.kz/wp-content/uploads/2022/03/KED-2021-2023-SAD-mag-2godu.docx>).

For the implementation of educational programs, an academic calendar, CED, MEP, PUPI, EMCD are annually developed. On the basis of these documents, the EMC EP is formed <https://kazadi.edu.kz/wp-content/uploads/2022/03/KED-2021-2023-SAD-mag-2godu.docx>.

Leading teachers and teachers-practitioners at the departments regularly hold various seminars and round tables for young teachers, undergraduates and doctoral students. For example, associate professor, Ph.D. Kiyalbay S.N., Master Esentai D.E. seminars were held on the topic: "Justification for the use of technical carbamide in the fight against winter slipperiness on roads with high speed", where representatives of various departments, undergraduates and students, Doctor of Technical Sciences, Professor A.K. Kiyalbay were present. a round table was held on the topic: "Substantiation of the design of a gritter for the distribution of bulk materials in a preheated state", as well as the use of role-playing and business games for teaching staff.

Students in accordance with the State Educational Standards pass various types of professional practices on the formation of learning outcomes: pedagogical, industrial, research (master's). Ensuring the quality of education in the areas of EP is carried out on the basis of agreements with leading industrial and scientific organizations on the organization of the practice of KazARI students at their production base.

The graduating departments of KazARI conclude appropriate agreements with practice bases in accordance with the form of a standard agreement and the rules for organizing professional practice.

There are agreements on the passage of practices (with state and non-state organizations and institutions), the base of practices is determined in accordance with the specifics of the EP and is guided by the rules for organizing and conducting professional practice, protocol No. 3 of September 28, 2021 approved by the Academic Council of KazARI.

Undergraduates, in accordance with the State Educational Standards, undergo various types of practices: pedagogical, industrial, research practices. The following enterprises and financial structures invariably remain the main partners: Asphaltobeton-1 LLP, KazdorNII JSC, KazNIPIDortrans LLP, AZMK JSC, Doris LLP, Kazdorproekt LLP, Adekodor LLP, etc.

Harmonization of the content of the educational program with the educational programs of leading foreign and Kazakh universities is carried out through participation in the EMD REMC IOC KazSACA, the Kazakh-Belgian Association and the Council for Education of the Intergovernmental Council of Road Workers, the Siberian Automobile and Road Academy (SibARI), Moscow Automobile and Road State Technical University ( MARSTU).

The monitoring system functioning at the institute includes an analysis of the quality of admission, current academic performance, residual knowledge, final certification of students, quality of teaching, satisfaction of students and employers, and professional progress of teachers.

#### ***Analytical part***

Analysis of accredited EPs for compliance with the criteria of the standard "Development and approval of an educational program" shows that the qualifications received by graduates upon completion of EP 7M07314 "Construction of roads and airfields" are clearly defined, explained to students, and correspond to a certain level of NSC. The qualification characteristic of a graduate includes the area, object, types, functions of professional activity. The website of the institute has complete information about the EP and the academic degree/qualification awarded upon its completion <https://kazadi.edu.kz/o-kazadi/> The labor intensity of accredited educational institutions is clearly defined in Kazakhstani credits and ECTS.

At the same time, the commission notes that the content of educational programs, the sequence of their implementation, the depth of development in all EPs of training require improvement in accordance with regulatory documents and labor market demands. To ensure favorable conditions for academic mobility and the transfer of students from partner universities, work is regularly carried out to harmonize and bring together the structure and content of the study program with the following universities: Howest University of Applied Sciences (Kingdom of Belgium), Modern Technical University (RF), Siberian State Automobile and Road Academy (Si6ADI), Moscow Automobile and Road State Technical University (MARI), Tashkent Institute of Architecture and Civil Engineering (TACI), Kyrgyz State Technical University of Construction, Transport and Architecture. N. Isanov, Kazakh Academy of Architecture and Construction ( KazSACA). At the same time, EEC members note that the opportunities for internal internationalization and the practice of creating joint programs are not used enough, since joint preparation by accredited EPs is not yet carried out.

The analysis of the studied documents, as well as the results of interviews with students, teaching staff, graduates and employers, led to the conclusion that it is necessary to involve students and teaching staff of the department in the management of educational programs at all stages.

The developed graduate models for accredited EP presented in modular educational programs that describe learning outcomes and personal qualities do not fully take into account the specifics of the educational program.

The work on organizing the preparation of students for professional certification in accredited EPs has not been debugged.

Questioning of the teaching staff, conducted during the visit of the EEC IAAR, showed a high assessment (53.8%) of the attention of the institute's management to the content of the EP. At the same time, the content of EP "very well" satisfies the needs of 61.5% of the teaching staff, "good" - 38.5%.

Questioning of students showed that the level of speed of response to feedback from teachers regarding the educational process is fully satisfied - 94.7%; partially - 5.3%.

Based on the results of interviews, familiarization with various documentation, material and technical base and information and methodological resources of the institute and department, questioning of students and teaching staff, EEC IAAR notes the following:

**Strengths / best practice for OP 7M07314 "Construction of roads and airfields"**

- not available according to this standard

**EEC recommendations for OP 7M07314 "Construction of roads and airfields"**

1. By the end of 2022, the leadership of the educational program should develop a plan for preparing students for professional certification and sending them to specialized certification centers.

**Conclusions of the EEC OP 7M07314 "Construction of roads and airfields":**

The EEC notes that according to the standard "Development and approval of educational programs" 12 - satisfactory positions.

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

- ✓  The PA should determine the mechanisms for monitoring and periodically evaluating 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:
  - ✓ - the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the discipline taught;
  - ✓ - changes in the needs of society and the professional environment;
  - ✓ - workload, performance and graduation of students;
  - ✓ - the effectiveness of student assessment procedures;
  - ✓ - expectations, needs and satisfaction of students with EP training;
  - ✓ - the educational environment and support services and their compliance with the objectives of the EP.
- ✓  OO, management of the EP should determine a mechanism for informing all interested parties about any planned or undertaken actions in relation to the EP.
- ✓  All changes made to the EP must be published. The management of the EP should develop a mechanism for reviewing the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society.

**Evidence**

KazARI named after L.B. Goncharov strives to meet the trends in the development of the quality of education in educational programs. All academic processes at the institute are regulated by the Academic Policy, which is posted on the corporate website <https://kazadi.edu.kz/polozhenie-kazadi/>. For continuous monitoring and ensuring the quality of educational programs, the Institute has established a Commission for the Analysis and Audit of the EP, which includes the first vice-rector, heads of structural divisions, leading teaching staff.

To improve educational programs, events are regularly carried out to collect, process and analyze assessments and recommendations from all interested parties, including representatives of industry enterprises, research organizations, employers, graduates, students, parents and applicants. The process of monitoring the opinions of stakeholders is carried out in the following forms: holding round tables, guest lectures, job fairs, open days; participation in exhibitions, conferences, invitations to scientific and methodological seminars of departments, questioning and monitoring of the achievements of graduates and students. Operational support for the collection and processing of survey data is carried out by the Education Quality Monitoring Department. Monitoring of the achievements of graduates and students is carried out by the graduating department and the dean's office.

In accordance with the procedure adopted at the institute, for each EP, coordination of work is carried out to update, improve the content of the educational program and ensure the quality of training of specialists.

Every year, once at the end of the academic year, the educational program is reviewed and updated and approved for the next academic year. The EP is regularly updated taking into account the level of development of science, culture, economics, engineering, technology and the social sphere.



To determine the disciplines that form professional competencies that correspond to global trends in higher education, the educational programs of leading universities in the near and far abroad were analyzed: Moscow Automobile and Road Construction State Technical University, Siberian Automobile and Road Institute named after. V.V. Kuibyshev, Tashkent Institute of Architecture and Civil Engineering (TACI), Kyrgyz State Technical University of Construction, Transport and Architecture. N. Isanova and others. Based on the results of this work, new disciplines were included in the educational program: Survey and design of airfields, Construction of airfields, Architectural and landscape design of highways, Modern design of construction projects.

The department, together with the dean's office, regularly conducts a sociological survey of students, teachers, and employers. Based on the results of the survey, reports and recommendations are generated to improve student satisfaction with the quality of educational services. Statistics show that more than 90% of students and employers are satisfied with the quality of professional training in accredited educational programs.

On the issue of organizing the practice of students within the framework of the EP, the department monitors the passage of practice, monitors the quality of its organization at enterprises by visiting the practice bases by responsible persons appointed by the department, as well as based on the results of written reports submitted by students. Adjustment of the EP ensures competitiveness and demand in the market of educational services, taking into account changes in the labor market, the requirements of employers and the social demand of society.

All information about the EP is posted on the university website <https://kazadi.edu.kz/o-kazadi/>. Here, interested persons can familiarize themselves with the development strategy of the EP.

#### ***Analytical part***

The analysis of the procedures for monitoring and periodic evaluation of the EP is carried out on the basis of: analysis of curricula, a catalog of elective disciplines, individual plans for students' programs, internal regulations governing the implementation of educational programs, their monitoring and evaluation; protocols of collegiate bodies and meetings of departments; interviewing and questioning students, teaching staff and stakeholders; results of monitoring the activities of support services.

This standard does not fully reflect the issues of informing stakeholders about any planned or taken actions in relation to the EP. Informing interested parties about changes in the content of the EP is of a periodic nature, however, it should be noted the need to publish changes made to the EP for wider access to all categories of interested parties.

In the course of a detailed analysis of the modular educational program 7M07314 "Construction of roads and airfields", representatives of the EEC note that the essence and content of a number of disciplines do not correspond to modern innovative achievements of science and technology in the construction industry, and research and development is not fully implemented in them. a component that is an integral part of the master's program.

Members of the EEC note the weak involvement of stakeholders in the conduct and analysis of the effectiveness of the EP, followed by a review of the content and structure of the EP in terms of increasing efficiency.

Based on the results of interviews, familiarization with various documentation, material and technical base and information and methodological resources of the institute and department, questioning of students and teaching staff, EEC IAAR notes the following:

***Strengths / best practice for OP 7M07314 "Construction of roads and airfields"***  
- not available according to this standard

***EEC recommendations for OP 7M07314 "Construction of roads and airfields":***

1. By the beginning of 2022/2023, the quality assurance service of the university should develop a documented procedure for periodic monitoring of the effectiveness of the EP, aimed at reviewing the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society.

***Conclusions of the EEC EP 7M07314 "Construction of roads and airfields":***



The EEC notes that according to the standard "Continuous monitoring and periodic evaluation of educational programs" 7 - satisfactory positions, 3 - suggests improvements.

### **6.5. Student-Centered Learning, Teaching and Assessment Standard**

- ✓  *The management of the EP should ensure respect and attention to different groups of students and their needs, provide them with flexibility in learning paths.*
- ✓  *The management of the EP should provide for the use of various forms and methods of teaching and learning.*
- ✓  *An important factor is the presence of own research in the field of teaching methods of academic disciplines of the EP.*
- ✓  *The management of the EP should demonstrate the existence of feedback mechanisms on the use of various teaching methods and the assessment of learning outcomes.*
- ✓  *The management of the EP must demonstrate the existence of mechanisms to support the autonomy of students with simultaneous guidance and assistance from the teacher.*
- ✓  *The management of the EP must demonstrate the existence of a procedure for responding to complaints from students.*
- ✓  *The PA must ensure the consistency, transparency and objectivity of the mechanism for evaluating learning outcomes for each EP, including appeal.*
- ✓  *The PA must ensure that the procedures for evaluating the learning outcomes of students of the EP correspond to the planned results and goals of the program. Criteria and evaluation methods within the EP should be published in advance.*
- ✓  *The PA should define the mechanisms to ensure the achievement of learning outcomes by each EP graduate and ensure the completeness of their formation.*
- ✓  *Assessors must be proficient in modern methods for assessing learning outcomes and regularly improve their skills in this area*

#### **Evidence**

Student-centered learning is the fundamental principle of the Bologna reforms in higher education, which implies a shift in emphasis in the educational process from teaching (as the main role of the teaching staff in the "transmission" of knowledge) to learning, as an active educational activity of the student; from the monologue presentation of educational material to the pedagogy of creative cooperation and dialogue between the teacher and the student.

According to the accredited EP, the management of the institute provides equal opportunities for students, regardless of the language of instruction, to form IET, to form experience in independently solving cognitive, communicative, organizational, moral and other problems of future professional activity.

In order to adapt students to the educational environment of the institute, the Handbook-Guide is constantly updated, containing systematized information about the internal regulations, organizational and procedural norms of the educational process. The document contains brief information about the institute and its divisions, the procedure for managing the educational process, the system for monitoring and evaluating knowledge, rights and obligations, the elimination of academic debts, the rules for the transfer and restoration of students. The interests of students in the course of learning and determining an individual educational trajectory are provided by advisors.

The adviser participates in the preparation of all necessary information materials on the organization of the educational process, presents them to the student on electronic media and assists him in compiling and adjusting the individual curriculum, controls the timely preparation and availability of methodological materials, conducts midterm and final certification in all disciplines of the EP. There is a dynamics of stability in the absolute progress of students, which indicates a sufficient supply of the educational process with personnel, methodological and material and technical resources.

The current attestation of students is recorded in the register of the work of the teacher (tutor) and attendance of students.

The results of the 1st and 2nd midterm control, winter and summer examination sessions are displayed in the rating sheets (dean's office) and entered in the AIS Platonus.

There is a dynamics of stability in the absolute progress of students (table 5.1.).

Table 5.1 - Absolute progress of students

Reporting period (academic year)	Average score %	Quality indicator,%	Absolute progress,%
2020-2021			
7M07314 "Construction of roads and airfields"	100%	100%	100%
2021-2022			
7M07314 "Construction of roads and airfields"	100%	100%	100%

Control of educational achievements of students and retake is carried out in accordance with the "Regulations on the ongoing monitoring of progress, intermediate and final certification of students in KazARI named after L.B. Goncharov.

The department has adopted a test form for conducting exams by options, and in this case, students are in absolutely the same conditions (in terms of the complexity of questions, their volume and the time it takes to prepare a response), the objectivity of assessing students' knowledge increases (the possibility of cheating decreases). According to the test tasks of the disciplines read at the department, an examination report is drawn up and an expert opinion is given on the validity and correctness of their compilation and execution.

A student who does not agree with the results of the assessment of the admission rating and / or final control has the right to file an appeal no later than the next day after the rating is set and / or the exam is held. Retaking the assessment, as well as positive (for the purpose of increasing), and unsatisfactory, according to the final control in this session is not allowed. Control of educational achievements of students and retake is carried out in accordance with the "Regulations on the ongoing monitoring of progress, intermediate and final certification of students in KazARI named after L.B. Goncharov.

Recognition of learning outcomes is carried out in accordance with the approved "Rules for organizing the educational process on credit technology of education", order of the Minister of Education and Science of the Republic of Kazakhstan No. 152 dated 04.20.2011 (as amended and supplemented as of 10.12.2018 No. 563.).

- In order to ensure equal opportunities for students at the institute, the following documents have been prepared:
- - regulation on the organization of inclusive education in the Kazakh Automobile and Road Institute named after L.B. Goncharov, approved by the Academic Council on August 29, 2020;
- - regulation on the procedure for conducting current control, intermediate and final certification of students in educational programs for inclusive education;
- - guidelines for the use of socially active and individual organizational teaching methods for persons with special educational needs and individual abilities.
- The Institute purchased computer equipment for students with visual impairments in Braille (payment order dated 12/09/2019).
- The reading room of the library is equipped with a stationary workplace for users with disabilities.
- In the 2021-2022 academic year, there are no students with special educational needs at the Institute.
- For inclusive education, the department "TC&PCM" developed:
  - - working curricula of the adapted modular educational program;
  - - catalogs of elective disciplines of the adapted educational program
  - - for the full period of study 2020-2022 in all areas;
    - adapted modular educational program "Construction of roads and airfields" for the full period of study 2020-2022 in all areas;

- a program of adapted educational and professional practice for students with disabilities in the educational program "Construction of roads and airfields";
- the procedure for conducting internships for people with disabilities in the educational programs "Construction of roads and airfields".

The website of the institute has developed a page "Inclusive education in EP", which contains links to the legislative and regulatory framework of the Republic of Kazakhstan; internal regulatory documents KazARI them. L.B. Goncharova; links to software that assists students with disabilities in mastering the EP: a screen access program with a speech synthesizer, a screen magnification program "Electronic Magnifier"; Braille text editor.

As part of the staffing of inclusive education, seminars were held: March 15-16, 2017 "Inclusive education: theory and practice of its development" (the seminar was held by Ph.D., Professor KazNPU named after Abai Movkebayeva Z.A.). The teachers participating in the seminar received certificates from the department "TC PCM" - Espaeva G.A., Bektursunova G.S.

To provide information support to students on the territory of the institute, free access to the Internet, open wireless WI-FI networks are provided, access is protected through a corporate and local network. You can get acquainted with the ongoing events through information stands, the website of the Institute, as well as the Automated Information System (AIS) Platonus.

Assessment of students' knowledge is carried out in accordance with the "Regulations on the organization of the educational process in KazARI", developed on the basis of the Model Rules for the ongoing monitoring of progress, intermediate and final certification of students in higher educational institutions and the rules for organizing the educational process on credit technology of education, approved by the Order of the Minister of the Ministry of Education and Science RK No. 152 dated 04/20/2011

Every year, to determine the satisfaction of students with the quality of teaching disciplines, a blank anonymous survey "Teacher through the eyes of students" is conducted. Grades given by students to the teacher are taken into account when calculating the individual rating score of the teaching staff. The questions of the questionnaire were compiled in order to determine the satisfaction of students with the quality of teaching of each studied discipline of each semester of the academic year and to accept proposals for improving the educational process. The results of the survey are discussed at the EMS Institute. Based on the results of the survey, corrective actions are taken. Analysis of the results of the student survey showed students' satisfaction with the quality of the implementation of the educational program (satisfied - 85%, partially satisfied - 13%, dissatisfied - 2%).

As a result of systematic actions of the institute, the conditions of study, the system of social and academic support for students have significantly improved recently. As part of the implementation of the social support program in KazARI named after L.B. Goncharov practices a flexible tuition fee schedule, provides discounts to socially unprotected students (orphans, from low-income and large families) and promotes the transfer of excellent students to rector's grants. Students who have achieved high sports results, representing the institute, region and city at national and international competitions, also receive benefits on tuition fees.

The Institute has created and effectively operates a service that registers the entire history of the student's educational achievements - the Office of the Registrar, whose main task is to assist students in achieving their main goal - obtaining education in the chosen EP with a high quality of knowledge, skills, skills and competencies. The registrar's office, together with the dean's office, departments, organizes and conducts a boundary control of students' knowledge. The results of the midterm control are entered into the rating sheet, which is transferred by the teacher to the Registrar's Office on the day of the midterm control. The transparency of the knowledge assessment procedure is ensured by posting current grades, intermediate and final results in electronic journals on the portal, video recording of exams, collective decision-making on awarding qualifications. Thus, each student can see the state of their educational achievements and discuss them with advisors, teaching staff and the leadership of the department.

The institute has formed a unified system of information and library services, which provides support for students and teachers, academic accessibility of information resources, library collections, specialized classrooms. In the learning process, students are supported through the provision of



electronic textbooks, multimedia presentations, training programs; through access via login-passwords to AIS Platonus.

When implementing accredited EPs, leading specialists from production in the direction of training are involved in lecturing, conducting practical classes, supervising practices, research work and graduation projects (works), master's, doctoral dissertations.

According to the accredited EP, the lecturers were involved:

- professor, doctor of technical sciences Teltaev B.B. – President of KazdorNII JSC;
- Director of the National Center for the Quality of Road Assets Saginov Z.S.

Table 5.1. Information on attracting practitioners from production, bases of practices in the context of EP

Information	2020-2021
<b>7M07314 "Construction of roads and airfields"</b>	
Number of practitioners involved in teaching disciplines	3
Number of practice bases	10

Educational work, implemented according to the educational programs of the EP, is an integral part of the educational process and is carried out on a planned basis, in accordance with the approved Regulations on educational work in KazARI.

The purpose of educational work with students in KazARI is to educate a comprehensively developed personality of a future competitive specialist with a higher professional education, who has a high culture, social activity, and the qualities of a patriotic citizen.

Extracurricular activities are coordinated by Vice-Rector for Educational Work Ramazan B.K. Issues of educational work are discussed at meetings of the Academic Council at least once per academic year. The work plans of the departments have sections on educational work with students.

Round tables dedicated to the Day of State Symbols of the Republic of Kazakhstan are held. The student youth of the institute enthusiastically takes part in the sports life of the university, thereby contributing to the patriotic campaign to promote a healthy lifestyle among young people. Every year, individual students and teachers of KazARI participate in a cycling marathon dedicated to World Health Day, organized jointly with the regional Center for the formation of a healthy lifestyle (HLS).

#### **Analytical part**

In general, the institute has demonstrated the systematic development and implementation of various forms and methods of teaching and learning, including the use of innovative methods, the satisfaction of students and teaching staff with methodological innovations is monitored, however, the commission notes that it is necessary to improve the availability of own research on the methodology of teaching academic disciplines with the aim of developing student-centered learning within the framework of ongoing EPs.

Also, members of the EEC note an episodic approach to the advanced training of teaching staff on organizational and pedagogical approaches to the implementation of the EP with the construction of adapted individual educational trajectories, depending on the personal interest and abilities of students.

Students express satisfaction with the level of quality of teaching, which is shown by the results of the survey - 89.5% Satisfied with the existing educational resources of the university completely - 94.7%, find it difficult to answer - 5.3%.

Students expressed high satisfaction with the objectivity of assessing knowledge, skills and other educational achievements: 94.7% were satisfied, 5.3% were partially satisfied.

Based on the results of interviews, familiarization with various documentation, material and technical base and information and methodological resources of the institute and department, questioning of students and teaching staff, EEC IAAR notes the following:

#### **Strengths / best practice for OP 7M07314 "Construction of roads and airfields"**

- not available according to this standard

#### **1. Strengths / best practice for OP 7M07314 "Construction of roads and airfields"**

- not available according to this standard

Before the start of the 2022/23 academic year, the university management is to develop a plan for

advanced training of teaching staff on organizational and pedagogical approaches to the implementation of the EP with the development of individual educational trajectories depending on the personal interest and abilities of students.

**Conclusions of the EEC OP 7M07314 "Construction of roads and airfields":**

The EEC notes that according to the standard "Student-centered learning, teaching and assessment of academic performance" 12 - satisfactory positions, 5 - suggests improvement..

6.6. Standard "Students"

- ✓  The PA must demonstrate the existence of a policy for the formation of a contingent of students in the context of the 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 management of the EP should determine the procedure for the formation of a contingent of students based on:
  - ✓ - minimum requirements for applicants;
  - ✓ - the maximum size of the group when conducting seminars, practical, laboratory and studio classes;
  - ✓ - forecasting the number of state grants;
  - ✓ - analysis of available material, technical, information resources, human resources;
  - ✓ - analysis of potential social conditions for students, incl. provision of places in the hostel.
- ✓  The management of the EP must demonstrate readiness to conduct special adaptation and support programs for newly enrolled and foreign students.
- ✓  The PA must demonstrate the compliance of its actions with the Lisbon Recognition Convention.
- ✓  The PA should cooperate with other educational organizations and national centers of the "European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers" ENIC/NARIC in order to ensure comparable recognition of qualifications.
- ✓  The management of the EP should demonstrate the existence of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education.
- ✓  The PA should provide an opportunity for external and internal mobility of students of the EP, as well as readiness to assist them in obtaining external grants for training.
- ✓  The management of the EP must demonstrate readiness to provide students with places of practice, to promote the employment of graduates, to maintain contact with them.
- ✓  The PA should provide for the possibility of providing EP graduates with documents confirming the qualifications received, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion.
- ✓  An important factor is the availability of mechanisms for monitoring the employment and professional activities of EP graduates.

**Evidence**

In the Republic of Kazakhstan, there is a model for the formation of a contingent of students, based on the principle of election by applicants and students of a higher educational institution.

The policy of forming a contingent of students in KazADI is to admit people to the number of students who are the most prepared for studying at the institute, who deliberately chose the EP, who scored the required number of points according to the results of the UNT, graduates of general secondary schools, CT graduates of technical vocational education on a paid basis, as well as specialists with diplomas for obtaining a second higher education on the basis of an interview.

Full-time bachelor's studies are carried out on the basis of general secondary, TVE, and higher education. The formation of a contingent of training using distance technology is carried out on the basis of technical vocational and higher education.

The institute conducts systematic career guidance aimed at preparing and selecting an applicant who has consciously chosen educational programs in areas of training.

The department interacts with schools and colleges of the city and the Almaty region to attract and train specialists, including during personal meetings with students and graduates, getting acquainted with information materials, and carrying out joint educational and scientific work.

Table 6. 1. The contingent of students in the context of educational programs, recruitment 2021-2022.

<b>№</b>	<b>Name of EP</b>	<b>Total</b>	<b>Grant</b>	<b>Contract</b>
1	7M07314 "Construction of roads and airfields"	33	-	33

The management of the accredited EP is guided by certain standards and principles in the policy of forming a contingent of students. As part of the EP, there is a set of applicants who have scored passing scores on the basis of the UNT and CT.

Applicants, in accordance with the results of UNT and CT, on a competitive basis, have the opportunity to become owners of a grant from the Rector of KazARI, depending on the number of points. The provision of grants and discounts for training is carried out on the basis of an analysis of the documents submitted by the applicant. The conditions for participation in the competition for a rector's grant, together with the Admission Rules, are posted on the Institute's website. Applicants have the opportunity to receive other types of discounts - if they have a certificate of participation in various competitions, when conducting career guidance work and on applications from students from low-income and / or large families.

In order to identify the effectiveness of vocational guidance activities, the department regularly monitors information about students who entered the institute from general educational institutions assigned within the framework of vocational guidance.

Table 6.2. The effectiveness of career guidance work

Academic year	Entered EP CARиА	Average score
2020-2021	24	72
2021-2022	33	75

KazARI has developed a Regulation on working with gifted students approved by the Academic Council on September 28, 2021. Work with gifted students is focused on the development of intellectual, physical, artistic, creative and communicative abilities. The goal of working with gifted students is to form a systematic vision of the process of development and support of gifted students, actualizing the needs of teachers to improve and update the practice of working with gifted students <https://kazadi.edu.kz/polozhnie-kazadi/>.

As part of the implementation of the social support program in KazARI named after. L.B. Goncharov provides discounts to socially unprotected students (orphans, from low-income and large families) and promotes the transfer of excellent students to rector's grants. For students who need a hostel, the management of the educational institution is looking for possible options for accommodating students and providing accommodation (rented hostels, apartments), while providing 50% payment by the institute for rent.

The Institute approved the "Academic Policy" (approved on October 26, 2021), which spells out the grounds for recognizing previous learning outcomes. In the "Rules for admission to study at educational programs of higher education in 2020" <https://kazadi.edu.kz/polozhnie-kazadi/> it is noted that documents in a foreign language are provided with a notarized translation into Kazakh or Russian. Documents on education issued by foreign educational organizations undergo the nostrification procedure in accordance with the procedure established by the legislation of the Republic of Kazakhstan after enrollment of persons during 1 (first) academic period of study.

The provision "Designing an educational program" states that within the framework of the training of personnel with higher and postgraduate education, various educational programs are independently developed in accordance with the National Qualifications Framework, professional standards and agreed with the Dublin descriptors and the European Qualifications Framework, with the current State obligatory standard higher and postgraduate education and the Classifier of areas for training personnel with higher and postgraduate education. A step towards the recognition of



qualifications can be considered the transition to academic credits or ECTS credits.

The practice of students is one of the most important and mandatory forms of the educational process and is aimed at consolidating and deepening theoretical knowledge, acquiring independent work skills and allowing students to assess the level of acquired competencies. The department provides students with practice places by concluding agreements with various organizations for students to undergo all types of practice. To date, 13 contracts have been concluded for students' professional practice and 10 contracts for undergraduate and doctoral students' internships.

#### **Analytical part**

The information presented in the self-report in the context of this standard was mainly confirmed during the EEC visit.

Members of the EEC notes that the academic mobility of students in accredited EPs is low. In addition, the commission of the EEC notes the lack of participation of students in competitions for external grants, international competitions. In this regard, there is an objective need to include in the plans for the development of educational programs such indicative indicators as: "participation of students in competitions for obtaining external grants for education", "participation of students in research work".

Based on the analysis of the contingent of students, it should be noted the uneven enrollment of students for the first year, which leads to instability in the workload of teachers, as well as the need to restructure educational programs in terms of attracting practice bases, etc.

As a result of the survey, 84.2% are completely satisfied with the availability of academic counseling; availability of health services 89.5%; availability of library resources -78.9%; existing educational resources - 94.7%; overall quality of study programs - 94.7%; the quality of teaching in general 89.5% of students.

Based on the results of interviews, familiarization with various documentation, material and technical base and information and methodological resources of the institute and department, questioning of students and teaching staff, EEC IAAR notes the following:

#### **Strengths / best practice for EP 7M07314 "Construction of roads and airfields"**

- not available according to this standard

#### **EEC recommendations for EP 7M07314 "Construction of roads and airfields"**

1. Before the start of the admission campaign in 2023, the university management should develop a policy for attracting applicants to the EP, indicating its uniqueness and flexibility in the implementation of the clause: "participation of students in competitions for obtaining external grants for training", "participation of students in research work".

#### **Conclusions of the EEC EP 7M07314 "Construction of roads and airfields":**

EEC notes that according to the standard "Students" 11 - satisfactory positions, 1 - suggests improvement.

#### **6.7. Standard "Teaching Staff"**

- ✓  The PA must have an objective and transparent personnel policy, including in the context of the EP, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff.
- ✓  The PA 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.
- ✓  The management of the EP must demonstrate awareness of responsibility for its employees and provide them with favorable working conditions.
- ✓  The management of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning.
- ✓  The PA should determine the contribution of the teaching staff of the EP to the implementation of the development strategy of the PA, and other strategic documents.
- ✓  The PA should provide opportunities for career growth and professional development of the teaching staff of the EP.



- ✓  *The management of the EP must demonstrate readiness to involve practitioners from relevant industries in teaching.*
- ✓  *The PA must demonstrate the motivation for the professional and personal development of EP teachers, including encouragement for the integration of scientific activities and education, the use of innovative teaching methods.*
- ✓  *An important factor is the willingness to develop academic mobility within the EP, to attract the best foreign and domestic teachers.*

**Evidence**

The teaching staff is directly involved in the training of new-formation specialists who are able to quickly adapt to dynamically changing production, as well as influencing the formation of the region's innovative potential and the effectiveness of the educational process.

In KazARI, the personnel policy is carried out in accordance with the main priorities of the Development Strategy of KazARI and corresponds to modern trends in the field of work with human resources. <https://kazadi.edu.kz/wp-content/uploads/2021/02/Strategiya-KazARI-2020-2025.docx>. Employment and distribution of duties is carried out in accordance with the Personnel Policy of KazARI named after. L.B. Goncharov, Regulations on the Qualification characteristics of the positions of pedagogical workers and persons equated to them, developed by KazARI named after. L.B. Goncharov, Regulations on the recruiting system of the teaching staff of KazARI, the Charter of KazARI, internal regulations, orders and orders of the rector. -obuchajushhihsya-KazARI.pdf.

Regulations on the recruiting system of the teaching staff of the institution "Kazakh Automobile and Road Institute named after. L.B. Goncharov. developed in order to establish an effective personnel policy with the widespread use of democratic, legal and economic methods of formation, providing conditions for initiative and independence, legal and social protection of the employee, taking into account his individual abilities and professional knowledge, increasing the mutual responsibility of the parties. The institute has developed job descriptions (JD) for the head of the department and all positions of the teaching staff. Job descriptions at the beginning of the academic year are updated and all teaching staff, after familiarization, put their signatures.

The need for an accredited EP in the professional qualification level of the teaching staff is determined by the direction of training of students and licensing requirements. For the implementation of the accredited EP, persons with a professional education of the appropriate profile are involved, the level of qualification of which corresponds to the specifics of the accredited EP. Training according to the programs is carried out by the following categories of teaching staff: teachers with academic degrees and titles, senior teachers-masters. Professors, assistant professors, senior teachers-masters, senior teachers with at least 3 years of practical experience in the profile are allowed to read lectures.

Table 1. Quantitative and qualitative composition of the teaching staff in the chair «TC&PCM»

Quantitative and qualitative indicators													
№	Academician	VAK Professor, Doctor of Sciences	Ph.D.	Senior teacher, Master	Senior teacher	teacher, Master	Total teaching staff	part-timers				staffing	degree %
								prof.	PhD	Senior teach	totally		
EP 7M07314 Construction of automobile roads and airfields (1 course)													
1	0	4	8	0	0	0	12	2	2	0	4	64%	86%

Table 2. Quantitative and qualitative composition of the teaching staff in the department "TC&PCM" in the context EP.

totally	в том числе:	% full-time	Teaching staff average age
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teach.staff/ staffing	senior teacher	Sen.teac her., M.T.S.	PhD.	D.T.S.	teaching staff with academic degrees	average age	Sen.teach	ach. M.T.S.	PhD	d.T.S.
27/21	1	7	11	5	63%	47	56	44	50	67

All teachers of the department have a basic education corresponding to the disciplines taught. The selection and hiring of teaching staff is carried out on a competitive basis, in accordance with basic education and practical work experience. The share of qualified full-time teachers at the department over the past three years is more than 57%. The number of teachers leading the major disciplines of the VC is 24 people, all of them have a basic education. The degree level of teaching staff in the EP of the master's program is 100%, classes are conducted only by doctors and candidates of sciences.

Of the total number of teachers, 50% conduct classes in the state language.

The department is staffed with qualified teaching staff (according to the staffing table) for the entire period of study, the staff is mostly stable, staff turnover is 5% (dismissal of teaching staff at their own request, for family or personal reasons).

Teachers of the department actively participate in professional trainings for organizations. In 2017-2018 Ph.D. Kosenko I.N. conducted trainings (winter school) in Astana, in the BI GROUP company on the topic: - "Development of projects for the production of works", for project managers, site managers, foremen, foremen and VET employees.

In 2019-2020, teachers Kiyalbaev A.K., Espaeva G.A., Tursumbekova Kh.S., Kosenko I.N. seminars were held for employees of the National State Enterprise "National Center for the Quality of Road Assets". According to the signed memorandum of mutual cooperation with the KAD MIIR RK, Ph.D., Professor Espayeva G.A. gave lectures for employees of the Committee for Roads of the Ministry of Foreign Affairs of the Republic of Kazakhstan on the topic: "Designing roads in difficult natural conditions." Doctor of Technical Sciences, Professor Kiyalbaev A.K. gave lectures on the topic "Quality control of road construction works".

To improve teaching methods and familiarize students with modern scientific and innovative solutions, guest lectures are regularly held with the participation of representatives of various organizations: Saginov Zamir Sadykovich General Director of the RSE "National Center for the Quality of Road Assets", topic: The profession of a road builder and its prospects; Aspanbetov Daulet Abaikhanovich - Deputy General Director of the Republican State Enterprise "National Center for the Quality of Road Assets", topic: On road safety in Kazakhstan; Abenov Timur Dikhanbayevich - Deputy General Director of the Republican State Enterprise "National Center for the Quality of Road Assets", topic: Problems of digitalization of the road industry in Kazakhstan; Zheksenbekov Baurzhan Kanagatovich - head of the diagnostics department of the NCCDA, topic: Diagnostics and inspection of highways; Aitbaev E.E. - Vice-President of JSC KazdorNII, topic: New materials in construction; Khibasheva A.B. director of "Cascade AQ", topic: Application of materials from industrial waste; Sarsen K.A. Director of SKA Construction LLP, topic: "Design of building structures using LIRA-SAPR family programs; Khil A.V., Deputy General Director of Kazdorproekt, topic: Modern road design; Kumarova S. BI Group program coordinator, topic: New projects in construction Nurgozhin K. general director partner «Astana roads» Modern technologies in construction.

For internal academic mobility of the teaching staff, Ph.D., Associate Professor Belov A.G. gave a lecture at KazATK named after. M. Tynyshpaev in the discipline "Bridges and Tunnels". There were teaching staff and students of the specialty "Construction". Doctor of technical sciences Professor Kiyalbaev A.K. gave lectures for students of the specialty "Transport construction" EKSTU. Serikbaev.

Teachers of the department Doctor of Technical Sciences, Professor Kiyalbaev A.K. in 2018-2019, 2019-2020 he was appointed chairman of the final attestation commission at EKSTU. Serikbaev with a degree in transport construction. Candidate of Technical Sciences, Professor Espaeva G.A. in 2019-2020 was invited by the chairman of the final attestation commission in KazATK named after M. Tynyshpaev, specialty 6M072900-Construction.

As part of the educational program, teaching practitioners are university professors with experience in the relevant industry and part-time teachers. The selection of teachers-practitioners is carried out on the basis of qualification requirements, job descriptions and approved staffing, taking into account extensive experience in the relevant field of activity. The share of teachers-practitioners at the department "TC&PCM" is 60%.

Teachers of the department take an active part in the development of regulatory documents of KazARI named after L.B. Goncharov, as well as in contractual research works such as:

- "Development of practical recommendations and technical rules for choosing the optimal composition and concentrations of liquid anti-icing reagents for roads with a solid type of coating" for 2018-2021. (there is a patent Installation for the preparation of storage of liquid anti-icing reagents. Kiyalbaev A.K. No. 79927).

- "Development of a methodology for the preparation, use and storage of liquid anti-icing reagents to prevent slipperiness on roads in a sharply continental climate" for 2019-2023. (there is a patent Installation for the preparation of storage of liquid anti-icing reagents. Kiyalbaev A.K. No. 79927)

- "Calculation of reinforced concrete rod elements under repeated loading, taking into account the history of damage" for 2018-2019.

- "Development of optimal compositions of concrete mixtures of high mobility with fly ash from CHP-2 in Almaty for transport construction" for 2018-2020.

- "Research of "Warm asphalt concrete" with the use of special additives and subsequent monitoring with an assessment of the feasibility of implementation in the construction of roads" for 2019-2023.

Technologists (AAPT, USA), a member of the World Rheological Society (SoR, US Institute of Physics, New York), is a member of the Writers' Union and a member of the Union of Journalists of Kazakhstan.

Teachers of the department: Teltaev B.B., Asmatulaev B.A., Asmatulaev R.B., Kiyalbaev A.K., Kiyalbay S.N., Esentai D.E. are the authors of patents for the invention. The results of scientific research, publication of scientific articles and methodological developments of leading teachers are reflected in the preparation and publication of monographs, textbooks and teaching aids in conjunction with the initiative theme of the department, which also ensure the quality of the implementation of the EP in the field of study "Architecture and Construction". For 2016-2020 the leading teachers of the department published works, the number is indicated in table 7.3.

Table 7.3 Scientific publications of the teaching staff in the department "TC&PCM" for the period 2017-2022.

<b>Publications: with non-zero impact factor, etc.</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020/ 2021</b>	<b>2021/ 2022</b>
WoS, Scopus	13	18	10	11	6
RSCI	2	3	2	3	2
KKSON	2	11	13	3	3
university journals and other publications of the Republic of Kazakhstan	12	14	21	18	12
Patents, AS	2	10	2	2	2
Textbooks, teaching aids	6	4	3	2	2
Monographs	1				
<b>Total</b>	<b>35</b>	<b>60</b>	<b>51</b>	<b>39</b>	<b>27</b>

The teaching load of teachers is determined on the basis of the calculation of teaching load hours for the department approved by the order of the rector, compiled according to the contingent of students and the number of disciplines. Teachers are assigned a differentiated workload for the academic year, depending on their qualifications and position, in accordance with the norms for calculating the teaching load approved by the rector of KazARI.

A clear mechanism for monitoring the implementation of all types of planned workload by teachers, the schedule of classes and the schedule for conducting the SROP confirm the uniform



distribution of the workload. The annual and semester workload of teachers and its implementation is recorded in an individual plan, annual reports of the teacher and the department as a whole, in reports on the workload.

- The quality of filling in the journal, the completeness and reliability of the work performed and recorded in it is checked by the head of the department and the SEM.
- Setting clear requirements for the format of the implementation of the educational program, building a system of material and moral incentives for work, the leadership of KazARI constantly monitors the quality of teaching and the use of innovative teaching methods. Monitoring the quality of teachers' activities is carried out by:
  - - certification of teaching staff and employees;
  - - assessment of the quality of the classes;
  - - personal conversation with the leaders of KazARI and departments.

Attestation of teaching staff in accordance with the "Regulations on the certification of teaching staff of KazARI" <https://kazadi.edu.kz/polozhenie-kazadi/> is carried out at the end of the academic year. The assessment of the quality of the classes carried out is carried out through control visits to the classes by representatives of the department, the methodological commission of the faculty, the educational and methodological council of KazARI. Evaluation criteria are primarily related to knowledge of the subject, mastery of teaching methods and interactive teaching methods, the ability to structure a lesson and rationally use study time. To determine the level of satisfaction of domestic consumers and the degree of quality of educational services provided, the dean's office conducts a survey of students, staff and teachers. As practice shows, students are quite critical in assessing the quality and often rightly point out the problematic aspects of the organization of the educational process. The cumulative results of the internal evaluation are taken into account, as a rule, when conducting a competitive selection and making decisions on incentives.

The results of these activities serve as the basis for deriving the faculty rating, which is taken into account when extending employment contracts, promotion and material incentives for employees. In the 2020-2021 academic year, the teaching staff rating of the accredited EP ranged from 70 to 100 points, 5 teachers were at the 1st stage (from 90 to 100 points), 10 teachers were at the 2nd stage (from 75 to 89 points), at the 3rd stage (from 70 to 74 points) - there were 6 teachers serving accredited EPs.

Information about the qualifications (portfolio) of each teacher is posted on the website of the university in the section "Transport construction and production of building materials" of products and structures <https://kazadi.edu.kz/k-2/>. This information is available to any visitor to the site. In addition, students and KazARI can get information about teaching staff in AIS Platonus. Information about the position, the academic degree of the teacher - master, the list of his educational and scientific publications, the presentation of training courses are formed by the departments and always reflect the current state of affairs.

In accordance with the Law of the Republic of Kazakhstan "On Education", all teachers undergo advanced training at least once every 5 years, including in EP at the republican and international levels. The teaching staff of the institute is trained in advanced training courses annually in specialized training centers of the Republic of Kazakhstan. Certificates and certificates of advanced training of teaching staff are placed in the AIS Platonus and in the personal files of employees.

The advanced training of teaching staff also takes place in the form of participation in scientific and methodological seminars, conferences, exhibitions and other events, in the form of research work, training in the magistracy.

Every year a program and a plan for advanced training of teaching staff are developed, in order to meet the requirements of stakeholders and further improve the educational process, advanced training of teaching staff is carried out at the expense of the institute, as well as at its own expense.

For the period from 2016 to 2022, 27 teachers completed various advanced training programs. As part of the effective use of the potential of employees and ensuring the quality of the services provided, a survey of teaching staff is regularly conducted in order to identify the degree of satisfaction with their working conditions, relations with colleagues and management. The dean's office is responsible for organizing the survey and processing the results.

The results of the survey are provided to the university management and allow them to make

operational and strategic decisions to improve working conditions. Every year, the questionnaires are adjusted and changed depending on emerging new areas or problematic issues..

### ***Analytical part***

In general, we can conclude that the activities of the department "Transport construction and production of building materials" meet the criteria of the standard. Teachers are aware of the change in their role in connection with the transition to student-centered learning. The teaching staff serving the EP makes a significant contribution to the implementation of the development strategy of the university. An opportunity for career growth and professional development of the teaching staff of the EP has been created.

However, the Commission notes that the following issues regarding this standard are not fully reflected.

The Institute encourages the integration of scientific activity and education and the application of innovative teaching methods by teaching staff. At the same time, the commission notes the insufficient level of use of innovative teaching methods and the use of information and communication technologies by teaching staff in the educational process.

During the visit, EEC experts on this standard found that the department has an insufficient level of academic mobility of teaching staff, which may lead to a lack of access to the resources of third-party higher education institutions. In this regard, the management of accredited EPs needs to increase the level of academic mobility of teaching staff and research work.

However, EEC members note that the university management has ensured a high level of corporate culture, which makes it possible to actively use the accumulated human resources potential for a breakthrough growth in the quality of the educational program.

The leadership of the EP does not sufficiently present an action program aimed at developing young teaching staff with specific examples, and there is also not enough information on developing a plan to attract foreign and leading domestic scientists.

*The EEC Commission notes that it is necessary to regularly and timely update and expand the range of modern software used in the educational process, as well as the need to develop a plan to attract foreign and leading domestic scientists for the implementation and development of this EP.*

As a result of the survey, the teaching staff are completely satisfied with the opportunities provided by the university for career growth - 38.5%; the opportunities provided by the university for the professional development of teaching staff - 46.2%; the sufficiency and availability of the necessary scientific and educational literature in the library - 23.1%; organization of medical care and disease prevention at the university - 53.8% of teaching staff.

According to the results of interviews, familiarization with various documentation, material and technical base and information and methodological resources of the institute and department, questioning of students and teaching staff, EEC IAAR notes the following:

### ***Strengths / best practice for OP 7M07314 "Construction of roads and airfields":***

*The management of the university has provided a high level of corporate culture, which makes it possible to actively use the accumulated human resources potential for a breakthrough growth in the quality of the educational program.*

### ***EEC recommendations for OP 7M07314 "Construction of roads and airfields»***

1. 1. Until 09/01/2022, the management of the EP develop a plan for monitoring the applied and implementation of modern innovative teaching methods with advanced training for teaching staff.
2. 2. By January 1, 2023, the unit responsible for quality assurance should develop a monitoring procedure for updating and expanding the range of modern software used in the educational process.
3. 3. University management to develop a medium-term plan to attract foreign and leading domestic scientists until 2025.

### ***Conclusions of VEC OP 7M07314 "Construction of roads and airfields»:***

The EEC notes that according to the standard "Teaching staff" 1 - a strong position, 7 - satisfactory, 2 - suggests improvements.

#### 6.6. Standard "Educational resources and student support systems"

- ✓  The PA must guarantee a sufficient number of educational resources and student support services that correspond to the objectives of the EP.
- ✓  The PA 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 the EP (adults, employed, foreign students, as well as students with disabilities).
- ✓  The management of the EP 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 specifics of the EP, including:
  - ✓ - technological support for students and teaching staff in accordance with educational programs (for example, online learning, modeling, databases, data analysis programs);
  - ✓ - library resources, including a fund of educational, methodical and scientific literature on general education, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases;
  - ✓ - examination of the results of research, final works, dissertations for plagiarism; access to educational Internet resources;
  - ✓ - functioning of WI-FI on the territory of the educational organization.
- ✓  PA 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 respective industries.

#### **Evidence**

The material and technical base of EP 7M07314 "Construction of roads and airfields" allows for all types of practical work, disciplinary and interdisciplinary training, practical and research work of students that comply with sanitary and fire rules and regulations.

The total area of the territory of KazARI is 5.9590 hectares, on which an educational and sports complex with modern classrooms and laboratories, as well as dormitories, was allocated for construction in the Alatau district of Almaty and put into operation. June 2019 put into operation a sports complex, football field, assembly hall.

Currently, there are 11 specialized classrooms and laboratories, 6 lecture halls located in the educational building of the institute and in the branches of the departments at the enterprises and financial structures of Asphaltobeton-1 LLP, AZMK LLP. Total area - 2703 sq.m, educational area - 23.15 sq.m.

On the basis of enterprises and organizations that are members of the NIOPC, branches of the departments have been created, where training sessions are held in specialized disciplines, as well as production and pre-diploma practices.

- 19 teachers are engaged in training and graduation of masters at the Department of Transport Construction and Production of Building Materials, including 4 doctors of technical sciences, 1 doctor of PhD, 11 candidates of technical sciences, 3 senior teachers-masters of technical sciences.
- The department has a training base in JSC "Asphaltobeton" and LLP "AZMK" for professional practices. The teachers of the department, together with the KazARI Technopark, take an active part in research work on the development of tender projects, which include:
  - "Development of practical recommendations and technical rules for choosing the optimal composition and concentrations of liquid anti-icing reagents for roads with a solid type of coating" for 2018-2021. (there is a patent Installation for the preparation of storage of liquid anti-icing reagents. Kiyalbaev A.K. No. 79927)
  - "Development of a methodology for the preparation, use and storage of liquid anti-icing reagents to prevent slipperiness on roads in a sharply continental climate" for 2019-2023. (there is a patent



- Installation for the preparation of storage of liquid anti-icing reagents. Kiyalbaev A.K. No. 79927)
- - "Calculation of reinforced concrete rod elements under repeated loading, taking into account the history of damage" for 2018-2019.
  - - "Development of optimal compositions of high-mobility concrete mixtures with fly ash from CHPP-2 in Almaty for transport construction" for 2018-2020.
  - - "Research of "Warm asphalt concrete" with the use of special additives and subsequent monitoring with an assessment of the feasibility of implementation in the construction of roads" for 2019-2023.
  - - The institute has information technology classrooms equipped with audio-video and multimedia equipment. In the educational building of the institute there is a first-aid post equipped with modern medical equipment, inventory, medicines, disinfectants.

- - General and educational premises, educational and scientific laboratories, computer classes, reading rooms comply with sanitary and epidemiological standards and requirements. The conditions of the working environment comply with the requirements of the Sanitary Rules "Sanitary and epidemiological requirements for educational facilities", approved by order of the Minister of National Economy of the Republic of Kazakhstan dated August 16, 2017 No. 611 (with additional changes dated August 28, 2020 No. QR DSM-98/2020), sanitary rules "Sanitary and epidemiological requirements for working conditions with sources of physical factors (computers and video terminals) that affect a person", approved by order of the Minister of National Economy of the Republic of Kazakhstan dated January 21, 2015 No. 38. All classrooms and laboratories are equipped with the necessary modern equipment and inventory.

The institute has a support service for students and teaching staff. There is a separate hotline for full-time students and a hotline for teaching staff and employees; there is a service of the Commissioner for Ethics and Combating Corruption Risks.

The institute has created conditions to meet educational, personal and career needs: an office registrar, a scientific library, information and research centers, a canteen, a medical center, gyms, student clubs. For various events there is an assembly hall for 70 seats. An office has been allocated for the CUA, which oversees the work of student associations. There is a gym, a mini-football field, a bike path used for sports sections, physical education, mass sports and sports and recreational activities.

- During the interviews with the students of the institute, a high degree of satisfaction with the Wi-Fi network in the buildings and the hostel was voiced.
- In order to create conditions for revealing the personal potential of students and organizing leisure activities, student clubs operate at the institute (based on the Regulations of the clubs) on interests, including:
  - student self-government bodies - the Student Trade Union Committee, headed by student activists;
  - amateur art circles - 5 (CMS, dance circles "Asel" and Hip-Hop, choir, etc.), whose leaders are both university teachers and involved professionals.

*Web-portal.* The web-portal of the Institute contains information on the sections: About the Institute, Departments, News, Administration, NPA, Education, IAS PLATON, contacts.

On the site you can get information about the EP: science and innovation, international cooperation, brief information about the teaching staff, CEDs, MOPs, etc. CEDs of educational programs of accredited specialties, attached to the website of the institute in the public domain, are updated in a systematic manner (<https://kazadi.edu.kz/o-kazadi/#>). The information in the tabs is up to date.

*Fond of Library.* The library is located in the main building. The total area of the library premises is 216 sq.m., including the book depository - 114 sq.m. The number of points of issue - 2. The number of seats in the reading rooms - 52. The library is open to readers during the working week from 9.00 to 18.00. The structure of the library includes: 4 subscriptions and 2 reading rooms (Table 1).

Table 1 - Number of reading rooms, number of seats in them



№	Premises name Area, sq.m Quantity	Premises name	Premises name
		Area, sq.m Quantity	Area, sq.m Quantity
1	Reading room №1. KazARI	102	52
	Subscription department and book depository:		
2	Subscription department of the study building No. 1 of KazARI	60	
3	Subscription department Building №1 KazARI	24	
4	218 office.	30	
<b>Total:</b>		<b>216</b>	<b>52</b>

The library fund is 31133 copies of books, of which in the state language - 15903 copies. Fund of educational literature 17809 p.u. Scientific fund 13255 p.u. Fund of fiction 69 items Electronic editions 803. m.s.

Provision of disciplines of all specialties KazARI them. L.B. Goncharov educational, educational and methodical literature, including on electronic and magnetic media, meets the qualification requirements for educational activities. The availability of books in the context of specialties is presented in Table 2.

Table 2 - Book fund, including the fund of educational, scientific literature on general educational basic and major disciplines

№	EP	Educational literature (unit)		Scientific literature (unit)		Based on one teaching		Bcero
		in Kazakh	in Russian	in Kazakh	in Russian	in Kazakh	in Russian	
		1	7M07314 "Construction of roads and airfields"	28	86	21	34	

The information and library fund is equipped with official sources, reference and bibliographic manuals, special standards (Kazakhstan, international), instructive and regulatory documentation, as well as the necessary legislative documentation on the EP profile.

*Audiences and laboratory facilities of the department.* To organize the educational process, research work on accredited EPs and create appropriate conditions in the areas of training bachelors and postgraduate professional education (magistracy), the teaching staff use the following resources (table 8.3)

Table 3. Specialized classrooms and laboratories used in the implementation of the EP of the department "Transport construction and production of building materials"»

Study rooms Total area of premises (sq. m)	Study rooms Total area of premises (sq. m)	Number of seats	Logistics
100 Library	51,8		7 PCs, 2 printers
103 First aid post	32		1-PC, MFP-1
105 Lecture Hall	98,6	76	projector + screen
101 Laboratory "Building materials"	15,8	6	Stands, scales, ductility meter,
102 Laboratory "Building materials"	34,1	13	projector + screen, stands, flasks,
108 Language lab	27,4	10	blades, rocks, asphalt concrete

			samples
204 Audience	54,2	30	projector + screen, PC-1, stands
303 Computer class	42	19	PC-11, printer
211 Diploma design office	18,7	7	stands, 2pcs, 2 printers
301 Computer class	38,3	15	PC-7, stands
207 Department of Transport construction and production of building materials	32		PC-3, MFP-2, Printer-3
501 Information technology	74	41	PC-17
502 Student Design Bureau	47	21	PC-7, Projector + screen
508 Survey and design of highways	57,3	31	stands
504 Geodesy	74,1	41	Stands, PC1, projector + screen
509 Audience	35,1	14	stands
006 Bitumen Testing Laboratory	16,5	2	Stands, devices
009 "Test Lab"	60,7	16	Stands, devices
Mobile road laboratory	63	4	
012 Auditorium Construction and	33,2	12	stands

*Branches of the department*

Students of accredited EPs have the opportunity to gain practical skills at the branches of departments of partner organizations:

Table 4. Organization of the educational process and research activities at the branches of the departments of partner enterprises

<b>Organization, contract №***</b>	<b>EP</b>	<b>Pledged modules, disciplines</b>
Asphaltobeton 1 LLP Contract No. 131/19 dated 12/06/2019	Construction of roads and airfields	Modern building materials
AZMK LLP	Construction of roads and airfields	Experimental and theoretical construction methods
Agreement No. 131/19 dated 06.12.2019	Construction of roads and airfields	Finite element method in construction problems

*professional practice*

Students and undergraduates have the opportunity to take all types of internships in various enterprises of the road industry, transport and construction. Contracts were signed for all types of internships: AZMK LLP, Asphaltobeton LLP, Asema Stroy Company LLP, KazTransGasAymak JSC, Almatyinzstroy LLP, AMANHOLDING LLP, KazNIPi DorTrans LLP, Doris LLP, KazDorNII JSC, Sapa SZ LLP, etc.

Students have the opportunity to practice at their places of residence. Other corporate partners include such third-party organizations as KazdorNII JSC and other companies.

For the passage of professional practices for students, there are cooperation agreements with the following enterprises and educational organizations: for the passage of professional practices for

students, there are bilateral cooperation agreements, details of which are given in Table 8.5.



Table 8.5 - Organization of the passage of professional practices for students of accredited EPs.

EP	Organization, contract No., term of the contract, order No.
7M07314 "Construction of roads and airfields"	ABS GROUP LLP No. 16-90 dated September 10, 2019, valid until December 31, 2023. JSC "KazdorNII" No. 216-97 dated September 10, 2019, valid until September 10, 2024. City Road Center LLP No. 16-94 dated September 10, 2019, valid until December 31, 2023. SARNUR LLP No. 16-91 dated September 10, 2019, valid until December 31, 2023. SC-Construction LLP No. 16-93 dated September 10, 2019, valid until December 31, 2023. Adekodor LLP No. 16-87 dated September 10, 2019, valid until December 31, 2023. Doris LLP No. 16-92 dated September 10, 2019, valid until December 31, 2023. Kazernprom LLP No. 16-88 dated September 10, 2019, valid until December 31, 2023. LLP "KASKAD-AQ" No. 16-89 dated September 10, 2019, valid until December 31, 2023. Elesan LLP No. 16-97 dated September 10, 2019, valid until December 31, 2023.

*Anti-plagiarism.* The Institute installed and put into operation the Antiplagiarism software in order to improve the quality of the organization and efficiency of the educational process and control the independent performance of written work by students, as well as the observance of intellectual property rights.

*Analytical part.* KazARI has created a fund of educational, methodical and scientific literature on general education, basic and major disciplines of educational programs on paper and electronic media; renewal of literature funds in accordance with the norms determined by qualification requirements for licensing. The Institute concluded a sublicense agreement dated 04.02.2021. on the transfer of license rights for the use of software from Sole-enterprise Demisheva L.V. to use the software of the laboratory complex "Hydraulics".

At the same time, in the course of interviewing focus groups, having studied the material and technical support of the educational organization and infrastructure, the commission of the EEC noted the need to provide for the purchase of additional modern software that will be used in the development of accredited educational programs.

In addition, EEC experts noted the need to create specialized laboratories for students of OP 7M07313 "Construction of roads and airfields" to master disciplines related to the design of building structures using modern software and material and technical equipment.

Taking into account the concluded agreements for the passage of all types of professional practices, the commission of the EEC noted the need for targeted work to further expand the base of partner enterprises and introduce a system of dual training on the basis of partner enterprises for accredited educational programs of the cluster.

During the interview with the students of the institute, a high degree of satisfaction with the Wi-Fi network in the buildings and the hostel was voiced.

However, EEC experts note the poor functioning of the WI-FI coverage area on the territory of the university, and a survey of faculty members revealed the same feedback.

EEC experts got acquainted with the equipment of the material and technical base for the implementation of accredited EPs and came to the conclusion that it is necessary to develop a plan for re-equipping the premises and classrooms of the university with inclusive education.

Questioning of students showed positive data on the provision of educational materials in the learning



process - 94.7%, the activities of the financial and administrative services of the educational institution - 84.2%, the availability of health services - 89.5%, the level of accessibility of library resources - 89.5% , existing educational resources of the university - 94.7%.

Based on the results of interviews, familiarization with various documentation, material and technical base and information and methodological resources of the institute and department, questioning of students and teaching staff, EEC IAAR notes the following:

**1. Strengths / best practice for EP 7M07314 "Construction of roads and airfields"**

2. - not available according to this standard

**3. EEC recommendations for EP 7M07314 "Construction of roads and airfields"**

Before the beginning of the 2022/23 academic year, the management of the university should develop a plan for the modernization of logistics, taking into account the possibility of expanding the network of branches of departments at the production bases of industrial partners.

4. Until 09/01/2022, the university management should consider the possibility of building an accessible Wi-Fi network on the territory of the university.

5. Until 2024, the university management should integrate modern road design software, such as IndorSoft, IndorCAD and others, into the educational process of mastering the EP.

6. By 2023, the management of the university should develop a plan for equipping the premises and classrooms of the university with the means of inclusive education to ensure "Accessible environment.

**Conclusions of the EEC EP 7M07314 "Construction of roads and airfields":**

*The EEC notes that according to the standard "Educational resources and student support systems" 10 - satisfactory positions, 3 - suggests improvements*

**6.9 Public Information Standard**

- ✓  *The PA must publish reliable, objective, up-to-date information about the educational program and its specifics, which should include:*
- ✓ *- expected learning outcomes of the implemented educational program;*
- ✓ *- qualifications and (or) qualifications that will be awarded upon completion of the educational program;*
- ✓ *- approaches to teaching, learning, as well as a system (procedures, methods and forms) of assessment;*
- ✓ *- information about passing scores and learning opportunities provided to students;*
- ✓ *- information about employment opportunities for graduates.*
- ✓  *The management of the EP should provide for a variety of ways to disseminate information, including the media, information networks to inform the general public and interested parties.*
- ✓  *Informing the public should include support and explanation of national programs for the development of the country and the system of higher and postgraduate education.*
- ✓  *EP must demonstrate the reflection on the web resource of information characterizing it as a whole and in the context of educational programs.*
- ✓  *An important factor is the availability of adequate and objective information about the teaching staff of the EP.*
- ✓  *An important factor is informing the public about cooperation and interaction with partners within the EP.*

**Evidence**

In order to inform the public and all interested parties, the policy of the department is aimed at constantly providing students with high quality educational services through their continuous

improvement, through the introduction of innovative technologies in the educational process and effective feedback from students, teaching staff, employees, graduates and employers.

The institute has determined the procedure for publishing news on the main page and in sections of the institute's website. The site, in addition to the general requirements for content, sets out the rules for the functioning of interactive applications, managing the news block, and the security policy of the information *site*. KazARI systematically informs the general public about its activities, including the Department of Transport Construction and Production of Building Materials, through the following forms: the official website of the institute <https://kazadi.edu.kz/o-kazadi/> (in three languages), pages of the institute in social networks Facebook and Instagram, there is an information system for distance learning (distance educational technologies) <https://kazadi.edu.kz/dot/>, etc.

Information is updated on a regular basis, normative materials, modular educational programs are presented, as well as news and events of the department according to the plan of educational work of the institute.

The institute's website has a rector's blog, where students can leave their wishes and comments, and have the opportunity to ask the rector a question directly.

The rector's blog provides an opportunity for feedback for students and their parents, employees, teaching staff, employers, and members of the public.

There are information stands at the departments, where photos and information about teachers, class schedules, requirements for the design of diploma papers, also stands about educational work, stands about graduates of graduating departments, etc. are posted.

All electronic publications meet modern requirements, which makes it possible to work on the Internet and in the corporate network.

The website of the institute provides its readers with the necessary information in a timely manner, is useful and is an effective tool for finding information. On the site you can find information about the departments, where you can get information about the history and composition of the departments, about scientific work, about the cooperation of departments with universities and foreign research centers, there is also information about educational programs.

Assessment of satisfaction with information about the activities of the university, the specifics and progress of the EP is carried out annually through questionnaires, surveys, feedback, as well as through the rector's blog. Information on employment opportunities for graduates of the EP is available on the website. As effective tools for informing the public, to create an image of an open educational institution, various media resources are used, press conferences, briefings are held, business contacts are activated with the editorial offices of newspapers, magazines, radio, television.

For the real positioning of KazARI, in addition to traditional resources, image methods of presenting information are used (rector's speech (annual reports)), speeches by leading teachers at conferences, placement of teaching staff articles. Informing the general public is carried out through interaction with the media, open days, job fairs, alumni meetings, career guidance events. The publication of materials about all the important events taking place in the life of the university takes place through the website, the newspaper of the university, and is also covered in republican and regional newspapers and television.

#### *Analytical part*

An analysis of the information provided on the Institute's website showed that KazADI places complete and reliable information about its activities, rules for admission of applicants, educational programs, terms and form of training, contact and other information useful for applicants and students.

At the same time, the experts noted that the official website of the institute <https://kazadi.edu.kz/o-kazadi/> does not fully provide information in English (the main tabs are non-working). We also recommend developing a regulation for prompt updating of information on the website of the university.

Based on the results of interviews, familiarization with various documentation, material and technical base and information and methodological resources of the institute and department, questioning of students and teaching staff, EEC IAAR notes the following:

***Strengths / best practice for EP 7M07314 "Construction of roads and airfields"***

*- not available according to this standard*

***EEC recommendations for EP 7M07314 "Construction of roads and airfields"***

1. By September 1, 2022, the departments responsible for ensuring quality and informing the public should develop a regulation for the operational updating of information on the university website, taking into account the maintenance of content in three languages (national, Russian and English).

***Conclusions of the EEC EP 7M07314 "Construction of roads and airfields":***

*EEC notes that according to the standard "Informing the public" 11 - satisfactory positions, 1 - suggests improvements.*



**(VII) OVERVIEW OF STRENGTHS/BEST PRACTICE FOR EACH STANDARD**

**for EP 7M07314 "Construction of roads and airfields":**

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

*- not available according to this standard*

**Information Management and Reporting Standard**

*- not available according to this standard*

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

*- not available according to this standard*

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

*- not available according to this standard*

**Student-Centered Learning, Teaching and Assessment Standard**

*- not available according to this standard*

**Standard "Students"**

*- not available according to this standard*

The management of the university has ensured a high level of corporate culture, which makes it possible to actively use the accumulated human resources potential for a breakthrough growth in the quality of the educational program.

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

*- not available according to this standard*

**Public Information Standard**

*- not available according to this standard*



## **(VIII) OVERVIEW OF RECOMMENDATIONS FOR IMPROVING QUALITY FOR EACH STANDARD**

### ***for EP 7M07314 "Construction of roads and airfields": Standard "Management of the educational program"***

By the beginning of the 2022/23 academic year, the head of the EP should adjust the EP development plan, indicating achievable indicators, taking into account the needs of all stakeholders (employers, students, teaching staff, graduates, etc.), as well as reflecting the individuality and uniqueness of the EP, consistent with national development priorities and development strategy of the educational organization.

5. By the beginning of the 2022/23 academic year, the university management should develop a plan and regulations for updating the EP, taking into account the current level of development of science and technology, as well as with the mandatory involvement of interested parties (employers, students, teaching staff, graduates, etc.).

6. By the end of 2022, develop a documented risk management procedure.

7. By the end of 2022, develop a plan for introducing innovations and monitoring the implementation of innovations being introduced within the EP and at the university level.

#### **Information Management and Reporting Standard**

1. Before the start of the 2022/23 academic year, the university management should develop a regulation for the operational collection and analysis of information on an independent assessment of the activities of all structural divisions of the university, indicating specific actions to improve the internal quality assurance system.

2. By the end of the 2021/22 academic year, develop a plan for internships for teaching staff and program managers in other educational organizations that implement similar EPs with competitions to receive funds from the institute's budget.

#### **Стандарт «Разработка и утверждение образовательных программ»**

1. By the end of 2022, the management of the educational program should develop a plan for preparing students for professional certification and sending them to specialized certification centers.

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

1. By the beginning of 2022/2023, the quality assurance service of the university should develop a documented procedure for periodic monitoring of the effectiveness of the EP, aimed at reviewing the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society.

#### **Student-Centered Learning, Teaching and Assessment Standard**

4. Prior to the start of the 2022/23 academic year, the university management should develop a plan for improving the qualifications of teaching staff on organizational and pedagogical approaches to the implementation of the EP with the development of individual educational trajectories, depending on the personal interest and abilities of students.

#### **Standard "Students"**

Before the start of the admission campaign in 2023, the university management should develop a policy for attracting applicants to the EP, indicating its uniqueness and flexibility in the implementation of the clause: "participation of students in competitions for obtaining external grants for training", "participation of students in research work".

#### **Standard "Teaching Staff"**

4. Until 09/01/2022, the management of the EP develop a plan for monitoring the applied and implementation of modern innovative teaching methods with advanced training for teaching staff.

5. By 01/01/2023, the unit responsible for quality assurance should develop a monitoring procedure for updating and expanding the range of modern software used in the educational process.

6. The management of the university should develop a medium-term plan to attract foreign and leading domestic scientists until 2025.

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

4. Before the beginning of the 2022/23 academic year, the university management should develop a plan for the modernization of logistics, taking into account the possibility of expanding the network of branches of departments at the production bases of industrial partners.

5. Until 09/01/2022, the university management should consider the possibility of building an accessible Wi-Fi network on the territory of the university.

6. Until 2024, the university management should integrate modern road design software, such as IndorSoft, IndorCAD and others, into the educational process of mastering the EP.

7. By 2023, the management of the university should develop a plan for equipping the premises and classrooms of the university with the means of inclusive education to ensure "Accessible environment.

**Public Information Standard**

Before the start of the admission campaign in 2023, the university management should develop a policy for attracting applicants to the EP, indicating its uniqueness and flexibility in the implementation of the clause: "participation of students in competitions for obtaining external grants for training", "participation of students in research work".

**Standard "Teaching Staff"**

4. Until 09/01/2022, the management of the EP develop a plan for monitoring the applied and implementation of modern innovative teaching methods with advanced training for teaching staff.

5. By 01/01/2023, the unit responsible for quality assurance should develop a monitoring procedure for updating and expanding the range of modern software used in the educational process.

6. The management of the university should develop a medium-term plan to attract foreign and leading domestic scientists until 2025.

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

4. Before the beginning of the 2022/23 academic year, the university management should develop a plan for the modernization of logistics, taking into account the possibility of expanding the network of branches of departments at the production bases of industrial partners.

5. Until 09/01/2022, the university management should consider the possibility of building an accessible Wi-Fi network on the territory of the university.

6. Until 2024, the university management should integrate modern road design software, such as IndorSoft, IndorCAD and others, into the educational process of mastering the EP.

7. By 2023, the management of the university should develop a plan for equipping the premises and classrooms of the university with the means of inclusive education to ensure "Accessible environment.

**Public Information Standard1.**

By September 1, 2022, the departments responsible for ensuring quality and informing the public should develop a regulation for the operational updating of information on the university website, taking into account the maintenance of content in three languages (national, Russian and English).

**(VII) OVERVIEW OF THE RECOMMENDATION FOR THE DEVELOPMENT OF  
EDUCATIONAL ORGANIZATION**

not available



**(IX) RECOMMENDATION TO THE ACCREDITATION BOARD**

The members of the EEC came to the unanimous opinion that the accredited OP 7M07314 "Construction of roads and airfields" is recommended for accreditation for a period of 3 years.





**Annex 1. Evaluation table "CONCLUSION OF THE EXTERNAL EXPERT COMMISSION"**

**EP 7M07314 "Construction of roads and airfields"**

№ п\п	п\п	Criteria for evaluation	Position of the educational organization			
			strong	Satisfactory	Assumes improvement	Unsatisfactory
<b>Standard "Management of the educational program"</b>						
1	1.	The university must demonstrate the development of the goal and development strategy of the EP based on the analysis of external and internal factors with the wide involvement of various stakeholders		+		
2	2.	The quality assurance policy should reflect the relationship between research, teaching and learning		+		
3	3.	The university demonstrates the development of a culture of quality assurance		+		
4	4.	Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint/double-degree education and academic mobility		+		
5	5.	The management of the EP ensures the transparency of the development plan for the development of the EP based on an analysis of its functioning, the real positioning of the university and the focus of its activities on meeting the needs of the state, employers, stakeholders and students		+		
6	6.	The EP management demonstrates the functioning of the mechanisms for the formation and regular revision of the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP			+	
7	7.	The management of the EP should involve representatives of stakeholder groups, including employers, students and teaching staff in the formation of a development plan for the EP			+	
8	8.	The management of the EP must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national development priorities and the development strategy of the educational organization			+	
9	9.	The university must demonstrate a clear definition of those responsible for business processes within the framework of the EP, the distribution of staff duties, and the delimitation of the functions of collegial bodies		+		

10	10.	The management of the EP ensures the coordination of the activities of all persons involved in the development and management of the EP, and its continuous implementation, and also involves all interested parties in this process			+	
11	11.	The EP management must ensure the transparency of the management system, the functioning of the internal quality assurance system, including its design, management and monitoring, and the adoption of appropriate decisions		+		
12	12.	The management of the EP should carry out risk management		+		
13	13.	The management of the EP should ensure the participation of representatives of interested parties (employers, teaching staff, students) in the collegiate management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program		+		
14	14.	The university must demonstrate innovation management within the EP, including the analysis and implementation of innovative proposals			+	
15	15.	The management of the EP must demonstrate its openness and accessibility for students of teaching staff, employers and other interested parties		+		
16	16.	The management of the EP confirms the completion of training in education management programs		+		
17	17.	The management of the EP should strive to ensure that the progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.		+		
<b>Total by standard</b>			<b>0</b>	<b>12</b>	<b>5</b>	<b>0</b>
<b>Information Management and Reporting Standard</b>						
18	1.	The university must ensure the functioning of the system for collecting, analyzing and managing information based on modern information and communication technologies and software		+		
19	2.	The EP guidance demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system			+	
20	3.	The management of the EP demonstrates the presence of a reporting system that reflects the activities of all structural units and departments within the EP, including an assessment of their performance		+		
21	4.	The university must determine the frequency, forms and methods for assessing the management of the EP, the activities of collegial bodies and structural divisions, top management			+	
22	5.	The university must demonstrate a mechanism for ensuring the protection of information, including determining the persons responsible for the reliability and timeliness of the analysis of information and the provision of data		+		
23	6.	The university demonstrates the involvement of students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them		+		

24	7.	The EP management must demonstrate the existence of communication mechanisms with students, employees and other stakeholders, including conflict resolution		+		
25	8.	The university must ensure the measurement of the degree of satisfaction with the needs of teaching staff, staff and students within the framework of the EP and demonstrate evidence of eliminating the identified shortcomings		+		
26	9.	The university should evaluate the effectiveness and efficiency of activities, including in the context of EP		+		
		The information collected and analyzed by the university within the framework of the EP should take into account:				
27	10.	key performance indicators		+		
28	11.	the dynamics of the contingent of students in the context of forms and types			+	
29	12.	academic performance, student achievement and dropout		+		
30	13.	satisfaction of students with the implementation of the EP and the quality of education at the university		+		
31	14.	availability of educational resources and support systems for students		+		
32	15.	employment and career growth of graduates		+		
33	16.	Students, employees and teaching staff must document their consent to the processing of personal data		+		
34	17.	The management of the EP should contribute to providing all the necessary information in the relevant fields of science		+		
<b>Total by standard</b>			<b>0</b>	<b>14</b>	<b>3</b>	<b>0</b>
<b>Standard "Development and approval of the educational program"</b>						
35	1.	The university must demonstrate the existence of a documented procedure for the development of the EP and its approval at the institutional level		+		
36	2.	The university must demonstrate the compliance of the developed EP with the established goals and planned learning outcomes		+		
37	3.	The EP management should determine the influence of disciplines and professional practices on the formation of learning outcomes		+		
38	4.	The university can demonstrate the presence of a model of a graduate of an EP that describes learning outcomes and personal qualities		+		
39	5.	The qualification awarded upon completion of the EP must be clearly defined, explained and correspond to a certain level of NQF, QF-EHEA		+		
40	6.	The management of the EP should demonstrate the modular structure of the program based on the European Credit Transfer and Accumulation System (ECTS), ensure that the EP, its modules (in content and structure) correspond to the set goals, with a focus on achieving the planned learning outcomes		+		
41	7.	The management of the EP should ensure that the content of academic disciplines and learning outcomes correspond to each other and the level of education (bachelor's, master's, doctoral studies)		+		

42	8.	The management of the EP must demonstrate the conduct of external reviews of the EP		+		
43	9.	The management of the EP must provide evidence of the participation of students, teaching staff and other stakeholders in the development of the EP, ensuring their quality		+		
44	10.	The management of the EP must demonstrate the positioning of the EP in the educational market (regional / national / international), its uniqueness		+		
45	11.	An important factor is the possibility of preparing students for professional certification		+		
46	12.	An important factor is the presence of a two-degree EP and / or joint EP with foreign universities		+		
<b>Total by standard</b>			<b>0</b>	<b>12</b>	<b>0</b>	<b>0</b>
<b>Standard "Continuous monitoring and periodic evaluation of educational programs"</b>						
47	1.	The university must ensure the revision of the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society			+	
48	2.	The university must demonstrate the existence of a documented procedure for monitoring and periodically evaluating the EP in order to achieve the goal of the EP. The results of these procedures are aimed at continuous improvement of the EP			+	
		Monitoring and periodic evaluation of the EP should consider:				
49	3.	the content of the programs in the context of the latest achievements of science and technology in a particular discipline		+		
50	4.	changing needs of society and the professional environment		+		
51	5.	workload, performance and graduation of students		+		
52	6.	effectiveness of student assessment procedures		+		
53	7.	needs and satisfaction of students		+		
54	8.	compliance of the educational environment and the activities of support services with the goals of the EP		+		
55	9.	All stakeholders must be informed of any planned or undertaken actions in relation to the EP. All changes made to the EP must be published			+	
56	10.	Support services should identify the needs of various groups of students and the degree of their satisfaction with the organization of training, teaching, assessment, mastering the EP in general		+		
<b>Total by standard</b>			<b>0</b>	<b>7</b>	<b>3</b>	<b>0</b>
<b>Student-Centered Learning, Teaching and Assessment Standard</b>						
57	1.	The management of the EP should ensure respect and attention to the various groups of students and their needs, providing them with flexible learning paths		+		



58	2.	The management of the EP should ensure teaching based on modern achievements of world science and practice in the field of training, the use of various modern methods of teaching and evaluating learning outcomes that ensure the achievement of the objectives of the EP, including competencies, skills to perform scientific work at the required level		+		
59	3.	The management of the EP should determine the mechanisms for distributing the teaching load of students between theory and practice within the framework of the EP, ensuring the mastery of the content and achievement of the objectives of the EP by each graduate		+		
60	4.	An important factor is the presence of own research in the field of teaching methods of EP disciplines			+	
61	5.	The university must ensure that the procedures for evaluating learning outcomes correspond to the planned results and goals of the EP		+		
62	6.	The university must ensure the consistency, transparency and objectivity of the mechanism for assessing the learning outcomes of the SP. Criteria and methods for evaluating learning outcomes should be published in advance		+		
63	7.	Assessors must be familiar with modern methods for assessing learning outcomes and regularly improve their skills in this area.		+		
64	8.	The management of the EP must demonstrate the existence of a feedback system on the use of various teaching methods and the assessment of learning outcomes		+		
65	9.	The management of the EP must demonstrate support for the autonomy of learners while providing guidance and assistance from the teacher.		+		
66	10.	The management of the EP must demonstrate the existence of a procedure for responding to complaints from students		+		
<b>Total by standard</b>			<b>0</b>	<b>9</b>	<b>1</b>	<b>0</b>
<b>Standard "Students"</b>						
67	1.	The university must demonstrate the policy of forming a contingent of students and ensure the transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) must be defined, approved, published			+	
68	2.	The management of the EP should provide for special adaptation and support programs for newly enrolled and foreign students		+		
69	3.	The university must demonstrate the compliance of its actions with the Lisbon Recognition Convention, including the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education		+		
70	4.	The university should provide an opportunity for external and internal academic mobility of students, as well as assist them in obtaining external grants for study		+		

71	5.	The university should actively encourage students to self-education and development outside the main program (extracurricular activities)		+		
72	6.	An important factor is the existence of a mechanism to support gifted students.		+		
73	7.	The university must demonstrate cooperation 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		+		
74	8.	The university must provide students with internship places, demonstrate the procedure for facilitating the employment of graduates, maintaining contact with them		+		
75	9.	The university must demonstrate the procedure for issuing documents to graduates confirming the qualifications received, including the achieved learning outcomes		+		
76	10.	The management of the EP must demonstrate that program graduates have skills that are in demand in the labor market and that these skills are really in demand in the labor market.		+		
77	11.	The management of the EP must demonstrate the existence of a mechanism for monitoring the employment and professional activities of graduates		+		
78	12.	An important factor is the existence of an active alumni association/union		+		
<b>Total by standard</b>			<b>0</b>	<b>11</b>	<b>1</b>	<b>0</b>
<b>Standard "Teaching Staff"</b>						
79	1.	The university must have an objective and transparent personnel policy in the context of the EP, including recruitment (including invited teaching staff), professional growth and development of staff, ensuring the professional competence of the entire staff		+		
80	2.	The university must demonstrate the compliance of the qualitative composition of the teaching staff with the established qualification requirements, the strategy of the university, and the goals of the EP	+			
81	3.	The management of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning and teaching			+	
82	4.	Вуз должен предоставлять возможности карьерного роста и профессионального развития ППС, в том числе молодых преподавателей		+		
83	5.	The university should involve in the teaching of specialists from relevant industries with professional competencies that meet the requirements of the EP		+		
84	6.	The university must demonstrate the presence of a motivation mechanism for the professional and personal development of teaching staff		+		
85	7.	The university must demonstrate the widespread use of teaching staff of information and communication technologies and software in the educational process (for example, on-line training, e-portfolio, MEPs, etc.)		+		

86	8.	The university must demonstrate its focus on the development of academic mobility, attracting the best foreign and domestic teachers			+	
87	9.	The university must demonstrate the involvement of each teacher in promoting a culture of quality and academic integrity at the university, determine the contribution of teaching staff, including those invited, to achieving the goals of the EP			+	
88	10.	An important factor is the involvement of teaching staff in the development of the economy, education, science and culture of the region and the country			+	
<b>Total by standard</b>			<b>1</b>	<b>7</b>	<b>2</b>	<b>0</b>
<b>Standard "Educational resources and student support systems"</b>						
89	1.	The university must guarantee the compliance of educational resources, including material and technical, and infrastructure with the goals of the educational program			+	
90	2.	The management of the EP must demonstrate the availability of classrooms, laboratories and other facilities equipped with modern equipment and ensuring the achievement of the objectives of the EP			+	
		The university must demonstrate the compliance of information resources with the needs of the university and the implemented EPs, including in the following areas:				
91	3.	technological support for students and teaching staff in accordance with educational programs (for example, online learning, modeling, databases, data analysis programs)			+	
92	4.	library resources, including a fund of educational, methodical and scientific literature on general education, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases			+	
93	5.	examination of the results of research, graduation works, dissertations for plagiarism			+	
94	6.	access to educational Internet resources			+	
95	7.	functioning of WI-FI in its territory				+
96	8.	The university must demonstrate that it creates conditions for conducting scientific research, integrating science and education, publishing the results of research work of teaching staff, staff and students			+	
97	9.	The university should strive to ensure that the educational equipment and software used for the development of educational programs are similar to those used in the relevant sectors of the economy				+
98	10.	The management of the EP must demonstrate the existence of procedures for supporting various groups of students, including information and counseling			+	
99	11.	The management of the EP should show the existence of conditions for the advancement of the student along an individual educational trajectory			+	
100	12.	The university must take into account the needs of different groups of students (adults, working, foreign students, as well as students with special educational needs)			+	
101	13	The university must ensure that the infrastructure meets the safety requirements			+	

<b>Total by standard</b>			<b>0</b>	<b>10</b>	<b>3</b>	<b>0</b>
<b>Public Information Standard</b>						
10 2	1.	The information published by the university must be accurate, objective, up-to-date and reflect all areas of the university's activities within the framework of the educational program		+		
10 3	2.	Informing the public should include support and explanation of the national development programs of the country and the system of higher and postgraduate education		+		
10 4	3.	The university management should use a variety of ways to disseminate information (including the media, web resources, information networks, etc.) to inform the general public and interested parties		+		
		Information published by the university about the educational program must be objective and up-to-date and include:				
10 5	4.	the purpose and planned results of the EP, the qualification to be awarded		+		
10 6	5.	information and the system for assessing the educational achievements of students		+		
10 7	6.	information about academic mobility programs and other forms of cooperation with partner universities, employers			+	
10 8	7.	information about the opportunities for developing personal and professional competencies of students and employment		+		
10 9	8.	data reflecting the positioning of the EP in the market of educational services (at the regional, national, international levels)		+		
11 0	9.	An important factor is the publication on open resources of reliable information about teaching staff, in the context of personalities		+		
11 1	10.	The university must publish audited financial statements for the EP on its own web resource		+		
11 2	11.	The university must post information and links to external resources based on the results of external evaluation procedures		+		
11 3	12.	An important factor is the placement of information about cooperation and interaction with partners, including scientific / consulting organizations, business partners, social partners and educational organizations.		+		
<b>Total by standard</b>			<b>0</b>	<b>11</b>	<b>1</b>	<b>0</b>
<b>TOTAL</b>			<b>1</b>	<b>93</b>	<b>19</b>	<b>0</b>