



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR
ACCREDITATION AND RATING

REPORT

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

7M07105 Engineering of technological equipment (profile)
(primary accreditation)

7M07302 Theory and technology of design of buildings and structures
(profile) (primary accreditation)

7M04104 Economics (profile) (primary accreditation)

KARAGANDA INDUSTRIAL UNIVERSITY

in the period from March 25 to March 27, 2024

INDEPENDENT ACCREDITATION AND RATING AGENCY
External Expert Commission

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



REPORT

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of compliance with the requirements of the standards of primary specialized
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7M04104 Economics (profile) (primary accreditation)


KARAGANDA INDUSTRIAL UNIVERSITY

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2024

(I) LIST OF DESIGNATIONS AND ABBREVIATIONS

IAAR – independent accreditation and rating agency
 MOOC – massive open online course
 AIS – automated information system
 UC – university component
 EEC – External Expert Commission
 DAP – Department of Academic Policy
 JD – Job description
 DSIaIC – Department of Science, Innovation and International Cooperation
 DDT – Department of Digital Transformation
 IET – Individual educational trajectory
 ETE - Engineering of technological equipment
 IC – Individual curriculum
 KarIU – Karaganda Industrial University
 CT – Comprehensive testing
 CED – Catalog of elective disciplines
 LEP – Laboratory of engineering profile
 LRA – local regulatory act
 MEP – modular educational program
 RW – Research work
 RWU – Research work of undergraduates
 NQF – National Qualifications Framework
 STC – Scientific and Technical Council
 EO – Educational Organization
 EP – Educational program
 PD – Professional development
 S – Software
 Teaching staff – Teaching staff
 RK – Republic of Kazakhstan
 WC – Working Curriculum
 DAS – Design automation system
 MM – Mass media
 QMS – Quality Management System
 TaTDBaS - Theory and technology of design of buildings and structures
 TMaT – Technological machines and transport
 EMC – Educational and Methodological Council
 EaB – Economics and Business



(I) INTRODUCTION

In accordance with Order No. 31-24-OD of 2024 of the Independent Accreditation and Rating Agency from March 25 to March 27, 2024 an external expert commission assessed the compliance of educational programs 7M07105 Engineering of technological equipment (profile) (primary accreditation), 7M07302 Theory and technology of design of buildings and structures (profile) (primary accreditation), 7M04104 Economics (profile) (primary accreditation) of Karaganda Industrial University with the standards of primary specialized accreditation of the educational program (ex-ante) of the organization higher and (or) postgraduate education (No.68-18/1-OD dated May 25, 2018, first edition) in a hybrid format.

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

The composition of the EEC:

1) Chairman of the IAAR Commission – Shcherbina Alexey Vladimirovich, Candidate of Economics, Doctor of Philosophy, Associate Professor of the Federal State Educational Institution of Higher Education "Southern Federal University" (Russian Federation) *Off-line participation*

2) IAAR expert – Natalia Vladimirovna Tsopa, Professor, Doctor of Economics, Head of the Department of Technology, Organization and Construction Management, Federal State Educational Institution of Higher Education "V.I. Vernadsky Crimean Federal University" (Russian Federation) *On-line participation*

3) IAAR expert – Natalia V. Ryvkina, Master's degree, Senior Lecturer of the Department of Construction, L.N.Gumilyov Eurasian National University (Astana) *Off-line participation*

4) IAAR expert – Yelubai Madeniyet Azamatuly, PhD, Professor, Dean of the Faculty of Natural Sciences, Toraighyrov University (Republic of Kazakhstan) *On-line participation*

5) IAAR expert – Zakirova Dilnara Ikramkhanova, PhD, Associate Professor of the Department of Tourism and Service, Turan University (Republic of Kazakhstan) *Off-line participation*

6) IAAR expert – Najipkyzy Meruert, PhD, Associate Professor, Department of Chemical Physics and Materials Science, Al-Farabi Kazakh National University (Republic of Kazakhstan) *Off-line participation*

7) IAAR expert – Mazdubai Asylkhan Vladimirovich, PhD, Associate Professor, Head of the Department of Mechanics and Oil and Gas Engineering at Toraighyrov University (Republic of Kazakhstan) *On-line participation*

8) IAAR expert – Dzholdasbayeva Gulnar Karimovna, Doctor of Economics, Professor, Head of the Department of Economics and Management, Almaty Technological University (Republic of Kazakhstan) *On-line participation*

9) IAAR expert – Kilibayev Yerkebulan Omirlichev, Ph.D., Senior Lecturer at the Department of Non-Ferrous Metals Metallurgy, Corresponding member of the International Academy of Informatization, L.N.Gumilev Eurasian National University (Republic of Kazakhstan) *Off-line participation*

10) IAAR expert, employer - Turebekova Zhanar Meiramovna, Head of the Human Capital Development Department of the Chamber of Entrepreneurs of Almaty (Republic of Kazakhstan) *On-line participation*

11) IAAR expert, employer - Madiev Temirlan Khaleluly, leading expert of the Investment Project Support Department of the Chamber of Entrepreneurs of Almaty (Republic of Kazakhstan) *On-line participation*

12) IAAR expert, student – Amanbayev Chingis Anasovich, 1st year master's student of the Construction Department, member of the Alliance of Students of Kazakhstan, L.N.Gumilyov Eurasian National University (Astana) *On-line participation*

13) IAAR expert, student – Yamaltdinov Bogdan Maratovich, 1st year master's student of OP "Chemical Technology of Organic Substances", member of the Alliance of Students of

Kazakhstan, Toraighyrov University (Republic of Kazakhstan) *On-line participation*

14) IAAR expert, student - Tynymbaeva Aruzhan Muratkyzy, master's student of OP "Materials Science and Technology of new Materials", K.I.Satpayev Kazakh National Research Technical University (Republic of Kazakhstan) *On-line participation*

15) IAAR expert, student - Yerzhan Kulkubaev, 1st year Master's student of Economics, member of the Alliance of Students of Kazakhstan, Almaty University of Humanities and Economics (Republic of Kazakhstan) *On-line participation*

16) IAAR Coordinator – Saidulayeva Malika Akhyadovna, Project Manager of the Independent Agency for Accreditation and Rating (Republic of Kazakhstan) *Off-line participation*.



(II) (REPRESENTATION OF THE EDUCATIONAL ORGANIZATION)

Karaganda Industrial University is one of the leading universities in Kazakhstan for the training of certified specialists in bachelor's, master's and doctoral degree programs, and scientific personnel of a technical profile for the Republic of Kazakhstan.

The map implements a multi-level system of training highly qualified technical specialists by improving the quality of the educational process, improving scientific and technical activities, actively contributing to the formation of a comprehensively developed personality, and developing the university's management system.

There are 11 departments and 3 faculties in the structure of KarIU. The University has 6 educational and laboratory buildings with a total area of 44.01 thousand square meters, where classrooms, specialized classrooms and laboratories, the university Museum, the Center for Information Technology and Telecommunications, 20 computer classrooms are located. The university's sports complex, with a total area of 2300 sq. m., includes 6 game halls and 2 outdoor playgrounds.

Library resources. The total area of the library premises is 1263.4 m², the reading room is 443 m² with 42 seats, the subscription and periodicals room is 623 m², the book depository is 197.4 m². The entire library's book collection is concentrated in the main building.

The total book fund of the library as of 01.01.2024 is 296,520 copies; of which 115,409 copies are in the state language; 1,348 copies are in English; textbooks on electronic media make up 23% of the total fund - 67,441 copies.

The contingent of students of the accredited EP for the 04/25/2024:

7M07105 - Engineering of technological equipment – 0;

7M07302 - Theory and technology of design of buildings and structures – 0;

7M04104 - Economics – 0.

Brief description of accredited EP 7M07105 - *Engineering of technological equipment*, 7M07302 - *Theory and technology of design of buildings and structures*, 7M04104 - *Economics*.

Educational programs: 7M07105 - Engineering of technological equipment, 7M07302 - Theory and technology of design of buildings and structures belong to the group of educational fields 7M07 - Engineering, manufacturing and construction industries, code and classification of training areas 7M071 - Engineering and Engineering, 7M073 - Architecture and construction.

Training of specialists in accredited EP 7M07105 - Engineering of technological equipment (License number KZ86LAA00019217, license date October 30, 2020, order of the Chairman of the Committee for Quality Assurance in Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan dated October 29, 2020 No. 426. Subspecies(s) of the licensed activity: Postgraduate education, 7M071 - Engineering and Engineering. Appendix No. 14), 7M07302 - Theory and technology of design of buildings and structures (License number KZ86LAA00019217, license date October 30, 2020, order of the Chairman of the Committee for Quality Assurance in Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan dated October 29, 2020 No. 426. Subspecies(s) of the licensed activity: Postgraduate education, 7M073 - Architecture and Construction. Appendix No. 14).

The training of personnel in accredited EP is carried out at the level of 7NRK – Postgraduate education. Master's degree (based on the mastered bachelor's degree program), practical experience. Bachelor's degree and additional professional education, practical experience.

The departments provide training to students in accordance with the requirements of the State Compulsory Standard of Education of the Republic of Kazakhstan. Students have the right to choose their educational learning path with the help of advisors. Graduates of accredited EP can work in the field of science and technology related to the technical profile for the Republic of Kazakhstan: in the field of industrial technological equipment and construction technologies.

The masters are trained in Kazakh and Russian languages. Full-time education. The standard period of study in the master's degree is 1.5 years. There is an opportunity to continue studying in the doctoral program 8D07102 "Innovative engineering of technological machines".

Currently, the main staff of departments has been formed at the Department of TMaT, Construction, EaB, the production and technical base has been expanded, contracts have been concluded with enterprises on a scientific and production agreement for training specialists through professional practices and employment of graduates, an educational complex has been created, where practical and laboratory classes are currently held.

Qualitative and quantitative composition of teachers of the department:

The percentage of settling down in the department of TMiT as a whole is 100%, in the department of "Construction" - 86%; in the Department of EiB - 40%, including in the teaching staff of those implementing OP:

- 7M07302 – Theory and technology of design of buildings and structures - 45%;
- 7M07105 - Engineering of technological equipment - 54%;
- 7M04104 - Economy - 100%.

Employment of graduates according to accredited cluster EP for the period 2021-2023. according to EP 7M07302 - 100%, according to EP 7M04104 – 100%.

There is no academic mobility for accredited cluster EP for the period 2021-2023.

Research and contractual projects at the department are interdisciplinary in nature and are conducted with the involvement of students from all departments of the accredited cluster:

The TMaT department, which implements EP 7M07105 – ITO, implements 5 grant scientific and technical projects funded by the MSAHE Science Committee for a total amount of 266 million tenge.

1. AP14972831 - Study of the structure and properties of experimental aluminum matrix composites reinforced with metal carbides and silicon production waste (15 million tenge), head - Abishkenov M.Zh.;
2. AP15473081 - Development of an integrated technology for the production of road construction materials based on blast furnace waste (19 million tenge), head - Kunaev V.A.;
3. AP19677907 - Study of the effect of micro/nanoparticles, industrial waste and shear on the quality of metal blanks for mechanical engineering (73 million tenge), head – Ashkeev Zh.A.;
4. AP19674502 Development and research of a technological method for the implementation of intensive shear deformations during rolling in calibrated rolls (70 million tenge), head – Nogaev K.A.;
5. AP19678263 Rational use of man-made waste from metallurgical industries (89 million tenge), head – Romanov V.A.

The Department of EaB is working on a contractual project for the provision of services on the topic: "Development of a feasibility study for the construction of a plant for the production of power flexible cable."

In 2023, the teaching staff of the Department of Construction carried out work on research: "Inspection and repair of structures of the Saburkhanskaya SOF".

(III) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

International primary specialized accreditation EP 7M07105 Engineering of technological equipment (profile) (primary accreditation), 7M07302 Theory and technology of design of buildings and structures (profile) (primary accreditation), 7M04104 Economics (profile) (primary accreditation) of Karaganda Industrial University according to IAAR standards is held for the first time.

(IV) DESCRIPTION OF THE EEC VISIT

The work in the EEC was carried out on the basis of the approved Program of the visit of the expert commission on specialized accreditation of educational programs of Karaganda Industrial University in the period from March 25 to March 27, 2024.

In order to coordinate the work of the EEC, an on-line policy meeting was held on 03/24/2024, during which powers were distributed among the members of the commission, the schedule of the visit was clarified, and agreement was reached on the choice of examination methods.

To obtain objective information about the quality of educational programs and the entire infrastructure of the university, to clarify the content of self-assessment reports, meetings were held with the rector, vice-rectors of the university in areas of activity, heads of structural divisions, heads of departments, teachers, students, graduates, employers. A total of 56 representatives took part in the meetings (table 1).

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

Category of participants	Количество
Rector	1
The Vice-Rector's building	3
Heads of structural divisions	15
Deans	3
Heads of departments	7
Tutors	17
Students, undergraduates, doctoral students	no
Graduates	1
Employers	9
Total	56

During the visual inspection, the members of the EEC got acquainted with the state of the material and technical base, visited the laboratories of the Department of Construction (specialized auditorium on the organization and technology of construction production, specialized auditorium "Design of building structures", specialized auditorium for design), the center for digital engineering in engineering and technology, the school of entrepreneurship, computer classes and lecture halls, conference- the hall.

At the meetings of the EEC IAAR with the university's target groups, the mechanisms for implementing the university's policy were clarified and the individual data presented in the university's self-assessment report were specified.

The members of the EEC visited the practice bases of accredited programs: JSC "Qarmet".

The members of the EEC did not attend training sessions due to the lack of a contingent.

In accordance with the accreditation procedure, 46 teachers and 12 students were surveyed.

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

As part of the planned program, recommendations for improving accredited educational programs of Karaganda Industrial University, developed by the EEC based on the results of the examination, were presented at a meeting with the management on 03/27/2024.

(VI) COMPLIANCE WITH THE STANDARDS OF PRIMARY SPECIALIZED ACCREDITATION

6.1. The standard "Educational Program Management"

- *The organization of higher and (or) postgraduate education must have a published quality assurance policy. The quality assurance policy should reflect the relationship between scientific research, teaching and learning.*
- *The organization of higher and (or) postgraduate education should 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 in the implementation of joint/double-degree education and academic mobility.*
- *The management of the EP demonstrates its readiness to ensure transparency in the development of an EP development plan based on an analysis of its functioning, the real positioning of the OE and the orientation of its activities to meet the needs of the state, employers, students and other stakeholders. The plan should contain a timeline for the start of the educational program.*
- *The management of the EP demonstrates the functioning of mechanisms for the formation and regular review of the development plan of the OP and monitoring its implementation, evaluating the achievement of learning goals, meeting the needs of students, employers and society, and making decisions aimed at continuous improvement of the EP.*
- *The management of the EP should involve representatives of groups of stakeholders, including employers, students and teaching staff in the formation of a development plan for the EP.*
- *The management of the educational institution must demonstrate the individuality and uniqueness of the educational institution's development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education.*
- *The organization of higher and (or) postgraduate education must demonstrate a clear definition of those responsible for business processes within the framework of the EP, an unambiguous distribution of staff responsibilities, and the differentiation of functions of collegial bodies.*
- *The management of the educational institution must provide evidence of the transparency of the educational program management system.*
- *The management of the EP must demonstrate the existence of an internal quality assurance system for the EP, including its design, management and monitoring, their improvement, and fact-based decision-making.*
- *The management of the EP should carry out risk management, including within the framework of the EP undergoing primary accreditation, as well as demonstrate a system of measures aimed at reducing the degree of risk.*
- *The management of the educational institution should ensure the participation of representatives of employers, teaching staff, students and other interested persons in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.*
- *The NGO should demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals.*
- *The management of the educational institution must demonstrate evidence of readiness for openness and accessibility for students, teaching staff, employers and other interested persons.*
- *The management of the EP should be trained in educational management programs.*

The evidentiary part

KarIU follows a quality assurance strategy that is integrated into its strategic management and is aimed at providing a high level of educational services for consumers and customers. This university quality strategy is based on its mission (<https://ttu.edu.kz/ru/missiya-universiteta/>), focused on the training of competitive specialists of the new generation in the field of mining and metallurgy at all levels of higher education, as well as on contributing to the innovative development of the region and the country. This is reflected in the following documents: Quality Policy (<https://ttu.edu.kz/ru/politika-v-oblasti-kachestva/>), Quality objectives (<https://ttu.edu.kz/ru/celi-v-oblasti-kachestva/>) and the Development Program of the NAO "Karaganda Industrial University" for 2023-2029.

KarIU's quality assurance policy is based on the functioning of the QMS, which meets the requirements of ST RK ISO 9001-2016 "Quality Management System. Requirements". An internal Quality Assurance System is also applied in accordance with the QMS 4 – 53 – 2022 The regulation on the internal quality assurance system of NJSC "Karaganda Industrial University". QMS KarIU (<https://ttu.edu.kz/ru/smk/>) documented, implemented and maintained in accordance with the current organizational structure of the university. Continuous improvement of the quality assurance system is regulated by the standard of the organization of the QMS StO II.10-01.01-2021 "Data analysis, QMS improvement".

Documents on the quality assurance policy are available to employees, students and staff of the university through posting on its official website (<https://ttu.edu.kz/>) and on information stands at structural divisions and departments. The publication of these documents on public resources provides an opportunity for employers and other interested parties to familiarize themselves with them.

KarIU emphasizes the close connection between scientific activity, teaching and the educational process in its quality assurance policy. This relationship is reflected in the goals of the university and is manifested in the increased participation of staff and students in scientific and educational projects. Students are actively involved in scientific research. Thus, the integration of scientific and educational aspects ensures the participation of students in scientific conferences, research and development competitions and the publication of scientific papers.

The KarIU Development Strategy takes into account various ways of interaction between the business community, the scientific community, teachers and students. The content of the EP, TC and CED is consistent with the needs of employers. Students develop their competencies through real production practice at enterprises. Conditions are also being created for the commercialization of scientific research and technology with the participation of representatives of the business community. The scientific and technical infrastructure is improving due to the development of KarIU's international relations with leading technical universities and industrial corporations.

The graduating departments develop plans for the development of educational institutions in accordance with the Regulation of the QMS P 4-57-2022 "On the procedure for developing an educational program development plan and procedures for evaluating the effectiveness of the implementation of the educational program", based on the strategic directions of the development of KarIU. Development plans are presented on a separate page of the "University Development Plans" section on the official website ([https://tttu.edu.kz/ru/plani-razvitiya /](https://tttu.edu.kz/ru/plani-razvitiya/)).

The distribution of responsibility for business processes within the framework of EP management is clearly described in the job descriptions developed in accordance with the QMS StO II.5-03.01-2021 "Job descriptions". The differentiation of the functions of collegial bodies is regulated by the Provisions on the Activities of the relevant bodies. The powers and responsibilities of all participants implementing the EP are clearly defined in the document QMS P4-20-2022 "Regulations on the qualification characteristics of positions of scientific and pedagogical workers".

The University ensures the participation of representatives of interested persons in the composition of the collegial management bodies of the EP, as well as their representativeness in making decisions on the management of the EP. The collegial governing bodies are the Board of Directors, the Academic Council, the Educational and Methodological Council, the Scientific and Technical Council, and the Faculty Council. The Board of Directors includes the following representatives of employers: N.V. Plokhikh, Head of the Department of Training, Recruitment and Leadership of JSC QARMET, V.A. Bykov. – Director of the Association for the Promotion of Private Entrepreneurship in the Republic of Kazakhstan; Kulpeisov E.D. - Director of the Chamber of Entrepreneurs "Atameken" of the Karaganda region. In the Academic Council of KarIU, students are represented by the president of the Student Parliament - Karzhau S.E. Also, the Academic Council includes the chairman of the trade union committee of KarIU – Karipbaeva A.R., representing the interests of teaching staff.

Academic Committees are formed annually to develop and update the EP with the participation of representatives of teaching staff, students, employers and foreign partners. So, the Academic Committee of the department "Technological machines and Transport" includes the head of the department Nogaev K.A., teachers Bestembek E.S., Romanov V.I., Ashkeev Zh.A., Abishkenov M.Zh., Kydarbayeva S.Zh.; employers Senyuk L.I. - head of the production and technical department of Gordorservice-T LLP, Konovalenko M.V. - Head of sheet rolling shop No. 1 of JSC "Qarmet", Aitbaev A.S. - head of the Corporate University of QazTehna LLP; foreign partner Sladkovsky A. - Professor of the Department of Railway Transport, Silesian Technical University (Poland); students Salykhanin A.S., Umurzakov S.D., Aldabaev M.A., Kazakov V.I., Kamarov A.U. In the department of "Construction": head of the department Bazarov B.A., teachers Filatov A.V., Konakbayeva A.N., Kasenova A.N., employers Bykov A.N. - Director of AK 9 LLP, Altaybaev A.A. - Director of Absolute Smart Development Group LLP; foreign partner Agnieszka Dabska - Professor of the Department of Hydro and Environmental Engineering at Warsaw

University of Technology (Poland); students Kornilina A.S., Belyanina E.A. At the Department of Economics and Business: Head of the Department Silaeva O.V., Gelmanova Z.S., Tatieva M.M., Chepelyan L.V., Petrovskaya A.S., Latypova M.A.; employers Bykov V.A. - President of the Association for the Promotion of Private Entrepreneurship in the Republic of Kazakhstan and the Center for Entrepreneurship Development, Karpova E.V. - supervisor of the Central Bank No. 195 JSC "Jysan Bank", Gumenchuk A.A. - Chief Accountant of Ayan M LLP, Kovaleva Z.I. - Director of Consultant LLP; foreign partner Arykbayev R.K. – Director of the Institute of Economics of Astrakhan State Technical University; students Rakhmayeva M.V., Ryspekova B.Zh., Bokach V.E., Halykov A.S.

The management of the EP carries out risk management in accordance with the QMS SRT II.6-01.02-2022 "Actions in relation to risks". The identification of risks is carried out on the basis of an analysis of documents, in accordance with the established procedure.

KarIU manages innovations within the framework of the EP, including the analysis and implementation of innovative proposals. Innovative proposals of teaching staff are considered during open lessons, seminars, trainings and other events within the framework of the annual methodological weeks of faculties, at scientific and methodological conferences.

The management of the EP is open and accessible to students, teaching staff, employers and other interested persons. There is a rector's blog on the university's website (<https://tttu.edu.kz/ru/blog-rektora/>), where all interested persons can contact through the "Question-answer" system. The work schedule of the heads of the university (rector and vice-rectors) defines the time for receiving visitors. The office managers of the rector's office make a preliminary appointment with the management (<https://tttu.edu.kz/grafik-priema-rektora-polichnim-voprosam/>).

The heads of EP 7M07105 Engineering of technological equipment (Nogaev K.A.), 7M07302 Theory and technology of design of buildings and structures (Bazarov B.A.), 7M04104 Economics (Silaeva O.V.) from May 11 to 21, 2021 took advanced training courses on the topic "Management in education" in the amount of 72 hours at Toraigyrov University.

The analytical part

EEC notes the focus of the mission and vision on meeting the needs of the state, society, sectors of the real economy, and potential stakeholders. Experts confirm that the mission, vision, directions of development of the university, as well as the policy and standards of quality assurance are posted on the university's website.

The EEC confirms that the university has a quality assurance policy that reflects the relationship between scientific research, teaching and learning. Measures to develop a culture of quality in the educational, research and educational process were reflected in the University's Development Program and included in the work plans of structural units.

EEC emphasizes that during interviews with focus groups, as well as based on the results of questionnaires, it was revealed that the management of EP 7M04104 Economics actively demonstrates a willingness to open and accessible interaction with students and teachers. This is reflected in regular open discussions, consultations and meetings that are held to discuss current and future initiatives and changes in the EP. Such events create an opportunity for students and teachers to express their opinions, ask questions and offer their ideas for improving the educational process. Such open and accessible interaction helps to create an atmosphere of trust and cooperation, contributes to improving the quality of education and increasing the level of satisfaction of all participants in the educational process.

The transparency of the processes of forming an EP development plan is confirmed by the participation of interested parties in their discussion. The management of the accredited EP confirmed the participation of employers and students in the development of the EP. However, during the study of the submitted documentation, the EEC revealed their formal involvement. Moreover, this fact was not confirmed during online conversations with representatives of

employers and students. This group does not have information about the availability of such a document as the EP Development Plan at the university.

The development Plans of the EP do not trace the individuality and uniqueness of the EP. The development plans of the University duplicate the strategic directions, goals and objectives of the University Development Program, as well as plans for the development of the scientific and pedagogical direction of the University. When determining the uniqueness of the EP, the management of the EP needs to focus on certain skills, teaching methods or specific aspects of the content of the EP, such as the development of unique courses and modules reflecting modern trends and new technologies; the introduction of innovative teaching methods and pedagogical approaches; cooperation with industry and partnerships with organizations; international cooperation and exchange programs; support for student initiatives and research projects, etc.

The EEC notes the need for regular monitoring of the implementation of the development plan EP 7M04104 Economy with a focus on verifying the implementation of target indicators, primarily on ensuring the contingent and its safety. Regular identification of successful and problematic aspects of the implementation of the EP, identification of the causes of deviations from the plan and potential areas for improvement will allow the management of the EP to respond promptly to changing conditions and needs, adjust the strategy and introduce innovations. Regular monitoring of the EP development plan ensures its relevance, effectiveness and adaptability to changing conditions and requirements.

The risks described in the EP 7M04104 Economy development plan do not take into account the specifics of the EP. Moreover, according to the identified risks, measures have been proposed to eliminate them or reduce their impact, but they are not effective. For example, the planned contingent for the EP 7M04104 Economy in the 2022-2023 academic year was supposed to be 6 people, in the 2023-2024 academic year – 8 people. At the same time, the risk associated with the contingent of students is formulated as "Small academic groups of students in the educational program". That is, the management of the EP, when developing the EP development plan, did not assume the complete absence of a contingent of students for a number of years. This also demonstrates the lack of regular monitoring and revision of the EP development plan. Obviously, in the context of the EP, it is necessary to carry out systematic work on forecasting and analyzing risks, as well as forming an appropriate risk map. The quality of this work can be ensured by training the management of the EP on advanced training programs in the field of risk management.

As part of the implementation of online learning, the university carries out certain work on the formation and development of new roles and competencies of teachers. However, during the organization of interviews with teaching staff and employees, EEC was convinced of the insufficient formation of the innovative component. It is important to pay attention to innovation management, including in the educational process, which is not sufficiently reflected in the development plan of OP 7M04104 Economics. The EEC considers it necessary to develop a plan to improve the innovation management mechanism, providing for the introduction of various types of educational and extracurricular activities for the formation of competencies that allow flexible and dynamic response to all innovative processes, products and services in the professional field.

During the survey, to the question "How is the management of the educational institution paying attention to the content of the educational program?" 45.7% of teaching staff answered "very well", 54.3% - "good".

To the question "How is the innovative activity of teaching staff encouraged?" 31.3% gave the answer "very good", 66.7% - "good", 2.1% - "relatively bad".

The results of the student survey showed high satisfaction of students with the explanation of the rules and strategy of the educational program (91.7% were completely satisfied, 8.3% were partially satisfied).

100% of students were completely satisfied with the level of accessibility and responsiveness of the management.

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design have not been identified.

Strengths/Best practice on EP 7M04104 Economics:

- The management of the EP has demonstrated its readiness for open and accessible interaction, both for students and teachers.

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. In the 2024-2025 academic year, the management of the EP will identify the uniqueness and individuality of each individual EP based on its positioning as a competitive program capable of meeting the current and future needs of stakeholders; the identified features will be reflected in the content of the development plans of the EP.

2. In the 2024-2025 academic year, the management of the EP will review the development plans of the EP with the involvement of a wide range of stakeholders. The changes made should be reflected on the university's website and other sources of information for interested parties.

Additional recommendations for EP 7M04104 Economics:

1. Annually monitor the implementation of the EP development plan for the implementation of target indicators, assessment of the achievement of learning goals, compliance with the needs of stakeholders, and on this basis make decisions aimed at continuous improvement of the EP. The results of monitoring should be communicated to all interested parties.

2. Before the beginning of the 2024-2025 academic year, the university management should ensure that the heads of the EP and other persons involved in the management of the EP receive risk management training.

3. In the 2024-2025 academic year, conduct a detailed risk analysis in the context of EP, specify measures to reduce the impact of risks, specifying measurable performance indicators, responsible persons and deadlines for implementation.

4. In the 2024-2025 academic year, develop an action plan for the introduction of new innovative teaching and assessment methods into the educational process, including our own, as well as provide feedback on the effectiveness of their use.

The conclusions of the EEC according to the criteria:

According to the standard "Management of the educational program" EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures have the following positions: "strong" - 0, "satisfactory" - 12, "suggests improvement" - 3 and "unsatisfactory" - 0;

EP 7M04104 Economy: "strong" - 1, "satisfactory" - 8, "suggests improvement" - 6 and "unsatisfactory" - 0.

6.2. The Information Management and Reporting Standard

- The OE should demonstrate the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools and that it uses a variety of methods to collect and analyze information in the context of the EP.
- The management of the EP must demonstrate the existence of a mechanism for the systematic use of processed, adequate information to improve the internal quality assurance system.
- The management of the EP should demonstrate fact-based decision-making.
- A regular reporting system should be provided within the framework of the EP, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research.
- The OE should establish the frequency, forms and methods of evaluating the management of the EP, the activities of collegial bodies and structural divisions, senior management, and the implementation of scientific projects.
- The OE must demonstrate the definition of the procedure and ensuring the protection of information, including the identification of responsible persons for the reliability and timeliness of information analysis and data provision.
- 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 should demonstrate the existence of a mechanism for communication with students, employees and other stakeholders, as well as conflict resolution mechanisms.
- The OE should demonstrate the existence of mechanisms for measuring the degree of satisfaction with the needs of teaching staff, staff and students within the framework of the EP.
- The OE should provide for an assessment of the effectiveness and efficiency of activities, including in the context of the EP.
- Information intended for collection and analysis within the framework of the EP should take into account:
 - Key performance indicators;
 - dynamics of the contingent of students in the context of forms and types;
 - Academic performance, student achievements and expulsion;
 - satisfaction of students with the implementation of the EP and the quality of education at the university;
 - Availability of educational resources and support systems for students;
 - The OE must confirm the implementation of procedures for processing personal data of students, employees and teaching staff on the basis of their documentary consent.

The evidentiary part

Information management in KarIU includes the processes of formation, processing, transmission and use of information both inside and outside the organization. The basic principles of providing all interested parties with objective and complete information about the university's activities are defined in the document QMS P-4-27-2022 "Regulations on informing the public". Information management at the university is regulated by the standard QMS StO II.7-04.02-2021 "Internal information".

The official website of the university (<https://tttu.edu.kz/>) provides publicly available information in three languages – Kazakh, Russian and English. Here students, staff and other interested persons can learn about the structure of the university, its mission, strategy, scientific and educational activities. An electronic class schedule is also available (<https://tttu.edu.kz/ru/elektronnoe-raspisanie/>) and detailed information about the departments (<https://tttu.edu.kz/ru/kafedra-texnologicheskie-mashini-i-transport/>), <https://tttu.edu.kz/ru/kafedra-stroitelstvo/>, <https://tttu.edu.kz/ru/kafedra-ekonomika-i-biznes/>).

PLATONUS and MOODLE systems are used for effective management of educational processes (<https://dot.tttu.edu.kz/>).

The university uses both internal and external methods of assessing the quality of the functioning of the EP to form recommendations for their further development and improvement. Internal assessment methods include: evaluation of the work of departments, internal audits, checking the readiness of departments for the new academic year, assessing the quality of the educational process, as well as questioning employers, students, staff and teachers. External evaluation is carried out through: external quality assurance procedures, reports of accreditation commissions, places in the ratings of educational programs, as well as through the success of students at Olympiads and scientific conferences.

A regular reporting system is provided, which includes the evaluation of departments and scientific research. According to the results of the academic semesters, reports of teaching staff on various aspects of educational, scientific and educational activities are compiled.

KarIU conducts surveys of students, staff and teaching staff twice a year to determine their level of satisfaction within the framework of the EP. The questionnaire procedure is regulated by the QMS documents.-27-2-2021 "Regulations on conducting a questionnaire on monitoring the quality of educational, educational and research processes in the NJSC "Karaganda Industrial

University" and QMS StO II.8-02.01-2023 "Processes related to consumers".

KarIU has established procedures to ensure the protection of information, including those responsible for its accuracy and timeliness. Approaches to information security management and protection of personal data of students and employees are described in the documents "Instructions for ensuring the safety of information of NJSC Karaganda Industrial University" and QMS P4-27-2022 "Regulations on public information". The Information Security Policy sets standards in the areas of network security, password policy, server protection, antivirus protection and Internet access rules.

The Digital Transformation Department is responsible for the safety of digital information, which takes care of the operability and improvement of servers for data storage and processing. HyperV virtualization, limited access to server rooms, technical security tools, security personnel training, server system administration and regular software updates are used to ensure security. DCT monitors the network infrastructure, identifies violations and rules for the use of network equipment. The Department of Academic Policy monitors AIS and blocks users in case of violation of the password policy.

Access to the AIS "Platonus" is carried out through a login and password from the registrar's office, and the level of access depends on the user's role. For example, teachers can give grades, inform students about assignments and publish materials.

The KarIU website is backed up with a copy stored on remote servers, and the Platonus AIS databases are backed up by duplication on RAID 2. Mirroring is created after the system update.

The reliability of the data is checked within the framework of internal audit and scheduled inspections of departments and structural divisions. At the end of the academic year, the departments develop an Act of readiness for the new academic year on the basis of individual work plans of teaching staff approved by the dean, and the information provided by teachers is checked by the head of the department.

For effective interaction with students and other participants in the educational process, CarIU has established mechanisms for communication and conflict resolution, regulated by the documents of the QMS SrT II.8-02.01-2021 "Processes related to consumers" and QMS P-4-42-1-2020 "The Regulation on the Conciliation Commission".

The main communication channels at CarIU are: direct communication (within the framework of the educational process, meetings, meetings, individual meetings, round tables, etc.), a local network (Net Speakerphone), Internet resources (university website, e-mail, social networks, AIS "Platonus", AIS "Moodle"), telephone communications, mass media (newspapers, magazines, television). Feedback and suggestions from university subjects are received through regular surveys of students, teaching staff and employers, open days, receptions of the rector on individual issues, meetings of the rector with students, as well as through the rector's blog on the official website of the university and events like the "Graduate Fair – 2023".

The effectiveness of the EP is analyzed by key indicators, including the composition of students, the employment of graduates, mobility within academic programs, participation in scientific research, achievements in competitions, multilingual training, the availability of developed MOOC for the EP, etc.

At KarIU, each student, employee and teaching staff gives written consent to the processing of their personal data. The process of obtaining such consent is organized by the Personnel Management Service and dean's offices in accordance with the legislation of the Republic of Kazakhstan "On Personal Data and their protection".

The analytical part

The Commission notes that the University has a multi-level information and reporting management system. Information management includes the management of traditional flows and digital information flows. All documents developed at the university are distributed to all structural divisions in electronic and paper versions.

The management of accredited educational institutions ensures that work is carried out to assess the degree of satisfaction of students, employees and teachers through their questionnaires. The EEC notes that the information collected within the framework of the university's activities, including through statistical processing of information and reporting, allows the formation of analytical reports.

According to EP 7M07105 Engineering of technological Equipment, 7M07302 Theory and technology of design of buildings and structures, the Higher School of Economics emphasizes the availability of an information and reporting management system for student recruitment, academic performance, contingent movement, personnel, which is presented in regular reports at meetings of departments, the rector's Office and the Academic Council of the University.

Analyzing the situation with the absence of a contingent for EP 7M04104 Economy (with approved targets), as well as the absence of corrective and preventive actions in this regard, the EEC believes that the management of the EP should strive to make decisions based on evidence and analysis in order to ensure high-quality and effective development of the EP. The management of the EP should use objective data and analytical reports to assess the current state of the EP, predict future trends and identify potential problems. Moreover, proactive forecasting of possible changes in the educational environment, the requirements of the labor market and the needs of students will allow the management of the educational institution to be prepared for future challenges.

KarIU has a mechanism for communication with students, employees and other stakeholders through the collection and statistical processing and analysis of information on the results of all activities related to the employment of graduates of KarIU, which is carried out by the DAP.

At the same time, the EEC commission notes that the KarIU website does not provide up-to-date information on employment and career growth of graduates in the context of the EP, there is only information about the practice bases and the internship calendar in the section "Practice and employment (<https://ttu.edu.kz/ru/praktika-i-trudoustroystvo-2/>)", and in the section "Employment (<https://ttu.edu.kz/ru/trudoustroystvo/>)", statistical employment report for 2023. Taking into account the absence of a contingent of OP 7M07105 - ITO, 7M07302 – TaTDBaS in the current year, it is not possible to familiarize and analyze data on the employment of accredited EP in previous years.

During the online survey of teaching staff, 41.3% of teaching staff rated the feedback level of teaching staff with management as "very good", 58.7% - "good".

79.2% of the staff are fully satisfied with their participation in management decision-making, and 20.8% are partially satisfied.

The accessibility of the university's management to teachers was rated "very good" by 60.9% of teaching staff, and "good" by 39.1%.

At the same time, to the question "How does the management and administration of the university perceive criticism in their address?" 30.4% of teaching staff answered "very well", 65.2% - "good", 4.3% - "relatively bad".

The online survey of students showed:

- 83.3% of students are fully satisfied with the content and information content of the website of the educational organization in general and faculties in particular, partially satisfied - 8.3%, partially dissatisfied – 8.3%;

- 83.3% of students are fully satisfied with the speed of response to feedback from teachers regarding the educational process, 16.7% are partially satisfied%;

- 91.7% of students are fully satisfied with informing students about courses, educational programs and the academic degree they receive, and 8.3% are partially satisfied.

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and Technology of building and structure design:

1. The existence of a reporting system reflecting the activities of all structural divisions and departments within the framework of the EP, including an assessment of their effectiveness, is demonstrated.

The strengths/best practices of EP 7M04104 Economics have not been identified.

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures:

1. The responsible structural unit of the KarIU periodically replenish the university's website with necessary and up-to-date information about the employment and career growth of graduates in the context of the EP, as well as up-to-date information about the educational programs of the EP 7M07105 - ITO, 7M07302 – TaTDBaS.

Recommendations for EP 7M04104 Economics:

1. The management of the university and the EP annually assess the EP on the basis of approved performance and efficiency indicators, make further management decisions based on facts.

The conclusions of the EEC according to the criteria:

According to the Information Management and Reporting standard, EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design have the following positions: "strong" - 1, "satisfactory" - 15, "suggests improvement" - 0 and "unsatisfactory" - 0;

EP 7M04104 Economy: "strong" - 0, "satisfactory" - 16, "suggests improvement" - 0 and "unsatisfactory" - 0.

6.3. The standard "Development and approval of an educational program"

- The OE should define and document the procedures for the development of the EP and their approval at the institutional level.
- The management of the EP should ensure that the developed EP meets the established goals, including the expected learning outcomes.
- The management of the EP must demonstrate the existence of mechanisms 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.
- The management of the EP should ensure that there are developed models of the graduate of the EP describing learning outcomes and personal qualities.
- The management of the EP must demonstrate the conduct of external examinations of the content of the EP and the planned results of its implementation.
- The qualification awarded upon completion of the EP must be clearly defined and correspond to a certain level of NSC and QF-EHEA.
- The management of the educational institution should determine the impact 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 stakeholders in the development of the EP, ensuring their quality.
- The management of the educational institution should ensure the content of academic disciplines and learning outcomes for the level of study (bachelor's, master's, doctoral studies).
- The structure of the EP should provide for various types of activities that ensure that students achieve the planned learning outcomes.
- An important factor is the correspondence of the content of the EP and the learning outcomes of the EP implemented by organizations of higher and (or) postgraduate education in the EHEA.

The evidentiary part

The development of an EP in KariU is carried out in accordance with the current legislation of higher and postgraduate education. The procedures for the development and approval of educational programs are described in the documents QMS SRT II. 8-03.01-2021 "Design and development of educational services" and QMS P 4-25-1-2021 "Regulations on the development of modular educational programs".

The procedure for approving the EP at KariU begins with discussion at the meetings of the department, after which the EP is submitted to the Faculty Council for consideration. Based on the results of the discussion, a protocol is drawn up, which reflects all the suggestions, comments and recommendations of employers, as well as assesses the compliance of the program with the requirements of regulations and professional standards.

The faculty Council, in the presence of the head of the Department, analyzes the content of the program, checks its compliance with the standards and principles of continuity of education, after which it gives its conclusion to the Educational and Methodological Council. With a positive conclusion, the EP undergoes an external examination, during which the program is analyzed and a review is obtained. Before submitting the EP to the EMS, it is coordinated with the DAP. The approval of the EP is made by the rector or Vice-rector for academic Affairs after the decision of the EMS and approval by the Faculty Council.

So, EP 7M07105 Engineering of technological equipment was developed by a working group consisting of the head of the department, teachers, a representative of employers – Konovalenko M.V., head of the LPC-1 of JSC QARMET, as well as undergraduate Taisagatov A.D. Further, the EP was coordinated with the director of the DAP Kharchenko E.M., as well as with a foreign partner - Sladkovsky A. EP 7M07105 Engineering of technological equipment was considered at the meeting of the department "Technological machines and Transport" (Protocol No. 18 dated 04/25/2023); at a meeting of the Council of the Faculty of Energy, Transport and Control Systems (Protocol No. 5/1 dated 04/25/2023). EP 7M07302 Theory and technology of building and structure design was developed by a working group consisting of the head of the department, teachers, a representative of employers – Altaibaev A.A., director of Absolute Smart Development Group LLP, as well as undergraduate Sakenova Zh.K. Further, the EP was agreed with the director of DAP Kharchenko E.M., as well as with the director of production of LOGOS-Montazhstroy LLP Ziganshin I.B. EP 7M07302 Theory and technology of designing buildings and structures was considered at a meeting of the Department of Construction (Protocol No. 8 dated 03/14/2023); at a meeting of the Council of the Faculty of Economics and Construction (Protocol No. 8 dated 03/17/2023). EP 7M04104 Economics was developed by the head of the department, teachers, employer Kovaleva Z.I., director of LLPConsultant", undergraduate student Kazbekov

A.B.; agreed with the Director of the DAP Kharchenko E.M., as well as with Bykov V.A., President of the Association for the Promotion of Private Entrepreneurship in the Republic of Kazakhstan and the Center for Entrepreneurship Development. EP 7M04104 Economics was considered at a meeting of the Department of Economics and Business (Protocol No. 32 dated 04.04.2023); at a meeting of the Council of the Faculty of Economics and Construction (Protocol No. 9 dated 04/21/2023). Further, all EP were considered at a meeting of the Educational and Methodological Council of the University (Protocol No. 5 dated 04/26/2023); at the Board meeting (Minutes No. 6 dated 05/26/2023); approved by the Chairman of the Board-Rector on 05/26/2023.

Approved EPs are posted on the official website of the university for general access ([https://tttu.edu.kz/ru/obrazovanie/modulnie-obrazovatelnie-programmi /](https://tttu.edu.kz/ru/obrazovanie/modulnie-obrazovatelnie-programmi/)).

According to the QMS P 4-25-1-2021 "Regulations on the development of modular educational programs", EPs are subject to annual examination and updating. In March-April of each academic year, the departments hold extended meetings with employers and students to evaluate the current educational program. Based on the results of the examination, a decision is made on the further use, modification or closure of the program.

The management of the EP ensures that the developed EP meets the established goals, including the planned learning outcomes. The purpose of EP 7M07105 Process Equipment Engineering is to train highly educated and harmoniously developed masters with socially professional, practice-oriented competencies and in-depth knowledge of engineering activities in the field of industrial technological equipment. According to EP 7M07302, Theory and technology of building and structure design is the training of masters with deep scientific and pedagogical knowledge, skills in applying advanced construction technologies, concepts, tools, design methods and capable of analyzing and improving the construction industry. Economics is the training of managerial personnel with strong analytical, research and leadership qualities and teamwork skills for planning and economic, production and economic, socio-managerial and marketing, financial and analytical services of enterprises and organizations, commercial and business structures.

The objectives of the EP are measurable due to the planned learning outcomes, which are based on the Dublin descriptors of the second level of Higher Education (Master's degree) and correspond to the level of the National Qualifications Framework. These results are achieved through the study of the disciplines presented in the passports of the specified EP.

The provisions on internship are defined in the QMS P 4-54-2022 "Regulations on the procedure for organizing and conducting pedagogical practice of undergraduates and doctoral students".

The management of the EP has developed graduate models in accordance with the QMS P 4-49a-2021 "Regulations on the development of a graduate model for educational programs of the NJSC "Karaganda Industrial University". These models are presented in the form of requirements for the level of training in the MOS.

The qualifications obtained upon completion of the EP are defined, explained to stakeholders and correspond to a certain level of the NQF. The MEP contains a list of qualifications and positions according to the "Qualification Directory of positions of managers, specialists and other employees" that graduates of these ops can occupy.

KarIU actively cooperates with leading universities and research centers in the field of education, both in the CIS and abroad. The University has partnerships with a number of leading universities and scientific organizations abroad. The full list of KarIU partners can be found on the official website of the University ([https://tttu.edu.kz/ru/ob-universitete/nashi-partneri /](https://tttu.edu.kz/ru/ob-universitete/nashi-partneri/)).

The analytical part

During the visit, experts analyzed educational programs, educational and methodological support for their implementation. The documentation has been developed in accordance with the university guidelines and regulatory requirements of the Republic of Kazakhstan.

The University demonstrated participation in the working groups on the development of teaching staff, students and employers. The composition of the working group is indicated in the

structure of each EP.

The content of the EP and the sequence of their implementation comply with regulatory requirements. However, during the analysis of the content of the EP 7M04104 Economics, as well as its comparison with the EP of the scientific and pedagogical direction, their identity was revealed, with the exception of some minor differences. If the EP of the scientific and pedagogical direction have a more classical character, then the EP of the profile direction should be flexible and regularly updated due to technological innovations, economic factors and changing requirements for professionals. Regular review and updating of the EP shows the transparency of the educational process and the university's readiness to adapt, which strengthens the trust of stakeholders, and allows the EP to reflect the social and cultural values of society, taking into account its needs and requests.

The analysis of the studied documents, as well as the results of interviews with students, teaching staff, graduates and employers, allowed us to conclude that the developed graduate models for accredited educational programs presented in model educational programs describing learning outcomes do not fully take into account the specifics of the educational program and the personal qualities of graduates. Moreover, the results of training in the EP 7M04104 Economics are identical to the results of the EP of the scientific and pedagogical direction. Graduate models for scientific and pedagogical and specialized master's degree programs should differ in accordance with the main goals and expectations of learning in each of these areas. The graduate model of a specialized master's degree may be more focused on specific professional skills and competencies required in the industry.

The management of accredited EP has demonstrated the conduct of external expertise of the EP, however, the expertise is not carried out regularly, various categories of experts are not involved. Moreover, the Regulation on the development of modular educational programs does not reflect the requirements for experts, as well as the organization and conduct of internal and external expertise of the content of the EP.

KarIU has some elements of preparing students for professional certification. The EEC recommends intensifying the training of students for professional certification, including international certification, in order to provide graduates with competitive advantages in the labor market. Passing the certification confirms the level of knowledge, skills and competencies of students, making them more attractive to employers. International certification expands employment opportunities abroad and strengthens the reputation of the university as an educational institution providing high quality education. It also promotes the development of international partnerships and increases the prestige of the university on a global scale.

When analyzing syllabuses of academic disciplines according to EP 7M04104 Economics, their content was found to be inconsistent with the stated learning outcomes; the content of disciplines, in particular control measures, does not guarantee the full formation of competencies at the end of the course. The syllabuses provided as a form of control mainly involve the preparation of abstracts, which does not fully correspond to the master's degree level. It is important to use a variety of assessment methods to gain a more complete understanding of the knowledge and skills of undergraduates.

The results of the survey showed that the content of the educational program "very well" meets the scientific and professional interests and needs of 63% of teaching staff, 37% - "good".

45.7% of teaching staff believe that the university administration pays "very good" attention to the content of the educational program, 54.3% - "good".

34.8% of teaching staff "very good good" assess the support of the university and its management for the development of new educational programs / academic disciplines / teaching methods, 65.2% - "good".

37% of teaching staff believe that the educational program meets the expectations of the labor market and employers "very well" in terms of content and quality of implementation, 63% - "well".

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design, 7M04104 Economics have not been identified.

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. By the beginning of the 2024-2025 academic year, the management of the EP will clarify the personal qualities and professional competencies in graduate models to ensure the uniqueness of the EP. The management of the EP should ensure the coordination of graduate models with leading industry partners corresponding to the specifics of the EP.

2. In the 2024-2025 academic year, update the Regulations on the development of modular educational programs, including requirements for experts, as well as the organization and conduct of internal and external expertise of the content of the EP, taking into account:

- compliance with the EP structure;
- relevance of the thematic content;
- compliance of expected learning outcomes with market requirements;
- availability of a competency-based assessment of learning outcomes.

3. The management of the EP should ensure regular external expertise from specialists who correspond to the specifics of the EP, with specific proposals.

4. By the beginning of the 2024-2025 academic year, determine the list of disciplines whose content is aimed at preparing students for professional, including international, certification. In the 2024-2025 academic year, make appropriate adjustments to the content of educational programs and academic disciplines, as well as establish links with organizations that carry out professional certification.

Additional recommendations for EP 7M04104 Economics:

1. In the 2024-2025 academic year, the management of the EP will review the content of the EP, including the expected learning outcomes, for compliance with the requirements of the modern labor market, taking into account the specifics of the region and the strategic directions of the country's economic development.

2. By the beginning of the 2024-2025 academic year, conduct a full audit of educational and methodological documentation, in particular educational and methodological complexes of disciplines, for compliance of their content with the declared learning outcomes and learning levels.

The conclusions of the EEC according to the criteria:

According to the standard "Development and approval of the educational program" EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures have the following positions: "strong" - 0, "satisfactory" - 11, "suggests improvement" - 1 and "unsatisfactory" - 0;

EP 7M04104 Economy: "strong" - 0, "satisfactory" - 7, "suggests improvement" - 5 and "unsatisfactory" - 0.

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

- The OE should identify mechanisms for monitoring and periodic evaluation of the EP to ensure that the goal is achieved and the needs of students and society are met, and show the focus of the mechanisms on continuous improvement of the EP.
- Monitoring and periodic evaluation of the EP should include:
 - the content of programs in the light of the latest scientific achievements in a particular discipline to ensure the relevance of the discipline taught;
 - changes in the needs of society and the professional environment;
 - workload, academic performance and graduation of students;
 - effectiveness of student assessment procedures;
 - expectations, needs and satisfaction of students with learning in the EP;
 - the educational environment and support services and their compliance with the goals of the EP.
- The management of the EP should demonstrate a systematic approach in monitoring and periodically evaluating the quality of the OP.
- The OE, the management of the EP should define 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 evidentiary part

KarIU regularly monitors and periodically evaluates EP to ensure that they meet the needs of students and society. The results of these processes are aimed at continuous improvement of the EP. The basic principles of these processes include: analysis of the needs of the labor market and training of specialists with appropriate competencies; coordination and adaptation of curricula and programs; completion of education at each stage; consideration of the educational needs of students in accordance with their abilities and capabilities.

The procedures for monitoring and evaluating the EP are carried out on the basis of internal QMS documents. These include: QMS P 4-25-1-2021 "Regulations on the development of modular educational programs", QMS P-27-2-2021 "Regulations on conducting a questionnaire on monitoring the quality of educational, educational and research processes at Karaganda Industrial University", QMS P4 - 57 – 2022 "Regulations on the procedure for developing an educational program development plan and evaluation procedure the effectiveness of the implementation of the educational program".

To assess the effectiveness of the implementation of the EP, external and internal audits, an examination of methodological support, as well as an analysis of activities at collegial bodies such as the Academic Council, the Educational and Methodological Council, and meetings of departments are used. These mechanisms help to determine the achievement of goals and the effectiveness of the EP, as well as to identify deviations from the tasks set. If necessary, measures are taken to improve the quality of education and educational activities.

The main tool for monitoring the satisfaction of the needs of students and society in KarIU is a questionnaire organized by the Department of Educational Work and Youth Policy.

For effective monitoring of students' academic performance, the university provides four stages of control: current, milestone, intermediate certification and final certification. These control measures are carried out in accordance with the established rules and regulations. The current control is carried out by teachers on the basis of a systematic check of students' academic performance. The boundary control is carried out on certain weeks, taking into account the results of the current control. Intermediate certification is carried out in the form of exams according to the curriculum.

After each session, the DAP analyzes the students' academic performance, discussing the results at the Academic Council. Academic achievements are displayed in a transcript containing information about grades, credits, and disciplines. All final grades, including repeated exams, are entered into the transcript. The transcript is issued under various circumstances, such as expulsion, transfer, participation in scholarship programs or mobility.

The Platonus information system is used to record and process information about academic performance.

The satisfaction of employers is assessed on the basis of work practices, and the quality of the organization and conduct of the practice is monitored by the heads of the practice and the relevant sectors. Based on the results of the practice, students submit a report, which is evaluated by the commission according to the established system of points and ratings.

The process of continuous improvement of the quality of educational programs is closely related to their development, which actively involves representatives of the labor market and foreign universities. When improving the EP and adjusting the educational trajectories of future specialists, the needs of the market and employers are primarily taken into account. Changes made to regulatory legal acts by government agencies also require adjustments to the UP and EP. Various tools are used to identify changes, such as questionnaires, marketing research, round tables, SWOT analysis, etc.

The analytical part

The EEC confirms that at KarIU, monitoring and evaluation of EP are carried out through internal and external procedures, including a review of the content and structure of programs taking into account the requirements of the labor market and social demands. The process of reviewing and updating programs is defined by the document "Regulations on the development of modular educational programs" and includes feedback from students, graduates and employers. The University actively cooperates with stakeholders to improve the quality of programs and meet their needs.

The University periodically subjects its processes and programs to external evaluation for more objective improvement. Different groups of students have access to various university support services, such as the Academic Affairs and Student Development Departments, the Career Center and the International Department. The University also provides scholarships to students from vulnerable groups. Meetings with students of various courses help the university to get feedback and improve the organization of the educational process.

The analysis of the submitted documents showed that all activities carried out based on the results of monitoring are reflected in the documentation in the form of decisions of the Academic Council, the UMS, etc.; decisions taken in departments; measures based on the results of internal audits; measures based on the results of external audits; corrective measures based on the results of identified and potential inconsistencies. The monitoring and evaluation of students' academic achievements is based on academic integrity and is consistent with the academic policy of the university.

Thus, the university has a continuous mechanism for monitoring and periodic assessment of the quality of education, which is handled by the university's services.

At the same time, the EEC considers it necessary to carry out a number of measures to improve the effectiveness of student assessment procedures: revision and improvement of the assessment system to ensure its transparency, fairness and objectivity; introduction of various forms of assessment to fully assess students' achievements; training and advanced training of teaching staff in modern assessment methods and the use of assessment criteria; inclusion of feedback communication from students on assessment procedures for their continuous improvement; development of clear and understandable assessment criteria available to students; regular audit and self-assessment of assessment procedures to identify weaknesses and opportunities for improvement. Such measures will help to improve the quality of the assessment process at the university, make it more effective and contribute to a more accurate reflection of the level of knowledge and skills of students.

During the interview, students of accredited EP demonstrated ignorance about the changes related to EP. Also, when studying the official website of the university, the lack of updated information was revealed, which makes it difficult to inform the main stakeholders. Thus, the mechanism for timely informing teachers, employers and other interested parties about the organizational decisions taken in relation to the EP has not been implemented, and the changes that the EP is undergoing are not published.

When analyzing the contingent according to EP 7M04104 Economy, it was revealed that there has been no recruitment in recent years. This may indicate a number of problems, such as inconsistency with the needs of the labor market, outdated or unattractive curriculum, insufficient promotion of education, or problems with the quality of education. In order to identify and solve

these problems, it is necessary to regularly monitor and evaluate the quality of the EP. This includes analyzing current labor market requirements, interviewing students, evaluating the content and teaching methods, as well as improving marketing strategy and cooperation with employers. This approach will allow you to identify problematic points and develop an action plan to improve the EP and attract students. The EEC notes the need to monitor and evaluate the quality of the EP and discuss the results of monitoring at meetings of collegial management bodies and post information reflecting the results of the quality assessment of the EP on the university's website.

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design, 7M04104 Economics have not been identified.

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. In the 2024-2025 academic year, monitor the effectiveness of assessment systems used by teachers in academic disciplines; make changes to syllabuses based on the results of monitoring.

Additional recommendations for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design:

1. To ensure the updating of the content of disciplines by modern innovative achievements of science and technology for accredited students. Update the content of academic disciplines taking into account digitalization, taking into account the requirements of employers and the labor market. To expand the opportunities and ways to inform stakeholders about any planned or undertaken actions in relation to the EP and ensure their implementation and monitoring. Ensure that the results of the changes are published on the university's website. To appoint the heads of the graduating departments, the deans of the faculty, the Director of the Department of Academic Policy, the Vice-rector for Academic Affairs as responsible. The deadline is 1 year, during the 2024-2025 academic year.

Additional recommendations for EP 7M04104 Economics:

1. The management of the educational institution annually monitor and evaluate the quality of the educational institution, discuss the results of monitoring at meetings of collegial management bodies and publish them on the university's website.

2. In the 2024-2025 academic year, implement a mechanism for timely informing teachers, employers and other interested parties about organizational decisions taken in relation to the EP, including, based on the results of monitoring and reviewing the content of the EP, using the official website of the university, etc.

The conclusions of the EEC according to the criteria:

According to the standard "Continuous monitoring and periodic evaluation of educational programs" EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures have the following positions: "strong" - 0, "satisfactory" - 9, "suggests improvement" - 1 and "unsatisfactory" - 0;

EP 7M04104 Economy: "strong" - 0, "satisfactory" - 8, "suggests improvement" - 2 and "unsatisfactory" - 0.

6.5. The standard "Student-centered learning, teaching and assessment of academic performance"

- The management of the educational institution should ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths.
- The management of the EP should ensure the use of various forms and methods of teaching and learning.
- An important factor is the availability of in-house research in the field of teaching methods of educational disciplines.
- The management of the educational institution should demonstrate the existence of a feedback system for the use of various teaching methods and evaluation of learning outcomes.
- The management of the educational institution should demonstrate support for the autonomy of students with simultaneous guidance and assistance from the teacher.
- The management of the educational institution must demonstrate the existence of a procedure for responding to student complaints.
- The OE should ensure consistency, transparency and objectivity of the learning outcomes assessment mechanism for each EP, including the appeal.
- The OE should ensure that the procedures for evaluating the learning outcomes of students of the EP correspond to the planned results and goals of the program, and publish criteria and evaluation methods in advance.
- The OE should define mechanisms to ensure that each graduate of the educational institution achieves learning outcomes and ensures the completeness of their formation.
- Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area.

The evidentiary part

According to accredited educational programs, the university management 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. It ensures respect and attention to different groups of students and their needs, providing them with flexible learning paths. Identification of the needs of students begins already when they enroll in the EP.

At the university, it is possible to form an individual learning trajectory based on the RUP and QED through the preparation of an individual curriculum (IC). The student is given the right to draw up an IUP, choose the required number of compulsory disciplines, disciplines of the university component and elective disciplines with the help of an adviser. To assist in choosing an individual learning path, presentations of elective disciplines are held.

The management of the OE provides for the implementation of comprehensive support for the educational process of students with special needs in accordance with the recommendations of the medical and social expertise service or the psychological, medical and pedagogical commission, since the university has a specialized audience for inclusive education.

It provides for the possibility of mastering the EP on the basis of individualization of the content, taking into account the characteristics and educational needs of a particular student.

The LNA "Academic Policy", approved by the Academic Council on February 25, 2022 and the QMS P 4-50-2021 "Regulation on the organization of inclusive education for persons with disabilities in the NAO "Karaganda Industrial University" dated June 25, 2021, regulates the organization of the educational process for persons with special educational needs.

Innovative teaching methods by the EP management are used in the form of business and role-playing games, simulation trainings, discussions, brainstorming method, situational games, slide shows. Decisions on the use of innovations in the educational process are made at the level of the EMS KarIU, meetings of departments and suggestions from teachers.

Research is carried out in the field of teaching methods of educational disciplines, in which the development of their own and adaptation of existing innovations, methods and methods of teaching is carried out. The Republican Scientific and Methodological Conference "Innovative Approaches in Education" is held every two years, during which teachers share their experience and the results of their own research of a scientific and methodological nature.

The availability of a feedback system for the use of various teaching methods and evaluation of learning outcomes according to OP 7M07105 - ITO, 7M07302 – TaTDBaS, 7M04104 - Economics is provided through discussion and analysis of open classes, questionnaires. The LRA guidelines "Learning Outcomes Assessment System", approved by the EMS KarIU on November 25, 2021; QMS P 4-26-2018 "Regulations on planning and conducting open classes" dated September 19, 2018, confirms the existence of a feedback system on the use of various teaching

methods and evaluation of learning outcomes.

Tracking the satisfaction of undergraduates and teaching staff with methodological innovations is carried out through the analysis of the results of a survey conducted in accordance with the QMS-27-2-2021 "The regulation on conducting a questionnaire on monitoring the quality of educational, educational and research processes in the NJSC "Karaganda Industrial University". The results of the survey are provided to the university administration, which provides information to the deans and heads of departments. Deans and heads hold discussions at the Faculty Council and department meetings.

The management of EP 7M07105 - ITO, 7M07302 – TaTDBaS, 7M04104 - Economics supports the autonomy of undergraduates with simultaneous guidance and assistance from the teacher. Stimulating the independence and autonomy of undergraduates with the availability of support and assistance mechanisms from the teacher is reflected in the LRA "Academic Policy", approved by the Academic Council on February 25, 2022. The President of the Student Parliament, S.E. Karzhau, is a member of the Academic Council of CarIU, a 2nd-year student is a member of the Council for Combating Corruption Offenses.

The procedures for responding to student complaints are regulated in the QMS P 4.18-2021 "Regulations on dealing with student Complaints", approved on August 27, 2021. Students' complaints are accepted by the deans, considered at meetings of the Board of Curators, at meetings, meetings of various levels, at meetings of students with the university management. The management of the EP ensures consistency, transparency and objectivity of the learning outcomes assessment mechanism for each EP, including the appeal.

The assessment of educational achievements of students of KarIU is carried out on the basis of a point-rating system, the LRA methodological guidelines "Learning outcomes assessment System", approved by the EMS on November 25, 2021, the KarIU student's guidebook describes the procedure for evaluating the learning outcomes of students of the EP, the criteria and evaluation methods are considered. Electronic testing in the AIS "Platonus" is mainly used for conducting intermediate certification.

The QMS SRT II.8-02.02-2021 "Management of the learning process" describes the mechanisms for ensuring that each graduate learns the learning outcomes. The management of OP 7M07105 - ITO, 7M07302 – TaTDBaS, 7M04104 - Economics monitors the progress of a graduate student along the educational trajectory by monitoring the results of examination sessions, the results of the protection of reports on professional practices.

To assess the level of competence of teachers, open training sessions are conducted, mutual visits to classes, a questionnaire "Teacher through the eyes of a student" on the quality and effectiveness of the educational process, determining the level of professional norms and ethics, competence, oratorical and communicative abilities of teachers.

Teaching staff regularly improve their skills in the field of professional activity, education management, and the use of modern computer tools and technologies.

The analytical part

The study of the materials presented by the management of the EP, as well as information obtained during the interviewing of the university management, teaching staff, students, employers, confirms the 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.

Due to the current lack of a contingent of students studying at OP 7M07105 - ITO, 7M07302 – TaTDBaS, 7M04104 – Economics, there was no opportunity to assess the degree of use of advanced techniques in the teaching of disciplines.

One student of EP 7M07302 – TaTDBaS, a graduate of 2023, expressed full satisfaction with the level of teaching quality and the existing educational resources of the university, the objectivity of the assessment of knowledge, skills and other educational achievements.

Generalized criteria for assessing students' knowledge are clearly formulated and defined in

the Academic Policy of the university. Syllabuses of disciplines reflect a letter-based system for evaluating academic achievements in a form that is understandable and accessible to all students. However, when analyzing the presented samples of syllabuses according to EP 7M04104 – Economics, the criteria for evaluating students' academic achievements by types of controls within each individual discipline are general or not found at all. The detail of the criteria for evaluating students' knowledge within the discipline should be sufficient to clearly determine how students' achievements will be evaluated and what specific criteria and assessment standards will be applied. It is important that the assessment criteria are clear, objective, specific and consistent with the learning objectives and expected results.

In modern conditions, it is necessary to pay more attention to teaching teaching staff and the introduction of various forms and methods of teaching, including the use of innovative technologies and evaluation of learning outcomes. Knowledge of modern assessment methods helps teachers to create a more effective and adaptive educational environment that contributes to the achievement of students' learning goals and their personal development, in order to ensure objectivity, take into account the diversity of students' abilities, promote skills development, adapt to technological changes, stimulate motivation, etc. In this regard, the WEC considers it necessary for the teaching staff of EP 7M04104 - Economics to actively conduct research in the field of innovative teaching methods of disciplines, to study and adopt positive experience in using innovative technologies for evaluating learning outcomes. The results of existing in-house research and development in the field of teaching methods of academic disciplines should be disseminated and made available to all interested parties.

According to the results of interviewing, familiarization with various documentation, material and technical base and information and methodological resources of the university and departments, questionnaires of students and teaching staff, the EEC IAAR notes the following:

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design, 7M04104 Economics have not been identified.

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. In the 2024-2025 academic year, the management of the educational institution should focus the attention of potential applicants and students on the planned results and goals of the profile master's degree program, by forming flexible IC in close relationship with profile employers to ensure stable recruitment for programs. Responsible to appoint – heads of graduate departments, deans of the faculty, Director of the Department of Academic Policy, Vice-rector for Academic Affairs. To ensure the dissemination of information about specialized master's degree programs.

Additional recommendations for EP 7M04104 Economics:

1. In the 2024-2025 academic year, develop assessment criteria for all types of control provided for by academic disciplines, reflected in syllabuses.

2. In the 2024-2025 academic year, develop and ensure the implementation of a plan of training activities for teaching staff in the field of teaching based on modern achievements of world science and practice, the use of various modern teaching and assessment methods, the development and implementation of their own research in the field of teaching methods in the educational process; by the beginning of the 2025-2026 academic year, reflect the results obtained in the content to provide feedback on the effectiveness of their use by the end of the 2025-2026 academic year.

The conclusions of the WEC according to the criteria:

According to the standard "Student-centered learning, teaching and assessment of academic performance" EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures have the following positions:

"strong" - 0, "satisfactory" - 10, "suggests improvement" - 0 and "unsatisfactory" - 0;

EP 7M04104 Economy: "strong" - 0, "satisfactory" - 9, "suggests improvement" - 1 and "unsatisfactory" - 0.



6.6. The standard Students"

- The OE must demonstrate the existence of a policy for the formation of a contingent of students in the context of the educational institution, ensure transparency and publication of its procedures governing the life cycle of students (from admission to completion).
- The management of the educational institution should determine the order of formation of the contingent of students based on:
 - minimum requirements for applicants;
 - the maximum size of the group during seminars, practical, laboratory and studio classes;
 - forecasting the number of government grants;
 - analysis of available logistical, information resources, human resources;
 - analysis of potential social conditions for students, including the provision of places in the dormitory.
- The management of the educational institution should demonstrate its readiness to conduct special adaptation and support programs for newly enrolled and foreign students.
- The OE must demonstrate compliance of its actions with the Lisbon Recognition Convention, 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 OE 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 OE should provide an opportunity for external and internal mobility of students of the educational institution, as well as readiness to assist them in obtaining external grants for training.
- The management of the educational institution should demonstrate its readiness to provide students with internship places, promote the employment of graduates, and maintain communication with them.
- The OE should provide for the possibility of providing graduates of the educational institution with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion.

The evidentiary part

KarIU has a policy of forming a contingent of students in the context of accredited educational institutions from admission to graduation and ensures transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) are defined, approved, and published in the following LNA:

1. SMK SrT II.8-01.01-2021 "Managing the selection process of applicants",
2. SMK SrT II.8-02.02-2021 "Managing the learning process",
3. SMK SrT II.8-02.03-2021 "Educational process management",
4. QMS P 4 – 53 – 2022 "Regulations on the internal quality assurance system of NJSC "Karaganda Industrial University",
5. Academic policy of KarIU.

The front office (Admissions Committee) carries out the formation of a contingent of students, it acts in accordance with the Standard Rules for admission to educational organizations that implement educational programs of higher and postgraduate education. The LRA QMS PP 15-58-17.11-2023 "Regulations on the Admission Committee of NJSC KarIU" reflects the status of the admission committee, functional responsibilities, terms of authority and responsibility.

OP 7M07105 - ITO, 7M07302 – TaTDBaS, 7M04104 – Economics, accepts persons with higher education who have passed a comprehensive test (CT), the scores of which correspond to the established norm.

Admission of foreigners to the magistracy is carried out on a fee basis. Educational documents issued by foreign educational organizations undergo the nostrification procedure in accordance with the procedure established by law after enrollment of persons during the first semester of study.

Informing students about the requirements of the educational program and the specifics of its implementation is provided through career guidance. The system

In order to inform students about the requirements of the educational program, on the basis of the Plans of career guidance approved annually by the rector, QMS P 4-28-1-2019 "Regulations on career guidance", departments conduct agitation. The University cooperates with both traditional mass media (mass media) and media relations on the Internet.

The policy of forming a contingent of students in EP 7M07105 - ITO, 7M07302 – TaTDBaS, 7M04104 - Economics consists in admitting persons who are most prepared for graduate studies, who consciously chose EP, who scored the required number of points based on the results of comprehensive testing.

The management of EP 7M07105 - ITO, 7M07302 – TaTDBaS, 7M04104 - Economics

organizes additional consultations on the disciplines included in the comprehensive master's degree testing and a foreign language.

Table 2 - The contingent of students in the context of educational programs (admission to the 1st year)

№	Name of the EP	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
		Total (contract)	Total (contract)	Total (contract)	Total	Total
1	7M07105 - ITO	-	-	-	-	-
2	7M07302 – TaTDBaS	-	-	1	-	-
3	7M04104 - Economy	1	3	-	-	-

Students on a competitive basis have the opportunity to become holders of educational grants and scholarships from KarIU, depending on the number of points. Grants and discounts for training are provided on the basis of an analysis of the documents submitted by the applicant. The conditions for participation in the competition for an educational grant, scholarships and benefits are posted on the university's website in QMS P3-01-2021(<https://drive.google.com/file/d/1nGunrCmUUL4IPctvD8Y2Z1QnZ87YGRUT/view>).

KarIU recognizes higher education qualifications, periods of study and prior studies, including the recognition of non-formal and informal learning, which are based on ensuring action in accordance with the Lisbon Convention on the Recognition of Qualifications Related to Higher Education in the European Region.

In accordance with the Academic Policy of KarIU and the Rules of Transfer and Rehabilitation of students (QMS P 4-33-2022), the student has the right to transfer disciplines previously mastered by him in other educational institutions.

The QMS P4-42-2020 "Regulation on recognition of learning outcomes in non-formal education" sets out the procedure for recognizing the results of academic mobility of students, as well as the results of additional, formal and informal learning.

QMS P 4-24-2021 Regulations on academic mobility of NJSC "Karaganda Industrial University" regulates the mechanism of recognition of learning outcomes mastered during academic mobility. The coordination of academic mobility programs at the university is carried out by DAP and DNIIMS.

Coordination and general guidance on the organization and conduct of professional practices are carried out by the departments, DAP and DNIIMS. Practical training programs are developed by the graduating department and are reflected in the educational and methodological complex of professional practices.

According to EP 7M07105 - ITO, there are four contracts for professional practice: with TOO "Eurasia Machinery", with LLP "Imstalcon-Temirtau", LLP "Inkar – I", LLP foreign enterprise "Borusan Makina Kazakhstan".

According to OP 7M07302 – TaTDBaS, there are two contracts for professional practice: with TOO "Nura Energy", with LLP "Samrat Stroy".

According to 7M04104 - Economics, there are contracts for professional practice: with JSC "Halyk Bank of Kazakhstan", LLP "Ayan", JSC "Qarmet".

The management of the EP provides graduates of the EP with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion. Each graduate receives a diploma of the established standard with a transcript in 3 languages indicating the amount of subjects mastered in credits and a European diploma supplement.

The analytical part

In general, the information presented in the self-report in the context of this standard was confirmed during the visit of the EEC, with the exception of several aspects.

The analysis of the studied EP documents, as well as the results of interviews with students, teaching staff, and graduates, allowed us to conclude that the opportunities for external and internal mobility of EP students are insufficient at the university. During the analyzed period (since 2019), students did not participate in external and internal academic mobility programs, either at universities in Kazakhstan or abroad.

The EEC Commission notes the lack of participation of students in competitions for external grants and international competitions. Therefore, there is an objective need to include such indicative indicators in the development plans of educational programs as: "participation of students in competitions for obtaining external grants for training.

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

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design, 7M04104 Economics have not been identified.

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. In the 2024-2025 academic year, the management of the educational institution will strengthen career guidance, include specific indicative indicators for the recruitment of students, develop a career guidance plan for accredited educational institutions and begin its implementation. Responsible to appoint – heads of graduate departments, deans of the faculty, Director of the Department of Academic Policy, Vice-rector for Academic Affairs.

2. In the 2024-2025 academic year, the management of the educational institution should include indicative indicators in the development plans of educational programs, in the work plans of departments and implement the points: "participation of students in competitions to receive external grants for training." To appoint as responsible – the Director of the Department of Academic Policy, the Director of the Department of Science, Innovation and International Cooperation.

The conclusions of the EEC according to the criteria:

According to the standard "Students" EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics have the following positions: "strong" - 0, "satisfactory" - 11, "suggests improvement" - 1 and "unsatisfactory" - 0.

6.7. The standard "Teaching staff"

- The OE must have an objective and transparent personnel policy, including in the context of the OP, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff.
- The OE must demonstrate that the staff potential of the teaching staff corresponds to the specifics of the EP.
- The management of the EP must demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.
- The management of the educational institution should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning.
- The OE should determine the contribution of the teaching staff to the implementation of the OE development strategy and other strategic documents.
- The OE should provide opportunities for career growth and professional development of the teaching staff of the EP.
- The management of the EP should demonstrate a willingness to involve practitioners from relevant industries in teaching.
- The OE should demonstrate motivation for the professional and personal development of the teachers of the educational institution, including encouragement for the integration of scientific activity and education, the use of innovative teaching methods.
- An important factor is the willingness to develop academic mobility within the framework of the OE, to attract the best foreign and domestic teachers.

The evidentiary part

The personnel policy of KarIU is reflected in the Charter, the collective agreement, the rules of the labor regulations, the Regulation "On competitive replacement of positions of the teaching staff and researchers of the University" and other internal regulations and rules. All documents regulating the personnel policy can be found on the university's website.

Recruitment and distribution of responsibilities is carried out in accordance with the Regulation of the QMS P 4-19-2020 "Rules for competitive replacement of positions of faculty and researchers of the KarIU" (https://drive.google.com/file/d/1kt5LZmzQ_zi3VwI5JnwZn7N3XNaKnS-q/view), the Regulation of the QMS P 4-20-2022 "On the qualification characteristics of positions of scientific and pedagogical workers" (https://drive.google.com/file/d/1OqfJOMzs26S8mlWmAu_pAzUknfUdXINb/view), The Regulation of the QMS P 4-40a-2022 "On the rating assessment of the PS and the staff of the NAO CarIU and the competitions "The best department", "The best faculty". "The best Unit" (<https://drive.google.com/file/d/11XnYa5-88SgobIM0p6BIqCe2jN50pFBr/view>), internal regulations, orders and orders of the rector.

The regulation on the qualification characteristics of the positions of scientific and pedagogical staff of NJSC KarIU was developed in order to establish an effective personnel policy with extensive use of democratic, legal and economic methods of formation, to provide conditions for initiative and independence, legal and social protection of an employee, taking into account his individual abilities and professional knowledge, and to increase mutual responsibility of the parties.

The NJSC KarIU has developed job descriptions (DI) for the head of the department and all teaching staff positions. Job descriptions are updated at the beginning of the academic year and all teaching staff, after familiarization, put their signature.

In its activities on the admission of employees, appointment, dismissal, suspension from teaching, CarIU is guided by the current regulatory legal acts of the Republic of Kazakhstan, the Charter of the NJSC KarIU, internal documents of the QMS in the field of personnel policy.

Personnel transfers (admission, transfer, dismissal, etc.) are carried out in accordance with the Labor Code of the Republic of Kazakhstan and other normative legal acts, while observing the principles of transparency, meritocracy, accessibility and exclusion of corruption, for the further development of the university's personnel policy. Termination and termination of the employment contract is executed by order of the rector.

The competence model of the University teaching staff is presented in the QMS P 4-20-2022 "Regulations on the qualification characteristics of positions of scientific and pedagogical workers" (https://drive.google.com/file/d/1OqfJOMzs26S8mlWmAu_pAzUknfUdXINb/view), which also reflects the differences between the requirements for teaching staff holding positions of different skill levels.

The need for the professional qualification level of teaching staff is determined by the

direction of training of students and licensing requirements. To implement the accredited OP, persons with professional education of the appropriate profile are involved, whose qualification level corresponds to the specifics of the accredited EP. The training programs are carried out by the following categories of teaching staff: teachers with academic degrees and titles (doctors, candidates of sciences), PhD doctors, teachers-masters. Professors, associate professors, PhD doctors with at least 3 years of practical experience in the field are allowed to give lectures. Master's teachers are not allowed to give lectures.

The staff of the teaching staff of the departments is formed based on the volume of the academic load of the department and the contingent of students. To date, 12 teachers work at the TMaT department, including 5 candidates of Sciences, 2 doctors of Philosophy (PhD), 3 masters. The academic staff of the department is 58% settled.

The Department of EaB currently employs 15 people, of whom 1 is a doctor of sciences, 5 are candidates of sciences (40% of the degree), 9 are masters (60%), two are studying for a PhD.

The main staff of the Department of Construction consists of: 12 people, including: 1 Doctor of Sciences, 3 candidates of Sciences, 1 Phd – 42%; 7 masters, which is 58%.

Table 3 - Quantitative and qualitative composition of full-time teaching staff of the TMaT department according to EP 7M07105 Engineering of technological equipment in the 2023-2024 academic year

Total staff of teaching/rates	including:				% of full-time teaching staff with academic degrees
	tutor	PhD	к.т.с.	д.т.с.	
6/3,75	-	2	4	-	100%

Table 4 - Quantitative and qualitative composition of full-time teaching staff of the Department of Construction according to 7M07302 Theory and technology of design of buildings and structures in 2023-2024 academic year

Total staff of teaching/rates	including:				% of full-time teaching staff with academic degrees
	Tutor	PhD	к.т.с.	д.т.с.	
8/	2	1	3	2	86%

Table 5 - Quantitative and qualitative composition of full-time teaching staff of the Department of Economics according to 7M04104 Economics in 2023-2024 academic year

Total of the teaching staff	including:				% of full-time teaching staff with academic degrees
	tutor	PhD	к.т.с.	д.т.с.	
14	8	-	5	1	43%

Table 6 - Quantitative and qualitative composition of the teaching staff of the department in the context of EP

Quantitative and qualitative indicators

№	Academics	Professor of the Higher Attestation	K.t.s.	Senior lecturer - Master	Senior lecturer	The teacher is a magician	Total full-time teaching staff	Part-timers				Staffing	Settling down, %
								prof	K.t.s.	St. Rev., Master	total		
EP 7M07302 – "Theory and technology of design of buildings and structures"													
1	-	2	2	1	2	1	8	-	-	3	3	11	45
EP 7M07105 - Process equipment Engineering													
2	-	-	7	4	-	2	13	-	-	-	-	-	54
EP 7M04104 Economy													
3		1	5	8			14			1	1	93	43

All teachers of the two departments have a basic education corresponding to the disciplines taught. The selection and recruitment of teaching staff is carried out by competition, in accordance with basic education and practical work experience. The share of settled full-time teachers at the Department of Technological Machines and Transport is 100%. The number of teachers leading the core disciplines of EEC is 8 people, all of them have basic education. The level of academic staff at the Department of Economics and Construction is 86%, classes are conducted only by doctors and candidates of sciences.

The hiring and evaluation of teachers of practitioners takes place in accordance with the regulation of the QMS 4-19-2020 "Rules for competitive replacement of positions of teaching staff and researchers of Karaganda Industrial University" (https://drive.google.com/file/d/1kt5LZmzQ_zi3VwI5JnwZn7N3XNaKnS-q/view) and in accordance with the branch of economics educational programs.

The department is staffed with qualified teaching staff (according to the staffing table) for the entire period of study, the staff is stable, staff turnover is imaginary.

In order to improve the quality of educational services of higher and postgraduate education that meet the needs of the labor market, the tasks of industrial and innovative development of the country and ensure close relationship with production, part-time teachers with academic degrees and titles, as well as specialists from production are invited to the university.

In accordance with the Law of the Republic of Kazakhstan "On Education", all teachers undergo advanced training at least once every 5 years, including on the national and international level. Information about the professional development of teaching staff is posted on the "teacher profile" tab on the university's website and in the personal files of employees.

Professional development plans are being developed for the teaching staff for each year. The professional development plan includes all types of internships, PC courses, doctoral studies, etc.

During the period from 2020 to 2023, the teaching staff of accredited EP underwent advanced training (Table 7).

Table 7 - Professional development of teaching staff

PC Level	Quantity		
	2020-2021	2021-2022	2022-2023
Department of Technological Machines and Transport			
Intra-university			
Republican		12	15

International	5 (онлайн)	1+4 (онлайн)	
Total			
Department of Construction			
Intra-university	2	4	1
Republican	7	8	2
International	3	2	-
Total	10	14	3
Department of Economics			
Intra-university	8	14	10
Republican	11	10	5
International	2	13	3
Total	13	23	6

In accordance with the Law of the Republic of Kazakhstan "On Education", all teachers undergo advanced training at least once every 5 years, including on the national and international level. Teaching staff of the Institute at advanced training courses is carried out annually in specialized training centers of the Republic of Kazakhstan. Certificates and certificates of advanced training of teaching staff are placed in AIS Platonus and in the personal files of employees. In particular, in 2022, the head of the TMaT Department, K.A. Nogaev, completed a scientific internship under the Presidential Bolashak Program at NUST MISIS (Russian Federation).

The TMaT department, which implements EP 7M07105 – ITO, implements 5 grant scientific and technical projects funded by the MNiVO Science Committee for a total amount of 266 million tenge.

1. AP14972831 - Study of the structure and properties of experimental aluminum matrix composites reinforced with metal carbides and silicon production waste (15 million tenge), head - Abishkenov M.Zh.;

2. AP15473081 - Development of an integrated technology for the production of road construction materials based on blast furnace waste (19 million tenge), head - Kunaev V.A.;

3. AP19677907 - Study of the effect of micro/nanoparticles, industrial waste and shear on the quality of metal blanks for mechanical engineering (73 million tenge), head – Ashkeev Zh.A.;

4. AP19674502 Development and research of a technological method for implementing intense shear deformations during rolling in calibrated rolls (70 million tenge), head – Nogaev K.A.

5. AP19678263 Rational use of man-made waste from metallurgical industries (89 million tenge), head - V.A. Romanov

The Department of EaB is working on a contractual project for the provision of services on the topic: "Development of a feasibility study for the construction of a plant for the production of power flexible cable."

In 2019-2023, according to the results of scientific research by the faculty of the TMaT department implementing OP 7M07105 – ITO, 147 articles were published in scientific journals, in collections of proceedings of international and national conferences, including 23 articles published in scientific publications indexed in the Web of Science database & Scopus.

In 2023, the teaching staff of the Department of Construction carried out research work: "Inspection and repair of structures of the Saburkhan Central Research Institute", which was attended by undergraduates of the department. The purpose of the work is to develop recommendations for the operation and repair of buildings. As a result, 2 patent applications were filed.

In 2016-2020, the leading teachers of the department published works, the number is indicated in Table 8.

Table 8 - Scientific publications of the teaching staff of the department " TaTDBaS " for the

period 2016-2020.

Publications: with non-zero impact factor, etc.	2020/2021	2021/2022	2022/2023
TMaT Department			
WoS, Scopus	4	7	8
RSCI			
KKSON		3	4
university journals and other publications of the Republic of Kazakhstan	8		2
Patents, AC	6	1	2
Textbooks, study guides	3	2	4
Monographs			1
Total	21	13	21
Department of Construction			
WoS, Scopus	4	3	6
RSCI	15	16	11
KKSON	2	3	1
university journals and other publications of the Republic of Kazakhstan	6	4	2
Patents, AC	-	-	2
Textbooks, study guides	2	1	1
Monographs	4	1	-
Department of Economics and Business			
WoS, Scopus	1	2	5
RSCI	11	19	14
KKSON	3	5	4
university journals and other publications of the Republic of Kazakhstan	11	18	18
Patents, AC	1	1	1
Textbooks, study guides	5	3	22
Monographs	5	4	2

The systematic assessment of the competence of teachers by the university administration is carried out by conducting open training sessions, mutual visits to classes, as well as conducting a questionnaire "Teacher through the eyes of a student". The results of these events serve as the basis for the extension of teaching staff employment contracts, promotion, and participation in the annual republican competition "The Best University Teacher". Associate professor of the TMaT department Ashkeev Zh.A. is the holder of the title "Best University teacher – 2021".

The management of accredited educational institutions involves practitioners of relevant industries in teaching. At the moment, teachers with significant experience in the relevant industries are working at the departments of TMaT and Construction on a permanent basis. For example, Professor of the TMaT Department, Ph.D. Romanov V.I., has many years of experience in engineering positions at QARMET JSC. The staff of the EaB department includes teachers who previously worked in production: senior lecturer Akmaganbetova A.S. - work experience of more than 10 years in the field of finance and economics; Latypova M.A. - accountant practitioner, work experience of more than 15 years, certified accountant, tax consultant of the 1st category, annually takes advanced training courses organized by professional organizations of accountants; Tatueva M.A. has extensive experience as a patent engineer.

Currently, the Department of Construction employs production teachers with an academic

degree of Master of Science: Abdiyusupov A.G., Altaybaev A.A.

The analytical part

In general, it can be concluded that the activities of the three departments "Technological machines and Transport", "Construction", "Economics" 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 University makes a significant contribution to the implementation of the university's development strategy. The opportunity for career growth and professional development of teaching staff has been created.

Almost all representatives of employers, as well as the graduate, in interviews with IAAR experts, along with a positive assessment of accredited EP, noted the insufficient updating of the content of disciplines in accredited master's degree programs in terms of taking into account modern requirements for the production activities of graduates. During the interview, the graduate pointed out that "theory is somewhat lagging behind practice."

However, the Commission notes that the following issues regarding this standard are not fully reflected. In particular, the full involvement of teaching staff in the development of strategic documents for the development of the university has not been ensured, and the tools for stimulating the initiative of teaching staff of accredited universities in strategic areas of development are not clearly spelled out.

During the visit, the experts of the EEC established according to this standard that all three departments have 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 educational institutions needs to increase the level of academic mobility of teaching staff and research work.

The management of the EP has not sufficiently presented an action program aimed at developing academic mobility and attracting the best foreign and domestic teachers to conduct joint research on the profile of the EP in the implementation of accredited educational programs.

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

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design, 7M04104 Economics have not been identified.

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. During the 2024-2025 academic year, to provide tools to stimulate the initiative of teaching staff of accredited universities in the strategic directions of the development of KarIU, to ensure the full involvement of teaching staff in the development of strategic documents for the development of the university. The deadline is 1 year. Responsible to appoint – heads of graduate departments, deans of the faculty, Director of the Department of Academic Policy, Vice-rector for Academic Affairs.

2. During the 2024-2025 academic year, develop an action plan for the development of academic mobility and the involvement of the best foreign and domestic teachers in conducting joint research on the profile of EP in the implementation of accredited educational programs. The deadline is 1 year. To appoint as responsible – the Director of the Department of Academic Policy, the Director of the Department of Science, Innovation and International Cooperation.

The conclusions of the EEC according to the criteria:

According to the standard "Teaching staff" EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics have the following positions: "strong" - 0, "satisfactory" - 8, "suggests improvement"

- 1 and "unsatisfactory" - 0.

6.8. The standard "Educational resources and student support systems"

- The OE must ensure a sufficient number of educational resources and student support services to ensure that the goal of the EP is achieved.
- The OE 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 educational institutions (adults, working, foreign students, as well as students with disabilities).
- The management of the educational institution should demonstrate the availability of support procedures for various groups of students, including information and counseling.
- The management of the EP must demonstrate compliance of information resources with the specifics of the EP, including:
 - technological support for students and teaching staff (for example, online training, modeling, databases, data analysis programs);
 - library resources, including the collection of educational, methodological and scientific literature on general education, basic and specialized disciplines on paper and electronic media, periodicals, access to scientific databases;
 - examination of research results, graduation papers, dissertations for plagiarism;
 - access to educational Internet resources;
 - the operation of WI-FI in the territory of the educational organization.
- The OE demonstrates planning for the provision of educational equipment and software similar to those used in the relevant sectors of the economy.

The evidentiary part

The material and technical base of EP 7M07105 Engineering of technological equipment, EP 7M07302 Theory and technology of designing buildings and structures, 7M04104 Economics allows for all types of practical work, disciplinary and interdisciplinary training, practical and research work of students corresponding to sanitary and epidemiological requirements for educational facilities, approved by the Order of the Minister of Health of the Republic of Kazakhstan dated August 5, 2021 No. KR DSM-76 On Approval of Sanitary Rules "Sanitary and epidemiological requirements for educational facilities" (as amended on 02/04/2023). Students and teaching staff of the University are provided with dormitories in accordance with the Regulation of the QMS P 4-23-2022 "On the student dormitory of Karaganda Industrial University".

The needs for information and logistical resources are determined taking into account the Standard Rules of activity of organizations of higher and (or) postgraduate education (Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 30, 2018 No. 595).

KarIU has 6 educational and laboratory buildings with a total area of 44.01 thousand sq.m., which houses classrooms, specialized classrooms and laboratories, the university Museum, the Center for Information Technology and Telecommunications, 20 computer classrooms. The university's sports complex, with a total area of 2,300 sq. m., includes 6 game halls for volleyball, basketball, and football (a large game room; a small game room; a wrestling and shaping hall; a special medical hall; a weightlifting hall; a table tennis hall) and 2 outdoor playgrounds.

The fleet of modern computing equipment consists of more than 400 units. For students of all ages, all types of training sessions, including calculus, term papers and theses, and projects are supported by software packages - Mathcad, Matlab, KOMPAC, DEFORM, etc.

The university has free Internet access for students, teachers and staff, Wi-Fi zones, and the university's website - <https://tttu.edu.kz> /.

One of the main advantages of the university is the availability of a modern educational and scientific laboratory base, which includes the only experimental industrial sites in the Republic of Kazakhstan with semi-industrial units and installations reproducing a closed cycle of metallurgical processes and metalworking processes. The University has an Engineering Laboratory "Electron Microscopy and Nanotechnology".

The departments of TMaT, Construction and EaB, which implement accredited EP 7M07105 - ITO, 7M07302 - TaTDBaS, 7M04104 – Economics, have sufficient material and technical base, which allows to fully provide laboratory practice for all studied disciplines. The total area of the educational and laboratory premises of the TMaT department is 600 sq.m

. The departments have laboratory and research stands.

The specialized laboratories of the department are equipped with laboratory stands and

equipment necessary for the implementation of the goals of EP 7M07105 - ITO:

- 1) Laboratory of lifting, transport and construction machinery - auditorium N-003.
- 2) Laboratory of Metallurgical machinery and equipment, hydraulic drive and Mechanical Engineering Technology - auditorium IV-104.
- 3) Laboratory of repair, installation and operation of machinery and equipment - auditorium IV-102.
- 4) Specialized audience of technological machines – audience N-006.
- 5) Specialized audience of transport equipment – audience N-002.
- 6) The specialized audience of new technologies is the H-113 audience.

In 2023, on the basis of the laboratory "Computer Graphics and CAD" of the TMaT department, a "Center for Digital Engineering in Engineering and Technology" was created, designed to form students with digital competencies necessary to carry out design, research and production process management using modern digital engineering technologies.

The center is equipped with modern digital technology (10 computers, an interactive whiteboard, 7 smart TVs, etc.). Within the framework of the center's activities, the university closely cooperates with leading manufacturers of software products in the field of digital engineering, such as ANSYS, Autodesk, DEFORM, ASCON, etc.

The TMaT department is working on the creation of a research laboratory, which will be used for conducting experimental research by teaching staff and students. Repairs were carried out to the laboratory premises, electrical work was carried out to connect experimental installations. Modern equipment and devices were purchased for the laboratory at the expense of grant funding for scientific and technical projects of the department.

There are 6 specialized educational laboratories and classrooms equipped with the necessary equipment, tools, and visual aids for the implementation of the EP.

Table 9 - Specialized classrooms and laboratories used in the implementation of EP 7M07105 - Engineering of technological equipment of the department

Учебные кабинеты	The total area of the premises (sq. m)	Number of seats	Logistical support
EP 7M07103 - Process Equipment Engineering			
N-113 is a specialized audience	64,35	20	CNC machines (milling and laser), TV screen.
N-110 – Center for Digital Engineering in Engineering and Technology	64,35	20	Computers complete with a TV screen (10 pcs.), Interactive whiteboard, 3D printer, 3D scanner
N-03 – Laboratory of technological machines	64,35	20	Operating stands – Overhead crane, Conveyor belt, Crushing and screening complex, classifier
N-010A – Research Laboratory	33	5	Testing machine, Heating furnace, melting furnace, tools, lifting mechanism, rolling stand
N-06 - Specialized audience	50	20	Layouts of technological machines

The Department of Construction has a material and technical base (classroom fund, computer classes, laboratories, instrumentation, stock materials) that meets current sanitary and technical standards and ensures all types of theoretical and practical training provided for in the curriculum, as well as the effective performance of research and experimental research work of a graduate student.

Table 10 – Information on the availability of modern equipment in specialized laboratories of the Department of Construction

№ п/п	Name (office, laboratory, workshop)	The name of the educational and laboratory equipment for the implementation of the educational process
1	Educational and Scientific Laboratory of Geotechnics (№ H-009; 28,1 m ²)	A stand for modeling deformations of the base
2	Computer class (№ H-305; 47,2 m ²)	5 computers, a scanner
3	Laboratory of building Materials (№ H-010; 60,4 m ²)	MTZ agitator, a set of sieves for determining the granulometric composition of the soil, a drying cabinet, a table for testing the cone of the concrete mixture, a TISO ultrasonic device included, a box (metal), mortar No. 4 (d110, h50mm), a standard Kashkarov hammer for assessing the strength of reinforced concrete products, an electronic strength measuring device of the LC IPS MG-4, Le Chatelier device for density determination, pycnometer, MG4U moisture meter, VIC device, vibrating table, cone for determining the mobility of concrete mix on dense and porous aggregates, electronic scales (error 1 g), profometer 5S, Aistov's deflection meter 6PAO
4	Laboratory of Soil Mechanics (№ H-307; 48,5 m ²)	<ol style="list-style-type: none"> 1. Triaxial compression device. 2. The shear device 3. Compression device 4. Odometers 5. Stabilometers

Undergraduates of EP 7M07302 – TaTDBaS also have access to CarIU computer classes connected to the Internet. Computer time for 1 undergraduate student per year is not normalized, due to full availability to work on a PC.

The analysis of the material and technical resources of the OP is carried out annually at a meeting of the department at the end of the academic year. The results of this analysis are summarized in the Act of readiness of departments. Questions about the provision of educational, scientific and methodological literature, as well as the improvement of the laboratory base of the university are considered at a meeting of the Academic Council/

Various student support services are organized in CarIU, such as the Student Service Center, the Registrar's Office. The Registrar's office provides academic support to students in choosing and mastering an educational program, calculates the student performance rating, and issues transcripts to students upon their request.

The management of the university and the management of the Educational institution carry out support procedures for various groups of students, including information and counseling. Before starting their studies at the university, all students have the opportunity to get acquainted with the university by studying the guide book on the University (<https://ttu.edu.kz/ru/spravochnik-putevoditel-2/>)

Undergraduates, in case of problems related to the educational process, can contact the dean's offices. According to the Regulation of the QMS P 4-18-2021 "Regulations on dealing with student complaints"

Web portal. The web portal contains information by sections: University, Applicant, Education, Student, Partners, Science, News, Staff, Library, Statistics, e-doc, Hotline, Platonus, Moodle. On the website you can get information about PPP, CAD, MOS, etc. The information in the tabs is relevant.

Library fund. The total area of the library premises is 1263.4 m², the reading room is 443 m² with 42 seats, the subscription and periodicals room is 623 m², the book depository is 197.4 m². The entire library's book collection is concentrated in the main building

The total book fund of the library as of 01.01.2024 is 296,520 copies; of which 115,409 copies are in the state language; 1,348 copies are in English; textbooks on electronic media make

up 23% of the total fund - 67,441 copies.

The library is open to readers during the working week from 9.00 to 18.00.

The provision of disciplines of all specialties with educational, educational and methodical literature, including on electronic and magnetic media, meets the qualification requirements for educational activities. Book availability in the context of specialties is presented in Table 11.

Table 11 - Book fund, including the fund of educational and scientific literature

№	EP	Educational		Scientific		Per person		
		literature		literature		training		
		(ед.)		(ед.)				
		In kz.	in rus.	In kz.	in rus.	In kz.	in rus.	Total
1	EP 7M07302	26	7	15	41	41	48	89
2	EP 7M07105	442	265	30	15	78	47	125
3	EP 7M04104	1299	2299	37	47	216	383	599

Magistrates studying under EP 7M07302 - Theory and technology of design of buildings and structures (profile direction) have the opportunity to gain practical skills at the branches of the department, for example, in one of the branches of the department in LOGOS-Montazhstroy LLP."

Undergraduates of the profile direction can practice on the basis of such companies as JSC "QARMET", JSC "TEMK", LLP "Kurylysmet", LLP "Martensstroy", etc., where they can put into practice the knowledge and skills regarding equipment and software acquired during laboratory work. The university ensures compliance with safety requirements in the learning process.

For the passage of professional practices of students, there are cooperation agreements with the following enterprises and educational organizations: for the passage of professional practices of students, there are bilateral cooperation agreements, information on which is given in table 12.

Table 12 - Organization of professional practices for students accredited by EP 7M07105 - Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics

EP	Organization, contract No., term of the contract, order No.
7M07105 - Инжиниринг технологического оборудования	Eurasian Machinery LLP agreement No.2021/2 dated 05/18/2021, valid for 3 years with automatic prolongation
7M07105 - Engineering of technological equipment	Imstalcon-T LLP agreement No.22/09/29 dated 09/29/2022, valid for 3 years with automatic prolongation
7M07105 - Engineering of technological equipment	Inkar-1 LLP contract No. 2022/16 dated 04/21/2022, valid for 3 years with automatic prolongation
7M07105 - Engineering of technological equipment	Borusan Makina Kazakhstan Foreign Enterprise LLP contract No.VMK-392-21 dated 09/29/2021, valid for 3 years with automatic prolongation
ОП 7M07302 - Theory and technology of design of buildings and structures	Memo dated 09/19/2022, Optimal Build Company LLP
7M04104 - Economy	JSC Halyk Bank of Kazakhstan No. 124 dated 12/13/2023 for three years, Order No. 13.03.02/36/2m dated 08/19/2022 Seidullaev D.M.
7M04104 - Economy	Ayan LLP Order No13-03-02/ 36m from 08/18/2023 Tsuprikova K.V.
7M04104 - Economy	JSC "Qarmet" Accounts Payable Department Order No13-0302/4m dated 08.01.24 Khramova T.V.

Information on the involvement of practitioners from production, practice bases in the context of EP is presented in table 13.

Tables 13 – Information on the involvement of practitioners from production, databases of practices in the context of EP

Intelligence	2020-2021	2021-2022	2022-2023
EP 7M07302			
The number of practitioners involved in teaching disciplines	2	3	2
Number of practice bases	5	5	5
Number of branches of the department	1	1	1
EP 7M07105			
The number of practitioners involved in teaching disciplines			
Number of practice bases	2	4	4
Number of branches of the department			
EP 7M04104			
The number of practitioners involved in teaching disciplines	1	3	3
Number of practice bases	6	7	3
Number of branches of the department	1		

The procedure for supporting students with disabilities is regulated by the regulation of the QMS P 4-50-2021 "Regulations on the organization of inclusive education for persons with disabilities in the NJSC "Karaganda Industrial University" (<https://drive.google.com/file/d/1HJnsKroZxI9u6iB92Pq2VITj5-xXV8bt/view>).

The analytical part

The accredited educational institution has established a fund of educational, methodological and scientific literature on general education, basic and profile disciplines of educational programs on paper and electronic media; updating of literature collections in accordance with the norms defined by the qualification requirements for licensing.

KariU has concluded an individual agreement with Renga Softwea LLC dated 08/05/2021 on the provision of a simple license for the use of Renga family software.

KariU also signed an agreement on scientific and technical cooperation dated 03.10.2022 with Midas LLC on the use of MIDAS software.

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

In addition, the experts of the EEC noted the need to create specialized laboratories for students 7M07302 Theory and technology of designing buildings and structures for estimated pricing and rationing using modern software and logistical equipment.

Taking into account the concluded contracts for the passage of all types of professional practices, the EEC commission noted the need for targeted work to further expand the base of partner enterprises for OP 7M07302 and training at the bases of partner enterprises.

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

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design, 7M04104 Economics have not been identified.

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. During the 2024-2025 academic year, the management of the EP will analyze the available material and technical resources for compliance with the established goals, as a result of which it will develop and begin implementing a plan to purchase the necessary equipment and modern software tools similar to those used in the relevant sectors of the economy of the Republic of Kazakhstan. The deadline is 2 years. Responsible to appoint - heads of graduate departments (to analyze and identify the necessary needs), vice-rector for strategic development.

The conclusions of the EEC according to the criteria:

According to the standard "Educational resources and student support systems" EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics have the following positions: "strong" - 0, "satisfactory" - 9, "suggests improvement" - 0 and "unsatisfactory" - 0.



6.9. The standard "Informing the public"

- ОЕ должна опубликовать достоверную, объективную, актуальную информацию об образовательной программе и ее specifics that should include:
 - expected learning outcomes of the implemented educational program;
 - qualifications and/or qualifications that will be awarded upon completion of the educational program;
 - teaching and learning approaches, as well as the assessment system (procedures, methods and forms);
 - information about passing scores and educational opportunities provided to students;
 - Information about graduate employment opportunities.
- The management of the E should provide for a variety of ways to disseminate information, including the media, information networks to inform the general public and interested persons.
 - Public awareness should include support and clarification of the national development programs of the country and the system of higher and postgraduate education.
 - The OE 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 является информирование общественности о сотрудничестве и взаимодействии с партнерами в рамках ОП.

The evidentiary part

Informing the public and all interested parties of the KarIU is carried out in accordance with the Procedure for publishing about the activities of the university is regulated by an internal document of the QMS P-4-27-2022 "Regulations on informing the public" (<https://drive.google.com/file/d/1kjwoSsFDgABsXc1FwLZGnXKs-16FQJ8h/view>).

The management of EP 7M07105 - ITO, 7M07302 - TaTDBaS uses a variety of ways to disseminate information, including mass media, information networks to inform the general public and interested parties.

The information tools are: The Republican journal "Bulletin of the Karaganda State Industrial University" (<https://tttu.edu.kz/ru/vestnik-kgiu/>); CarIU website (<https://tttu.edu.kz/>); social networks (<https://www.facebook.com/profile.php?id=100022651051239&mibextid=ZbWKwL>), <https://vk.com/id378236673>, https://www.instagram.com/kariu_kz1/, <https://ok.ru/profile/579438130734>, https://www.youtube.com/channel/UCxgobaOnSnEzI78E4sb4xOA?view_as=subscriber); printed materials (brochures, booklets, etc.); reports; posters, stands; letters; feature articles in the media; press releases in the media; advertising in the media; surveys; Open days; excursions; seminars, conferences; exhibitions, fairs, interviews in the media, on radio or television; presentations; personal contacts with stakeholders, etc.

Information is updated on a regular basis, regulatory materials, modular educational programs are presented, and news is reflected.

The rector's blog works on the university's website, where students can leave their wishes and comments, have the opportunity to ask the rector a question directly using the feedback form (<https://tttu.edu.kz/ru/voprosi-i-otveti/>). The rector's blog provides feedback for students and their parents, employees, teaching staff, employers, and members of the public.

The CarIU website has published reliable, objective, up-to-date information about OP 7M07105 – ITO, 7M07302 – TaTDBaS, 7M04104 – Economics (<https://tttu.edu.kz/ru/obrazovanie/modulnie-obrazovatelnie-programmi/>).

The departments have information stands where photos and information about teachers, class schedules, requirements for graduation papers, as well as stands about educational work are posted.

The analytical part

During the analysis of the information provided on the website of the Karaganda Industrial University (<https://tttu.edu.kz/ru/russkiy/>), it was found that, in general, the site provides complete and reliable information about the areas of activity, the rules of admission of applicants, educational programs for students, terms and form of study, contact and news information for applicants and students.

However, it should be noted that information about the EP is not fully presented on the official website of the University, in particular, there is no information on the accredited EP 7M07302 Theory and technology of design of buildings and structures on the page about educational programs of the Faculty of Economics and Construction (<https://tttu.edu.kz/ru/obrazovatelnie-programmi-3/>). Similarly, there is no information on the page of the Faculty of Energy, Transport and Management Systems (<https://tttu.edu.kz/ru/fakultet-energetiki-transporta-i-sistem-upravleniya-obrazovatelnie-programmi-6-2/>) about the accredited EP 7M07105 Engineering of technological equipment.

Not all information about the university is presented in English.

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

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design, 7M04104 Economics have not been identified.

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. During the 2024-2025 academic year, the management of the EP should provide information, and the responsible person from the university should post information about the EP relevant to applicants on the faculty pages. The deadline is 1 year. Responsible to appoint - the heads of the graduating departments and the person responsible from the university.
2. During the 2024-2025 academic year, the responsible structural unit should ensure that content is maintained in 3 languages, and update all information in English. The deadline is 1 year. To appoint a responsible person is a person responsible from the university.

The conclusions of the EEC according to the criteria:

According to the standard "Informing the public" EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics have the following positions: "strong" - 0, "satisfactory" - 10, "suggests improvement" - 0 and "unsatisfactory" - 0.

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

According to the standard "Educational program Management":

Strengths/best practices according to EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures have not been identified.

Strengths/Best practice on EP 7M04104 Economics:

- The management of the EP has demonstrated its readiness for open and accessible interaction, both for students and teachers.

According to the Information Management and Reporting standard:

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and Technology of building and structure design:

- The existence of a reporting system reflecting the activities of all structural divisions and departments within the framework of the EP, including an assessment of their effectiveness, has been demonstrated.

The strengths/best practices of EP 7M04104 Economics have not been identified.

According to the standard "Development and approval of an educational program":

Strengths/best practices for OP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design, 7M04104 Economics have not been identified.

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

Strengths/best practices according to EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics have not been identified.

According to the standard "Student-centered learning, teaching and assessment of academic performance":

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design, 7M04104 Economics have not been identified.

According to the "Students" standard:

Strengths/best practices according to EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics have not been identified.

According to the standard "Teaching staff":

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design, 7M04104 Economics have not been identified.

According to the standard "Educational resources and student support systems":

Strengths/best practices according to EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics have not been identified.

According to the standard "Informing the public":

Strengths/best practices for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design, 7M04104 Economics have not been identified.



(VII) OVERVIEW OF RECOMMENDATIONS FOR QUALITY IMPROVEMENT FOR EACH STANDARD

According to the standard "Educational program Management":

Recommendations for R34 EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. In the 2024-2025 academic year, the management of the EP will identify the uniqueness and individuality of each individual EP based on its positioning as a competitive program capable of meeting the current and future needs of stakeholders; the identified features will be reflected in the content of the development plans of the EP.

2. In the 2024-2025 academic year, the management of the EP will review the development plans of the EP with the involvement of a wide range of stakeholders. The changes made should be reflected on the university's website and other sources of information for interested parties.

Additional recommendations for EP 7M04104 Economics:

1. Annually monitor the implementation of the EP development plan for the implementation of target indicators, assessment of the achievement of learning goals, compliance with the needs of stakeholders, and on this basis make decisions aimed at continuous improvement of the EP. The results of monitoring should be communicated to all interested parties.

2. Before the beginning of the 2024-2025 academic year, the university management should ensure that the heads of the EP and other persons involved in the management of the EP receive risk management training.

3. In the 2024-2025 academic year, conduct a detailed risk analysis in the context of EP, specify measures to reduce the impact of risks, specifying measurable performance indicators, responsible persons and deadlines for implementation.

4. In the 2024-2025 academic year, develop an action plan for the introduction of new innovative teaching and assessment methods into the educational process, including our own, as well as provide feedback on the effectiveness of their use.

According to the Information Management and Reporting standard:

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures:

1. The responsible structural unit of the KariU periodically replenish the university's website with necessary and relevant information about the employment and career growth of graduates in the context of all the university's educational institutions, as well as up-to-date information about the educational programs of EP 7M07105 - ITO, 7M07302 - TaTDBaS.

Recommendations for EP 7M04104 Economics:

1. The management of the university and the EP annually assess the EP on the basis of approved performance and efficiency indicators, make further management decisions based on facts.

According to the standard "Development and approval of an educational program":

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. By the beginning of the 2024-2025 academic year, the management of the EP will clarify the personal qualities and professional competencies in graduate models to ensure the uniqueness of the OP. The management of the EP should ensure the coordination of graduate models with leading industry partners corresponding to the specifics of the EP.

2. In the 2024-2025 academic year, update the Regulations on the development of modular educational programs, including requirements for experts, as well as the organization and conduct of internal and external expertise of the content of the EP, taking into account:

- compliance with the EP structure;
- relevance of the thematic content;

- compliance of expected learning outcomes with market requirements;
- availability of a competency-based assessment of learning outcomes.

3. The management of the EP should ensure regular external expertise from specialists who correspond to the specifics of the EP, with specific proposals.

4. By the beginning of the 2024-2025 academic year, determine the list of disciplines whose content is aimed at preparing students for professional, including international, certification. In the 2024-2025 academic year, make appropriate adjustments to the content of educational programs and academic disciplines, as well as establish links with organizations that carry out professional certification.

Additional recommendations for EP 7M04104 Economics:

1. In the 2024-2025 academic year, the management of the EP will review the content of the EP, including the expected learning outcomes, for compliance with the requirements of the modern labor market, taking into account the specifics of the region and the strategic directions of the country's economic development.

2. By the beginning of the 2024-2025 academic year, conduct a full audit of educational and methodological documentation, in particular educational and methodological complexes of disciplines, for compliance of their content with the declared learning outcomes and learning levels.

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

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. In the 2024-2025 academic year, monitor the effectiveness of assessment systems used by teachers in academic disciplines; make changes to syllabuses based on the results of monitoring.

Additional recommendations for EP 7M07105 Process Equipment Engineering, 7M07302 Theory and technology of building and structure design:

1. To ensure the updating of the content of disciplines by modern innovative achievements of science and technology for accredited students. Update the content of academic disciplines taking into account digitalization, taking into account the requirements of employers and the labor market. To expand the opportunities and ways to inform stakeholders about any planned or undertaken actions in relation to the EP and ensure their implementation and monitoring. Ensure that the results of the changes are published on the university's website. To appoint the heads of the graduating departments, the deans of the faculty, the Director of the Department of Academic Policy, the Vice-rector for Academic Affairs as responsible. The deadline is 1 year, during the 2024-2025 academic year.

Additional recommendations for EP 7M04104 Economics:

1. The management of the University annually monitors and evaluates the quality of the University, discusses the results of monitoring at meetings of collegial management bodies and publishes them on the university's website.

2. In the 2024-2025 academic year, implement a mechanism for timely informing teachers, employers and other interested parties about organizational decisions taken in relation to the OP, including, based on the results of monitoring and reviewing the content of the OP, using the official website of the university, etc.

According to the standard "Student-centered learning, teaching and assessment of academic performance":

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. In the 2024-2025 academic year, the management of the educational institution should focus the attention of potential applicants and students on the planned results and goals of the profile master's degree program, by forming flexible IOPS in close relationship with profile

employers to ensure stable recruitment for programs. Responsible to appoint – heads of graduate departments, deans of the faculty, Director of the Department of Academic Policy, Vice-rector for Academic Affairs. To ensure the dissemination of information about specialized master's degree programs.

Additional recommendations for EP 7M04104 Economics:

1. In the 2024-2025 academic year, develop assessment criteria for all types of control provided for by academic disciplines, reflected in syllabuses.

2. In the 2024-2025 academic year, develop and ensure the implementation of a plan of training activities for teaching staff in the field of teaching based on modern achievements of world science and practice, the use of various modern teaching and assessment methods, the development and implementation of their own research in the field of teaching methods in the educational process; by the beginning of the 2025-2026 academic year, reflect the results obtained in the content to provide feedback on the effectiveness of their use by the end of the 2025-2026 academic year.

According to the standard "Students":

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. In the 2024-2025 academic year, the management of the educational institution will strengthen career guidance, include specific indicative indicators for the recruitment of students, develop a career guidance plan for accredited educational institutions and begin its implementation. Responsible to appoint – heads of graduate departments, deans of the faculty, Director of the Department of Academic Policy, Vice-rector for Academic Affairs.

2. In the 2024-2025 academic year, the management of the educational institution should include indicative indicators in the development plans of educational programs, in the work plans of departments and implement the points: "participation of students in competitions to receive external grants for training." To appoint as responsible – the Director of the Department of Academic Policy, the Director of the Department of Science, Innovation and International Cooperation.

According to the standard "Teaching staff":

Recommendations for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures, 7M04104 Economics:

1. During the 2024-2025 academic year, to provide tools to stimulate the initiative of teaching staff of accredited universities in the strategic directions of the development of KarIU, to ensure the full involvement of teaching staff in the development of strategic documents for the development of the university. The deadline is 1 year. Responsible to appoint – heads of graduate departments, deans of the faculty, Director of the Department of Academic Policy, Vice-rector for Academic Affairs.

2. During the 2024-2025 academic year, develop an action plan for the development of academic mobility and the involvement of the best foreign and domestic teachers in conducting joint research on the profile of EP in the implementation of accredited educational programs. The deadline is 1 year. To appoint as responsible – the Director of the Department of Academic Policy, the Director of the Department of Science, Innovation and International Cooperation.

(VIII) RECOMMENDATION TO THE ACCREDITATION COUNCIL

The members of the EEC came to the unanimous opinion that EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures are recommended for accreditation for a period of 5 (five) years; EP 7M04104 Economics – for 3 (three) years.



Appendix 1. Evaluation table "Conclusion of the external expert commission" (for EP 7M07105 Engineering of technological equipment, 7M07302 Theory and technology of design of buildings and structures)

№ п\п	№ п\п	Evaluation criteria	The position of the educational organization			
			Strong	Satisfactory	Suggests improvement	Unsatisfactory
Standard 1 "Educational program Management"						
1	1.	The organization of higher and/or postgraduate education should have a published quality assurance policy that reflects the relationship between scientific research, teaching and learning		+		
2	2.	The organization of higher and (or) postgraduate education should demonstrate the development of a culture of quality assurance, including in the context of		+		
3	3.	Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including in the implementation of joint/double-degree education and academic mobility		+		
4	4.	The management of the EP demonstrates transparency in the development of a development plan for the EP, which contains a timeline for the start of implementation, based on an analysis of its functioning, the real positioning of the OE and the focus of its activities on meeting the needs of the state, employers, students and other stakeholders			+	
5	5.	The management of the EP demonstrates the existence of mechanisms for the formation and regular revision of the EP development plan and monitoring its implementation, evaluating the achievement of training goals, meeting the needs of students, employers and society, and making decisions aimed at continuous improvement of the operational		+		
6	6.	The management of the EP should involve representatives of groups of interested persons, including employers, students and teaching staff in the formation of a development plan for the EP			+	
7	7.	The management of the educational institution must demonstrate the individuality and uniqueness of the educational institution's development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education			+	
8	8.	The organization of higher and (or) postgraduate education must demonstrate a clear definition of those responsible for business processes within the framework of the EP, an unambiguous distribution of staff responsibilities, and the differentiation of functions of collegial bodies		+		
9	9.	The management of the educational institution must provide evidence of the transparency of the educational program management system		+		
10	10.	The management of the EP must demonstrate the existence of an internal quality assurance system for the EP, including its design, management and monitoring, their improvement, and fact-based decision-making		+		
11	11.	The management of the EP should carry out risk management, including within the framework of the EP undergoing primary accreditation, as well as demonstrate a system of measures aimed at reducing the degree of risk		+		
12	12.	The management of the educational institution should ensure the participation of representatives of employers, teaching staff, students and other interested persons in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educedational program		+		
13	13.	The OE should demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals		+		

14	14.	The management of the educational institution must demonstrate evidence of readiness for openness and accessibility for students, teaching staff, employers and other interested persons		+		
15	15.	The management of the EP should be trained in educational management programs		+		
Total according to the standard				12	3	
Standard 2 "Information management and reporting"						
16	1.	The OE should demonstrate the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools and that it uses a variety of methods to collect and analyze information in the context of the EP		+		
17	2.	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		+		
18	3.	The management of the EP should demonstrate fact-based decision-making		+		
19	4.	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	+			
20	5.	The OE should establish the frequency, forms and methods of evaluating the management of the EP, the activities of collegial bodies and structural divisions, senior management, and the implementation of scientific projects		+		
21	6.	The OE must demonstrate the definition of the procedure and ensuring the protection of information, including the identification of responsible persons for the reliability and timeliness of information analysis and data provision		+		
22	7.	. An important factor is the availability of mechanisms for involving students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them		+		
23	8.	The management of the EP should demonstrate the existence of a mechanism for communication with students, employees and other stakeholders, as well as conflict resolution mechanisms		+		
24	9.	The OE should demonstrate the existence of mechanisms for measuring the degree of satisfaction with the needs of teaching staff, staff and students within the framework of the EP		+		
25	10.	The OE should provide for an assessment of the effectiveness and efficiency of activities, including in the context of the EP		+		
		The information intended for collection and analysis within the framework of the EP should take into account:				
26	11.	key performance indicators		+		
27	12.	the dynamics of the student body in terms of forms and types		+		
28	13.	the level of academic achievement, student achievements and expulsion		+		
29	14.	student satisfaction with the implementation of the EP and the quality of education at the university		+		
30	15.	the availability of educational resources and support systems for students		+		
31	16.	The NGO must confirm the implementation of procedures for processing personal data of students, employees and teaching staff on the basis of their documentary consent		+		
Total according to the standard			1	15		
Standard 3 "Development and approval of an educational program"						
32	1.	The OE should define and document the procedures for the development of the EP and their approval at the institutional level		+		
33	2.	The management of the EP must ensure that the content of the OP meets the established goals, including the expected learning outcomes		+		
34	3.	The management of the EP must demonstrate the existence of mechanisms 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		+		
35	4.	The management of the EP should ensure the availability of developed models of the graduate of the EP, describing the learning outcomes and personal qualities		+		

36	5.	The management of the EP must demonstrate the conduct of external examinations of the content of the EP and the planned results of its implementation		+		
37	6.	The qualification awarded upon completion of the EP must be clearly defined and correspond to a certain level of NSC and QF-EHEA		+		
38	7.	The management of the educational institution should determine the impact of disciplines and professional practices on the formation of learning outcomes		+		
39	8.	An important factor is the possibility of training students for professional certification (IS)			+	
40	9.	The management of the EP must provide evidence of the participation of students, teaching staff and other interested parties in the development of the EP, ensuring its quality		+		
41	10.	The management of the educational institution should ensure that the content of academic disciplines and planned results correspond to the level of education (bachelor's, master's, doctoral studies)		+		
42	11.	The structure of the EP should provide for various types of activities that ensure that students achieve the planned learning outcomes		+		
43	12.	An important factor is the correspondence of the content of the EP and the learning outcomes of the EP implemented by organizations of higher and (or) postgraduate education in the EHEA		+		
Total according to the standard				11	1	
Standard 4 "Continuous monitoring and periodic evaluation of educational programs"						
44	1.	The OE should identify mechanisms for monitoring and periodic evaluation of the EP to ensure that the goal is achieved and the needs of students and society are met, and show the focus of the mechanisms on continuous improvement of the EP		+		
		Monitoring and periodic evaluation of the EP should include:				
45	2.	the content of the program in the light of the latest scientific achievements in a particular discipline to ensure the relevance of the discipline being taught		+		
46	3.	, changes in the needs of society and the professional environment		+		
47	4.	, the workload, academic performance and graduation of students		+		
48	5.	, the effectiveness of student assessment procedures		+		
49	6.	expectations, needs and satisfaction of students with learning in the EP		+		
50	7.	the educational environment and support services, and their compliance with the goals of the EP		+		
51	8.	The management of the EP should demonstrate a systematic approach to monitoring and periodic assessment of the quality of the EP		+		
52	9.	The OE, the management of the EP should define a mechanism for informing all interested parties about any planned or undertaken actions in relation to the EP.		+		
53	10.	All changes made to the EP must be published			+	
Total according to the standard				9	1	
Standard 5 "Student-centered learning, teaching and performance assessment"						
54	1.	The management of the educational institution should ensure respect and attention to different groups of students and their needs, and provide them with flexible learning paths		+		
55	2.	The management of the EP should provide for the use of various forms and methods of teaching and learning		+		
56	3.	An important factor is the availability of own research in the field of teaching methods of educational disciplines.		+		
57	4.	The management of the EP should demonstrate the availability of feedback mechanisms for the use of various teaching methods and evaluation of learning outcomes		+		
58	5.	The management of the educational institution should demonstrate the existence of mechanisms to support the autonomy of students with simultaneous guidance and assistance from the teacher		+		
59	6.	The management of the educational institution must demonstrate the existence of a procedure for responding to student complaints		+		

60	7.	The OE should ensure consistency, transparency and objectivity of the learning outcomes assessment mechanism for each EP, including the appeal		+		
61	8.	The OE should ensure that the procedures for evaluating the learning outcomes of EP students correspond to the planned results and goals of the program, and publish criteria and evaluation methods in advance		+		
62	9.	The OE should define mechanisms to ensure that each graduate of the EP achieves learning outcomes and ensures the completeness of their formation		+		
63	10.	Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area		+		
Total according to the standard				10		
The standard 6 «Student»						
64	1.	The OE must demonstrate the existence of a policy for the formation of a contingent of students in the context of the educational institution, ensure transparency and publication of its procedures governing the life cycle of students (from admission to completion)		+		
		<i>The management of the educational institution should determine the order of formation of the contingent of students based on:</i>				
65	2.	minimum requirements for applicants		+		
66	3.	maximum group size during seminars, practical, laboratory and studio classes		+		
67	4.	forecasting the number of government grants		+		
68	5.	analysis of available material, technical, information resources, human resources		+		
69	6.	analysis of potential social conditions for students, including the provision of places in the dormitory		+		
70	7.	The management of the educational institution should demonstrate its readiness to conduct special adaptation and support programs for newly enrolled and foreign students		+		
71	8.	The OE must demonstrate compliance of its actions with the Lisbon Recognition Convention, 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		+		
72	9.	The OE 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		+		
73	10.	The OE should provide an opportunity for external and internal mobility of students of the educational institution, as well as readiness to assist them in obtaining external grants for training			+	
74	11.	The management of the educational institution should demonstrate its readiness to provide students with internship places, promote the employment of graduates, and maintain communication with them		+		
75	12.	The OE should provide for the possibility of providing graduates of the educational institution with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion		+		
Total according to the standard				11	1	
Standard 7 "Teaching staff"						
76	1.	The OE should have an objective and transparent personnel policy, including in the context of the EP, including hiring, professional growth and development of personnel, ensuring the professional competence of the entire staff		+		
77	2.	The OE must demonstrate the compliance of the staff potential of the teaching staff with the specifics of the EP		+		
78	3.	The management of the EP must demonstrate an awareness of responsibility for its employees and ensure favorable working conditions for them		+		
79	4.	The management of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning		+		

80	5.	The OE should determine the contribution of the teaching staff of the EP to the implementation of the development strategy of the LLC, and other strategic documents		+		
81	6.	The OE should provide opportunities for career growth and professional development of teaching staff		+		
82	7.	The management of the educational institution should demonstrate its readiness to involve practitioners of relevant sectors of the economy in teaching		+		
83	8.	The OE should demonstrate the motivation for the professional and personal development of the teachers of the educational institution, including encouragement for the integration of scientific activity and education, the use of innovative teaching methods		+		
84	9.	An important factor is the willingness to develop academic mobility within the framework of the EP, to attract the best foreign and domestic teachers			+	
Total according to the standard				8	1	
Standard 8 "Educational resources and student support systems"						
85	1.	The OE must ensure that there are sufficient educational resources and student support services to ensure that the goal is achieved.		+		
86	2.	The OE 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 educational institutions (adults, working, foreign students, as well as students with disabilities)		+		
87	3.	The management of the educational institution should demonstrate the availability of support procedures for various groups of students, including information and counseling		+		
		<i>The management of the EP must demonstrate compliance of information resources with the specifics of the EP, including:</i>				
88	4.	technological support for students and teaching staff (for example, online training, modeling, databases, data analysis programs)		+		
89	5.	library resources, including a fund of educational, methodological and scientific literature on general education, basic and profile disciplines on paper and electronic media, periodicals, access to scientific databases		+		
90	6.	examination of research results, graduation papers works, dissertations on plagiarism		+		
91	7.	access to educational Internet resources		+		
92	8.	functioning of Wi-Fi on the territory of the educational organization		+		
93	9.	The EP demonstrates planning for the provision of educational equipment and software similar to those used in the relevant sectors of the economy		+		
Total according to the standard				9		
Standard 9 "Informing the public"						
		<i>The OE must publish reliable, objective, up-to-date information about the educational program and its specifics, which should include:</i>				
94	1.	expected learning outcomes of the implemented educational program		+		
95	2.	qualifications and (or) qualifications that will be awarded upon completion of the educational program		+		
96	3.	teaching approaches, training, as well as the system (procedures, methods and forms) of assessment		+		
97	4.	information on passing scores and educational opportunities provided to students		+		
98	5.	information about graduate employment opportunities		+		
99	6.	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 persons		+		
100	7.	Public awareness should include support and clarification of the national development programs of the country and the system of higher and postgraduate education		+		
101	8.	The OE must demonstrate the reflection on the web resource of information characterizing it in general and in the context of educational programs		+		
102	9.	An important factor is the availability of adequate and objective information about the teaching staff of the EP		+		

103	10.	An important factor is to inform the public about cooperation and interaction with partners within the framework of the EP		+		
Total according to the standard				10		
in total			1	95	7	



Appendix 2. Evaluation table "Conclusion of the external expert commission" (for EP 7M04104 Economics)

№ п\п	№ п\п	Evaluation criteria	The position of the educational organization			
			Strong	Satisfactory	Suggests improvement	Unsatisfactory
The standard "Educational Program Management"						
1	1.	The organization of higher and/or postgraduate education should have a published quality assurance policy that reflects the relationship between scientific research, teaching and learning		+		
2	2.	The organization of higher and (or) postgraduate education should demonstrate the development of a culture of quality assurance, including in the context of		+		
3	3.	Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including in the implementation of joint/double-degree education and academic mobility		+		
4	4.	The management of the EP demonstrates transparency in the development of a development plan for the EP, which contains a timeline for the start of implementation, based on an analysis of its functioning, the real positioning of the OE and the focus of its activities on meeting the needs of the state, employers, students and other stakeholders			+	
5	5.	The management of the EP demonstrates the existence of mechanisms for the formation and regular revision of the EP development plan and monitoring its implementation, evaluating the achievement of training goals, meeting the needs of students, employers and society, and making decisions aimed at continuous improvement of the operational			+	
6	6.	The management of the EP should involve representatives of groups of interested persons, including employers, students and teaching staff in the formation of a development plan for the EP			+	
7	7.	The management of the educational institution must demonstrate the individuality and uniqueness of the educational institution's development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education			+	
8	8.	The organization of higher and (or) postgraduate education must demonstrate a clear definition of those responsible for business processes within the framework of the EP, an unambiguous distribution of staff responsibilities, and the differentiation of functions of collegial bodies		+		
9	9.	The management of the educational institution must provide evidence of the transparency of the educational program management system		+		
10	10.	The management of the EP must demonstrate the existence of an internal quality assurance system for the EP, including its design, management and monitoring, their improvement, and fact-based decision-making		+		
11	11.	The management of the EP should carry out risk management, including within the framework of the EP undergoing primary accreditation, as well as demonstrate a system of measures aimed at reducing the degree of risk.			+	
12	12.	The management of the educational institution should ensure the participation of representatives of employers, teaching staff, students and other interested persons in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program		+		
13	13.	The OE should demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals			+	

14	14.	The management of the educational institution must demonstrate evidence of readiness for openness and accessibility for students, teaching staff, employers and other interested persons	+			
15	15.	The management of the EP should be trained in educational management programs		+		
Total according to the standard			1	8	6	0
The Information Management and Reporting Standard						
16	1.	The OE should demonstrate the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools and that it uses a variety of methods to collect and analyze information in the context of the EP		+		
17	2.	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		+		
18	3.	The management of the EP should demonstrate fact-based decision-making		+		
19	4.	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		+		
20	5.	The OE should establish the frequency, forms and methods of evaluating the management of the EP, the activities of collegial bodies and structural units, senior management, and the implementation of scientific projects		+		
21	6.	The OE must demonstrate the definition of the procedure and ensuring the protection of information, including the identification of responsible persons for the reliability and timeliness of information analysis and data provision		+		
22	7.	An important factor is the availability of mechanisms for involving students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them		+		
23	8.	The management of the EP should demonstrate the existence of a mechanism for communication with students, employees and other stakeholders, as well as conflict resolution mechanisms		+		
24	9.	The OE should demonstrate the existence of mechanisms for measuring the degree of satisfaction with the needs of teaching staff, staff and students within the framework of the OE		+		
25	10.	The OE should provide for an assessment of the effectiveness and efficiency of activities, including in the context of the EP		+		
		<i>The information intended for collection and analysis within the framework of the EP should take into account:</i>				
26	11.	key performance indicators		+		
27	12.	the dynamics of the student body in terms of forms and types		+		
28	13.	the level of academic achievement, student achievements and expulsion		+		
29	14.	student satisfaction with the implementation of the EP and the quality of education at the university		+		
30	15.	the availability of educational resources and support systems for students		+		
31	16.	The OE must confirm the implementation of procedures for processing personal data of students, employees and teaching staff on the basis of their documentary consent		+		
Total according to the standard			0	16	0	0
The standard "Development and approval of an educational program"						
32	1.	The OE should define and document the procedures for the development of the EP and their approval at the institutional level		+		
33	2.	The management of the EP must ensure that the content of the EP meets the established goals, including the expected learning outcomes		+		
34	3.	The management of the EP must demonstrate the existence of mechanisms 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			+	

35	4.	The management of the EP should ensure the availability of developed models of the graduate of the EP, describing the learning outcomes and personal qualities			+	
36	5.	The management of the EP must demonstrate the conduct of external examinations of the content of the OP and the planned results of its implementation			+	
37	6.	The qualification awarded upon completion of the EP must be clearly defined and correspond to a certain level of NSC and QF-EHEA		+		
38	7.	The management of the educational institution should determine the impact of disciplines and professional practices on the formation of learning outcomes		+		
39	8.	An important factor is the possibility of preparing students for professional certification			+	
40	9.	The management of the EP must provide evidence of the participation of students, teaching staff and other interested parties in the development of the EP, ensuring its quality		+		
41	10.	The management of the educational institution should ensure that the content of academic disciplines and planned results correspond to the level of education (bachelor's, master's, doctoral studies)			+	
42	11.	The structure of the EP should provide for various types of activities that ensure that students achieve the planned learning outcomes		+		
43	12.	An important factor is the correspondence of the content of the OP and the learning outcomes of the EP implemented by organizations of higher and (or) postgraduate education in the EHEA		+		
Total according to the standard			0	7	5	0
The standard "Continuous monitoring and periodic evaluation of educational programs"						
44	1.	The OE should identify mechanisms for monitoring and periodic evaluation of the EP to ensure that the goal is achieved and the needs of students and society are met, and show the focus of the mechanisms on continuous improvement of the EP		+		
		<i>Monitoring and periodic evaluation of the EP should include:</i>				
45	2.	the content of the program in the light of the latest scientific achievements in a particular discipline to ensure the relevance of the taught discipline		+		
46	3.	changes in the needs of society and the professional environment		+		
47	4.	the workload, academic performance and graduation of students		+		
48	5.	the effectiveness of student assessment procedures		+		
49	6.	expectations, needs and satisfaction of students with learning in the EP		+		
50	7.	the educational environment and support services, and their compliance with the goals of the EP		+		
51	8.	The management of the EP should demonstrate a systematic approach to monitoring and periodic assessment of the quality of the EP			+	
52	9.	Oh, the management of the EP should define a mechanism for informing all stakeholders about any planned or undertaken actions regarding the EP		+		
53	10.	All changes made to the EP must be published			+	
Total according to the standard			0	8	2	0
The standard "Student-centered learning, teaching and assessment of academic performance"						
54	1.	The management of the educational institution should ensure respect and attention to different groups of students and their needs, and provide them with flexible learning paths		+		
55	2.	The management of the EP should provide for the use of various forms and methods of teaching and learning		+		
56	3.	An important factor is the availability of own research in the field of teaching methods of educational disciplines.		+		

57	4.	The management of the EP should demonstrate the availability of feedback mechanisms for the use of various teaching methods and evaluation of learning outcomes		+		
58	5.	The management of the educational institution should demonstrate the existence of mechanisms to support the autonomy of students with simultaneous guidance and assistance from the teacher		+		
59	6.	The management of the educational institution must demonstrate the existence of a procedure for responding to student complaints		+		
60	7.	The OE should ensure consistency, transparency and objectivity of the learning outcomes assessment mechanism for each EP, including the appeal		+		
61	8.	The OE should ensure that the procedures for evaluating the learning outcomes of students of the EP comply with the planned results and goals of the program, and publish criteria and evaluation methods in advance			+	
62	9.	The OE should define mechanisms to ensure that each graduate of the EP achieves learning outcomes and ensures the completeness of their formation		+		
63	10.	Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area		+		
Total according to the standard			0	9	1	0
The standard «Student»						
64	1.	The OE must demonstrate the existence of a policy for the formation of a contingent of students in the context of the educational institution, ensure transparency and publication of its procedures governing the life cycle of students (from admission to completion)		+		
		<i>The management of the educational institution should determine the order of formation of the contingent of students based on:</i>				
65	2.	minimum requirements for applicants		+		
66	3.	maximum group size during seminars, practical, laboratory and studio classes		+		
67	4.	forecasting the number of government grants		+		
68	5.	analysis of available material, technical, information resources, human resources		+		
69	6.	analysis of potential social conditions for students, including the provision of places in the dormitory		+		
70	7.	The management of the educational institution should demonstrate its readiness to conduct special adaptation and support programs for newly enrolled and foreign students		+		
71	8.	The OE must demonstrate compliance of its actions with the Lisbon Recognition Convention, 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		+		
72	9.	The OE 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		+		
73	10.	The OE should provide an opportunity for external and internal mobility of students of the educational institution, as well as readiness to assist them in obtaining external grants for training			+	
74	11.	The management of the educational institution should demonstrate its readiness to provide students with internship places, promote the employment of graduates, and maintain communication with them		+		
75	12.	The OE should provide for the possibility of providing graduates of the educational institution with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion		+		
Total according to the standard			0	11	1	0
The standard "Teaching staff"						

76	1.	The OE should have an objective and transparent personnel policy, including in the context of the EP, including hiring, professional growth and development of personnel, ensuring the professional competence of the entire staff		+		
77	2.	The OE must demonstrate the compliance of the staff potential of the teaching staff with the specifics of the EP		+		
78	3.	The management of the EP must demonstrate an awareness of responsibility for its employees and ensure favorable working conditions for them		+		
79	4.	The management of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning		+		
80	5.	The OE should determine the contribution of the teaching staff of the EP to the implementation of the development strategy of the OE, and other strategic documents		+		
81	6.	The OE should provide opportunities for career growth and professional development of teaching staff		+		
82	7.	The management of the educational institution should demonstrate its readiness to involve practitioners of relevant sectors of the economy in teaching		+		
83	8.	The OE should demonstrate the motivation for the professional and personal development of the teachers of the educational institution, including encouragement for the integration of scientific activity and education, the use of innovative teaching methods		+		
84	9.	An important factor is the willingness to develop academic mobility within the framework of the EP, to attract the best foreign and domestic teachers			+	
Total according to the standard			0	8	1	0
The standard "Educational resources and student support systems"						
85	1.	The OE must ensure a sufficient number of educational resources and student support services to ensure that the goal of the EP is achieved		+		
86	2.	The OE 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 educational institutions (adults, working, foreign students, as well as students with disabilities)		+		
87	3.	The management of the educational institution should demonstrate the availability of support procedures for various groups of students, including information and counseling		+		
		<i>The management of the EP must demonstrate compliance of information resources with the specifics of the EP, including:</i>				
88	4.	technological support for students and teaching staff (for example, online training, modeling, databases, data analysis programs)		+		
89	5.	library resources, including a fund of educational, methodological and scientific literature on general education, basic and profile disciplines on paper and electronic media, periodicals, access to scientific databases		+		
90	6.	examination of research results, graduation papers, dissertations for plagiarism		+		
91	7.	access to educational Internet resources		+		
92	8.	the functioning of WI-FI in the territory of the educational organization		+		
93	9.	The OE demonstrates planning for the provision of educational equipment and software similar to those used in the relevant sectors of the economy		+		
Total according to the standard			0	9	0	0
The standard "Informing the public"						
		The OE must publish reliable, objective, up-to-date information about the educational program and its specifics, which should include:				
94	1.	expected learning outcomes of the educational program being implemented		+		
95	2.	qualifications and (or) qualifications that will be awarded upon completion of the educational program		+		
96	3.	teaching approaches, training, as well as the system (procedures, methods and forms) of assessment		+		

97	4.	information on passing scores and educational opportunities provided to students		+		
98	5.	information about graduate employment opportunities		+		
99	6.	The management of the OE should provide for a variety of ways to disseminate information, including the media, information networks to inform the general public and interested persons		+		
100	7.	Public awareness should include support and clarification of the national development programs of the country and the system of higher and postgraduate education		+		
101	8.	The OE must demonstrate the reflection on the web resource of information characterizing it in general and in the context of educational programs		+		
102	9.	An important factor is the availability of adequate and objective information about the teaching staff of the EP		+		
103	10.	An important factor is to inform the public about cooperation and interaction with partners within the framework of the EP		+		
Total according to the standard			0	10	0	0
TOTAL			1	86	16	0

