***INDEPENDENT AGENCY FOR ACCREDITATION AND RATING***

***External expert commission***

***Addressed to***

***Accreditation***

***Council of the IAAR***

****

**REPORT**

**on the results of the work of the external expert commission for the evaluation**

**for compliance with the standards of the international program basic educational program of higher professional education**

**670200 OPERATION OF TRANSPORT AND TECHNOLOGICAL MACHINES AND COMPLEXES (MASTER)**

**INSTITUTION "KYRGYZ STATE TECHNICAL**

**UNIVERSITY NAMED AFTER I. RAZKOV**

***Date of EEC visit: from " 10" to " 12" May 20 23 \_***

**Bishkek May 12, 2023**

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1. **LIST OF SYMBOLS AND ABBREVIATIONS**

|  |  |
| --- | --- |
| AIS | - Automated information system |
| QC | - Quality Council |
| EMC | - Educational and methodological council |
| AC | - Academic Council |
| HEI | - Higher education institution |
| MES KR | - Ministry of Education and Science of the Kyrgyz Republic |
| EMA MES KR | - Educational and Methodological Association under the Ministry of Education and Science of the Kyrgyz Republic |
| SAC | - State Attestation Commission |
| SES HPE | - State educational standard of higher professional education |
| FSC | - Final state certification |
| KSTU | - Kyrgyz State Technical University named after. I. Razzakova |
| IS | - Information system |
| MD | - Master dissertation |
| IAAR | - Non-profit institution "Independent Agency for Accreditation and Rating" |
| SRW | - Scientific research work |
| SRWS | - Scientific research work of students |
| SMC | - Scientific and methodological council |
| DDIM | - Department of Digital Infrastructure Maintenance |
| BEP | - Basic educational program |
| PTS | - Professorial teaching staff |
| WPD | - Work program for the discipline |
| WC | - Working curriculum |
| REL | - Republican electronic library |
| FQW | - Final qualifying work |
| IWS | - Independent work of the student |
| EC | - Elective courses |
| QMS | - Quality Management System |
| UMCD | - Educational-methodical complex by discipline |
| GSM | - Graduate School of Masters |
| EQD | - Education Quality Department |
| FEF | - Fund of evaluation funds |
| GRT | - General republican testing |
| SSC | - Student Service Center |

1. **INTRODUCTION**

In accordance with the order of the Director General of the Independent Agency for Accreditation and Rating No. 40-23-OD dated March 16, 2023, from May 10 to May 19, 2023, an external expert commission assessed the compliance of the basic educational program 670200 Operation of transport and technological machines and complexes (master's program) of the Institution "Kyrgyz State Technical University named after I. Razzakov" for compliance with the standards of the program accreditation of the main educational program of higher professional education (Kyrgyz Republic, approved and put into effect by the order of the Director General of the National Institution "Independent Accreditation and Rating Agency" dated January 05 , 2022 No. 1-22 - OD ) .

The report of the external expert commission (hereinafter referred to as the EEC) contains the result of the assessment of the university's activities in the framework of quality assurance of the BEP 670200 Operation of transport and technological machines and complexes (Master's program) according to the criteria of accreditation standards, the recommendations of the EEC for further improvement of the educational program, the conclusion of the EEC (Appendix 1. Parameters of the program profile), the program of the visit of the EEC (Appendix 2), the results of the survey of teachers and students (Appendices 3-4).

**Composition of the EEC IAAR:**

*Chairman of the EEC* **-** Viktor Kamkin, Ph.D., associate professor of Toraigyrov University, expert of the 1st category IAAR (Pavlodar, Republic of Kazakhstan).

*EEC coordinator* **-** Niyazova Guliyash Balkenovna, project manager for institutional and specialized accreditation of IAAR universities (Astana, Republic of Kazakhstan).

*IAAR expert of the I category* – Pogrebitskaya Marina Vladimirovna, candidate of pedagogical sciences, associate professor of the North Kazakhstan University named after M. Kozybaev, member of the IAAR Expert Commission on Higher Education (Petropavlovsk, Republic of Kazakhstan). Evaluation of EP 510200 Applied Mathematics and Informatics (Master's).

*IAAR expert of the I category* – Arapbaev Ruslanbek Nurmamatovich, Candidate of Physical and Mathematical Sciences, Associate Professor, Vice-Rector for Research, Osh State University (Osh, Kyrgyz Republic). Evaluation of EP 510200 Applied Mathematics and Informatics (Master's).

*IAAR expert of the I category*, student - Egizbayeva Asylzat Erkinkyzy, a 2nd year student of the educational program Information Systems of Kyzylorda University named after Korkyt Ata (Kyzylorda, Republic of the Republic). Quality assessment of EP 510200 Applied Mathematics and Informatics (Master's).

*IAAR expert of the II category* – Inna Sidorova, MBA, Master of Science in Economics, Business Manager, BGC Partners, (London, United Kingdom). Quality assessment of EP 580100 Economics (master's).

*IAAR expert of the III category, student* - Karybek Aigerim, 2nd year student of the educational program 580100 Economics (master's degree) of the Kyrgyz Economic University named after. M. Ryskulbekova (Bishkek, Kyrgyz Republic). Quality assessment of EP 580100 Economics (master's).

*IAAR expert of the II category* – Vorontsov Alexander Sergeevich, Candidate of Technical Sciences, Associate Professor, Dean of the Faculty of Innovative Engineering Technologies of the Grodno State University named after Yanka Kupala (Grodno, Republic of Belarus). EP 670200 Operation of transport and technological machines and complexes (master's degree).

*IAAR expert of the I category* - Shunkeev Kuanyshbek Shunkeevich, Doctor of Physical and Mathematical Sciences, Professor of Aktobe Regional University. K. Zhubanova, member of the Expert Council for Higher Education (Aktobe, Republic of Kazakhstan). EP 670200 Operation of transport and technological machines and complexes (master's degree).

*IAAR expert of the II category, student* - Koshetaev Dias Sansyzbayuly, student of the 1st year of the educational program 7M11301 Logistics (by industry) of the Kazakh National University. al-Farabi (Almaty, Republic of Kazakhstan). EP 670200 Operation of transport and technological machines and complexes (master's degree).

*IAAR expert of the I category* - Rakhimov Murat Amanzholovich, Ph.D., Associate Professor of the Department of Building Materials and Technologies of Karaganda Technical University (Karaganda, Republic of Kazakhstan). Quality assessment of EP 50500 Construction (Master's degree).

*IAAR expert of the I category* – Tayirov Mitalip Muratovich, Doctor of Physical and Mathematical Sciences, Professor of Batken State University, member of the Expert Council for Higher Education (Kyzyl-Kyiya, Kyrgyz Republic). Quality assessment of EP 50500 Construction (Master's degree).

*IAAR expert of the I category* - Murzalina Gulshat Bukharbaevna, Candidate of Technical Sciences, Associate Professor of the International Transport and Humanitarian University (Almaty, Republic of Kazakhstan). Quality assessment of EP 750100 Architecture (Master's degree).

*IAAR expert of the I category, employer* – Pilipenko Yury Alexandrovich, President of the Association of Producers of Goods and Services “Expobest” (Almaty, Republic of Kazakhstan). Quality assessment of EP 750100 Architecture (Master's degree).

*IAAR expert of the III category, student* - Papyshev Batyr Nurzhanovich, student of the educational program 6B07305 Construction of the East Kazakhstan Technical University. D. Serikbaeva (Ust-Kamenogorsk, Republic of Kazakhstan). Quality assessment of EP 50500 Construction (master's degree), 750100 Architecture (master's degree).

1. **REPRESENTATION OF EDUCATIONAL ORGANIZATION**

Information about the establishment of an educational institution:

In October 1954, the Frunze Polytechnic Institute (FPI) was established on the basis of the technical faculty of the Kyrgyz State University;

In 1992, the Kyrgyz Technical University was established on the basis of the FPI;

By the Decree of the Government of the Kyrgyz Republic No. 522 of December 5, 1995, the Kyrgyz Technical University was named after I. Razzakov;

Decree of the President of the Kyrgyz Republic on October 5, 2004 to the Kyrgyz Technical University. I. Razzakov was given the status of "national";

On May 3, 2005, by the Decree of the President of the Kyrgyz Republic, the university was renamed into the Kyrgyz State Technical University named after I. Razzakov (KSTU);

Decree of the President of the Kyrgyz Republic "On measures to increase the potential and competitiveness of educational institutions of higher professional education of the Kyrgyz Republic" dated June 18, 2022 No. 243 Kyrgyz State Technical University named after I. Razzakova was reorganized by establishing the status of the assignee and joining it with the Kyrgyz State University of Construction, Transport and Architecture named after N. Isanov, Kyrgyz State University of Geology, Mining and Development of Natural Resources named after Y. Asanaliev.

Data on awards received by KSTU:

For the successes achieved in the training of highly qualified personnel, the FPI team, among the 26 best universities in the country, was awarded the Jubilee Badge of Honor of the Central Committee of the CPSU, the Presidium of the Supreme Soviet of the USSR, the Council of Ministers of the USSR and the All-Union Central Council of Trade Unions in honor of the 50th anniversary of the formation of the USSR;

In 1988, «Polytech» was awarded the Challenge Red Banner of the Central Committee of the CPSU, the Presidium of the Supreme Soviet of the USSR, the Council of Ministers of the USSR, the Central Committee of the All-Union Leninist Young Communist League and the All-Union Central Council of Trade Unions for the first place in the All-Union Socialist Competition among 756 technical universities of the country.

Membership data of KSTU in various organizations:

Russian-Kyrgyz Consortium of Technical Universities (RKCTU);

Association of Technical Universities of the Baltic and CIS countries;

Association of Universities of Central Asia, SCO Universities;

International Association for Automobile and Road Education (IAARE);

Association of Asian Universities;

Network University of the CIS;

Eurasian Network University;

Association of Technical Universities;

Eurasian-Pacific Network of Universities;

University Alliance of the New Silk Road;

Interuniversity scientific and educational network "Synergy";

Association of Construction Higher Educational Institutions;

member of ENACTUS, DAAD, Association of Legal Clinics, "BizExpert"; Erasmus, International Society for Engineering Pedagogy (IGIP), etc.

The organizational structure of management includes 10 institutes, 4 territorially isolated branches, 3 higher schools, 6 research institutes, 5 colleges and a lyceum.

KSTU contingent is 24202 people, of which 1189 people are foreign students: Postgraduate studies (doctoral studies) - 237; PhD - 53; magistracy - 1159 people; specialty - 2299; undergraduate - 14723; APE - 5567 people; lyceum - 164. The number of PTS (according to HPE programs) - 1329 people. (part-time workers - 257), including academicians - 3 people; doctors of Sciences - 92 people; candidates of sciences - 373 people.

Currently at KSTU the following international projects are being implemented:

FORMOBILE project: an unbroken chain of forensic investigations for mobile devices. Main project coordinator: Mittweid University of Applied Sciences/Germany. The project is being implemented by a joint consortium of 19 partners from the EU countries and Kyrgyzstan.

Project under the Erasmus + program (Action KA2, capacity building) on the theme "Modernization of higher education in Central Asia through new technologies" (HiedTec). The consortium included universities from such countries as Bulgaria, Italy, the Netherlands, Portugal, Luxembourg, Kazakhstan, Kyrgyzstan, Uzbekistan, Tajikistan and Turkmenistan.

Development of a master's program based on the Bologna system in resource-efficient production logistics / ProdLog. The project coordinator is Otto von Guericke University, Institute for Logistics and Materials Science, Magdeburg, Germany.

Development of PhD and research potential of scientists in Kyrgyzstan (DERECKA). The project consortium included 4 EU Universities with extensive experience in research methodology and PhD research, as well as 7 universities from Kyrgyzstan.

Project under the Erasmus + program on the topic "Creation of training and research centers and development of courses on intelligent analysis of big data in Central Asia (ELBA)". The project coordinator is the University of Santiago de Compostela (Spain);

“Development of interdisciplinary postgraduate programs and strengthening of research networks in the field of geoinformation technologies in Armenia and Kyrgyzstan” (GeoTAK).

Project DEvision - Digital connection of real and virtual environment. The project is funded by OeAD - Austria's Agency for Education and Internationalization. Project participants: University of Salzburg, Austria (coordinator), National University of Architecture and Construction of Armenia, Yerevan State University, Armenia, KSTU.

1. **DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE**

According to the Master's degree BEP submitted for accreditation in the direction 670200 Operation of transport and technological machines and complexes, the following independent accreditations were previously carried out in IAAR:

- in 2018, program accreditation of BEP 670200 Operation of transport and technological machines and complexes by the Independent Agency for the Accreditation of Educational Programs and Organizations (IAAEPO). The comments and shortcomings noted in the procedures for this accreditation were taken into account and largely eliminated in accordance with the Plan for the implementation of the comments of the EEC. For each structural subdivision, the implementation plan for the implementation of the comments of the EEC was carried out.

1. **DESCRIPTION OF THE EEC VISIT**

The work of the EEC was carried out on the basis of the approved Program of the visit of the IAAR external expert commission for specialized accreditation of educational programs in the Institution "Kyrgyz State Technical University named after I. Razzakov" (program and primary program accreditation) from May 10 to May 12 , 2023.

In order to coordinate the work of the EEC on May 8, 2023, an on-line introductory meeting was held, during which powers were distributed among the members of the commission, the schedule of the visit was clarified, and agreement was reached on the choice of examination methods.

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, directors of institutes, heads of structural divisions, heads of departments, teachers, students, graduates, employers. A total of 272 representatives took part in the meetings (Table 1).

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

|  |  |
| --- | --- |
| **Participant category** | **Quantity** |
| Rector | 1 |
| Vice-rectors | 7 |
| Institute directors | 8 |
| Heads of structural divisions | 13 |
| Heads of departments | 1 |
| Teachers | 5 |
| Students, undergraduates, doctoral students | 9 |
| Graduates | 4 |
| Employers | 4 |
| **Total** | **62** |

During the visual inspection, the members of the EEC were given the opportunity to get acquainted on - line with the state of the material and technical base of the university, visited computer classes, lecture halls.

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

Members of the EEC got acquainted with the material and technical base of the practices of accredited programs assigned to the Department of Automotive Transport: Motor transport of the Ministry of Internal Affairs of the Kyrgyz Republic, LLC «Chuyuraltransservice», LLC «Servisstan», Motor depot of the Department of Health of Bishkek, ME «Bishkek Passenger Motor Transport Enterprise», LLC «Imarat Stroy», GU ATP UdPiP KR, LLC «Borusan Makina Kyrgyzstan», BADC named after K.Kolbayev, LLC «Avtouchkombinat», LLC «HEPPjob», LLC «SLEK».

According to the accredited educational program for the preparation of masters in the direction 670200 Operation of transport and technological machines and complexes, it was noted that for the period from 2018 to 2023, two program (2018 and 2020) and one institutional accreditation (2020) were carried out by the independent accreditation agency "Bilim - Standard".

EEC members attended a training session:

- in the discipline "Technical operation of TTTME (automobiles)", BEP 670200 "OTTMC", lecturer Dresviannikov S.Yu., 1 campus, room 3/207. Group ETMm- 1-22; 6 people, time: May 11, 2023 04:00 PM Bishkek. Connecting to a Zoom conference https://us02web.zoom.us/j/6175902763?pwd=WHBjZmRUSUx3SlZadGI3UmQvc0htQT09

Conference ID: 617 590 2763

Access code: 6666

The teacher is fluent in the subject, actualizes previously studied information. The lesson is held in an interactive format, a dialogue is being held with undergraduates, a mixed format of lectures has been established (most of the undergraduates were in the audience, one undergraduate was in on - line mode).

In accordance with the accreditation procedure, a survey of teachers and students was conducted.

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

As part of the planned program, recommendations for improving the accredited educational programs of the KSTU, developed by the EEC based on the results of the examination, were presented at a meeting with the management May, 12, 2023. \_

1. **COMPLIANCE WITH THE STANDARDS OF THE INTERNATIONAL CORE EDUCATIONAL PROGRAM**

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

* *The organization of higher and (or) postgraduate education must have a published quality assurance policy. The quality assurance policy should reflect the relationship between research, teaching and learning.*
* *The organization of higher and (or) postgraduate education must demonstrate the development of a culture of quality assurance, including in the context of EP.*
* *Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint/double-degree education and academic mobility.*
* *The management of the EP demonstrates its readiness to ensure transparency in the development of the EP development plan based on an analysis of its functioning, the actual positioning of the EO and the focus of its activities on meeting the needs of the state, employers, students and other stakeholders. The plan should contain the dates for the start of the implementation of the educational program.*
* *The EP management demonstrates the existence of mechanisms for the formation and regular review of the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.*
* *The EP management should involve representatives of stakeholder groups, including employers, students and teaching staff, in the formation of the EP development plan.*
* *The management of the EP must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education.*
* *The organization of higher and (or) postgraduate education must demonstrate a clear definition of those responsible for business processes within the EP, an unambiguous distribution of staff duties, and delimitation of the functions of collegial bodies.*
* *The management of the EP must provide evidence of the transparency of the educational program management system.*
* *The management of the EP must demonstrate the existence of an internal quality assurance system for the EP, including its design, management and monitoring, their improvement, decision-making based on facts.*
* *The management of the EP must carry out risk management, including within the framework of the EP undergoing primary accreditation, and also demonstrate a system of measures aimed at reducing the degree of risk.*
* *The management of the EP should ensure the participation of representatives of employers, teaching staff, students and other interested parties in the collegiate management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.*
* *The EO must demonstrate innovation management within the EP, including the analysis and implementation of innovative proposals.*
* *The management of the EP must demonstrate evidence of readiness for openness and accessibility for students, teaching staff, employers and other interested parties.*
* *The management of the EP should be trained in education management programs.*

***Evidence***

The educational program of program accreditation of the basic educational program (BEP) of higher professional education 670200 Operation of transport and technological machines and complexes (master's degree) submitted for accreditation has been developed and has a published policy of the elements of the quality assurance system and fully responds to all operational processes of quality assurance of education of KSTU, set out in the mission of KSTU and the Program of the development strategy of KSTU for 2021-2030.

To achieve the goals of the department "Automobile transport" developed its own Program of the development strategy of the department. AT 2023-30 The goals of the EP are available on the organization's website.

The institution has a Quality Policy, and quality assurance issues are reflected in the Mission of the University. The quality policy is posted on the website and is available to all interested parties. The quality policy of KSTU is an integral element of the strategic management of the university, the basis for planning its educational activities, it determines the high quality of education as one of the main priorities in the activities of the university.

The collegial representative body acting to implement the designated Policy in the field of quality and development of Education quality assurance system (EQAS) is the Quality Council (QC) (approved by order of KSTU No. 174 dated November 24, 2022).

[The development plans](https://drive.google.com/drive/folders/1fjQvfxnxIM7UycNYgqcT-fo4ly3UJIus) of accredited EPs correspond to [the strategic development program of the university](https://www.ektu.kz/files/abouttheuniversity/Programma-strategicheskogo-razvitiya_NAO_VKTU_2023-2025.pdf)for 2023 - 2025 In accordance with the EP Development Strategy for 2023 - 2025, the content of the EP goals is reviewed regularly at least once a year, taking into account the development of science, technology, culture, economics, technology, social sphere and is carried out according to the results of external and internal monitoring, results and conditions for the implementation of educational programs, including in the process of auditing quality management.

External stakeholders are involved in the implementation of the program quality assurance policy. External experts are heads of enterprises with extensive experience in their specialty and have made a significant contribution to the development of their respective industries (Self-Assessment Report).

Responsibility and authority for business processes within the EP are regulated by the regulation of KSTU "Designing an educational program".

Transparency of the EP management system is achieved by publishing data about the EP on the EO website, as well as involving stakeholders in the development and approval of the EP development strategy.

In accordance with the regulatory documents of the EP, the employees of KSTU conduct annual monitoring and analysis of the effectiveness of the EP and the development of corrective actions for its further implementation in order to increase its effectiveness.

Internal quality assurance is carried out through participation in various surveys of students, teaching staff, employers. The results of the analysis of inspections and audits are presented in the form of acts, certificates, memos, reports and are considered at meetings of the collegiate bodies of KSTU (Board of Directors, Academic Council, Board of Trustees, etc.).

The effectiveness of the quality policy is achieved through an annual analysis of the situation in higher education, a study of external and internal risks using a SWOT analysis.

Participation in the management of the EP of employers, PTS, students and other interested parties is organized through their inclusion in the collegial bodies of the PA, as well as involvement in the examination of changes made to the EP.

Innovation management within the EP is carried out by planning and implementing the activities of the EP Development Strategy.

The management of the EP is open to interaction with interested parties: the university website has a wide range of access to information where you can contact with questions of interest. Also on the site you can find information about the faculties / institutes, phone numbers of the dean's office and directly contact them.

The PTS of the EP is actively trained in numerous educational programs - from the annexes to the Self-Evaluation Report it follows that over the past 3 years, only the head of the EP has received more than 5 different certificates, some of them are aimed at improving teaching skills and obtaining special skills in the disciplines of the OP.

***Analytical part***

Risk management in the development strategies of institutions, as well as the development strategies of the EP, is presented at the level of SWOT analysis. At the same time, there is no ranking of risks, there are no actions to manage risks and analyze their effectiveness.

Management of innovation by management is understood as part of research activities and is postulated in accordance with the EO Quality Policy. At the same time, the Self-Assessment Report shows that the analysis and implementation of innovative proposals do not have a clear and well-defined mechanism within the QMS. This is confirmed by the answers of the teaching staff during the interview.

The educational program for the preparation of masters in the direction of 670200 "OTTMC" has a published policy of the elements of the quality assurance system and fully responds to all operational processes for quality assurance of KSTU education, set out in the mission of KSTU and the KSTU Development Strategy Program for 2021-2030. This was reflected in the documents submitted for accreditation.

To achieve the goals of the department «Automobile transport» («AT») developed its own Program of the development strategy of the department. AT 2023-30 The goals of the EP are available on the organization's website.

The institution has a Quality Policy, and quality assurance issues are reflected in the Mission of the University. The quality policy is posted on the website and is available to all interested parties. The quality policy of KSTU is an integral element of the strategic management of the university, the basis for planning its educational activities, it determines the high quality of education as one of the main priorities in the activities of the university.

The collegial representative body acting to implement the designated Policy in the field of quality and development of EQAS is the QC (approved by order of KSTU No. 174 dated November 24, 2022).

At the level of the «AT» department, which implements the EP for the preparation of masters in the direction 670200 “ОTTMС”, on the basis of the annual annual report, an assessment is made of the preparedness for the implementation of the policy of the internal quality assurance system for providing the EP for the next academic year. The state of the material and technical support of the department meets the requirements of training, it is efficient, but it needs to be updated.

A single example of experience is noted implementation of joint / double-diploma education and academic mobility with one of the Russian universities in an accredited program.

The strategy and development plan for BEP 670200 OTTMC are presented. Currently, 12 people are being trained at BEP 670200 OTTMC (master's degree) .

Noteworthy is the fact of a long absence of updates on information resources, in particular on the YouTube channel of the university press service, despite the presence of the Media Plan for the 2022-2023 academic year announced at KSTU (the latest updates date back to 2018).

A mechanism for monitoring the effectiveness and adjusting the EP, which is implemented on the basis of a quality assurance system, is described. Within the framework of these requirements for the considered BEP for the preparation of masters in the direction 670200 "OTTMC", effective mechanisms are presented and the composition of the council members is formed.

In order to form the target model of KSTU, a reference group of universities was formed: MSTU named after N.E. Bauman (Russia), KNU named after Al-Farabi (Kazakhstan), Magdeburg Universit named after Otto von Guericke (Germany), these universities were taken as benchmarks for more accurate planning of long-term performance indicators of KSTU and its structural divisions during the planning period of the development strategy. It is not visible from the given documents of the individualization of the development plan of the BEP 670200 «OTTMC» (master's degree)

The university has a developed system of internal monitoring of the quality of the educational process, including audits, inspections, surveys, mutual visits of teachers.

The university has a list of planning documents that demonstrate the development progress made since the last external quality assessment procedure.

***Strengths/Best Practices in BEP 670200 Operation of Transportation Technological Machines and Complexes (Master's):***

* The development of a quality assurance culture at the organizational level is presented. It is reflected in the planning of the work of the entire complex of mechanisms of the functional matrix of processes in the Work Plan of KSTU for the 2022-23 academic year. It is gratifying to note that the response to the results of previous external examinations was presented in the form of action plans to eliminate the comments of the EC on the accreditation of BEP 670200 OTTMC (masters).
* The EO demonstrated a clear definition of those responsible for business processes in the quality assurance of the BEP, the delimitation of the functions of collegiate bodies. Such a practice in the implementation of business processes should be recognized as a positive experience.

***Recommendations for BEP 670200 Operation of transport and technological machines and complexes (master's degree):***

* The leadership of the EP to build effective mechanisms for ensuring the quality of training of undergraduates with academic mobility and the implementation of joint / double-diploma education. Deadline: until January 01, 2024;

***Conclusions of the EEC according to the criteria:***

***According to the standard "Management of the educational program" for the BEP 670200 Operation of transport and technological machines and complexes (master's degree) , 11 criteria are disclosed, of which 1 is strong, 10 are satisfactory positions.***

*6.2. Information Management and Reporting Standard*

* *The EO must demonstrate the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software 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 must demonstrate fact-based decision making.*
* *Within the framework of the EP, a system of regular reporting should be provided, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research.*
* *The* *EO must establish the frequency, forms and methods for assessing the management of the EP, the activities of collegial bodies and structural divisions, top management, and the implementation of scientific projects.*
* *The EO must demonstrate the determination of the procedure for and ensuring the protection of information, including the identification of persons responsible for the reliability and timeliness of the analysis of information and the provision of data.*
* *An important factor is the availability of mechanisms for involving students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.*
* *The management of the EP must demonstrate the existence of a mechanism for communication with students, employees and other interested parties, as well as mechanisms for resolving conflicts.*
* *The EO must 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 EO should provide for an assessment of the effectiveness and efficiency of activities, including in the context of the EP.*
* *The information expected to be collected and analyzed within the framework of the EP should take into account:*
	+ *key performance indicators;*
	+ *the dynamics of the contingent of students in the context of forms and types;*
	+ *academic performance, student achievement and dropouts;*
	+ *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 EO must confirm the implementation of the procedures for processing personal data of students, employees and teaching staff on the basis of their documented consent.*

***Evidence***

The EO demonstrates the presence of a system for collecting and analyzing statistics on the contingent of students and graduates, available resources, staffing, consulting, research and international activities and other areas for intensive use in the management of the EP.

The information management system is based on the use of the university website and the educational portal, as well as all decisions, resolutions of the BT, RС, QC, EMS, AC, SС and other information is sent in the form of files through the electronic document management system EDOC AVN (https://avn.kstu.kg/EDOC/Account/Login) to structural divisions and branches of KSTU with a characteristic for official use (OU). Access to a number of systems requires authorization. This is a well-established practice of many universities, so it can be considered a satisfactory position.

In the public domain on the website of the university in the section "Audit of quality assurance processes" there is a fairly complete list of regulatory documents designed to ensure the systematic use of processed, adequate information. During the visit, the EEC managed to find a number of analytical reports on the effectiveness of the applied solutions and quantitative markers.

It was not possible to find the full implementation of the mechanism for ensuring the protection of information, including the identification of persons responsible for the reliability and timeliness of the provision of information.

Special boxes of "complaints and suggestions" installed in certain places to take into account the opinions of students in order to collect information when working with complaints and suggestions of teaching staff and students cannot be an example of transparency in information processing to improve the internal quality assurance system. Interviews of the target groups did not allow assessing the effectiveness of the implementation of the rights to self-expression.

Evaluation of the management and achievement of the goals of the BEP is carried out by the departments based on the results of a survey of employers preparing masters 670200 OTTMC employers on the quality of the professional activities of graduates. At the level of the department, the assessment of the work plans of the PTS is carried out at meetings that are held monthly, the analysis of the implementation and the decisions taken are recorded in the journal of the minutes of the meetings of the department.

Students, employees and PTS, starting to work with a unified information support system of the university, agree to the processing of their personal data. Information about obtaining such consent is stored in the KSTU database, and is also confirmed by agreements between the university and employees, in which there is a corresponding clause.

***Analytical part***

EEC notes the confident position of EO and accredited EPs on information management and reporting. There are well documented procedures within this standard. The implementation of these procedures within the framework of BEP 670200 OTTMC was confirmed by the EEC based on the results of studying the EO website, internal information resources, the results of a survey, as well as minutes of meetings of various collegiate bodies.

It is not possible to assess the mechanisms for ensuring information security, including determining the persons responsible for the reliability and timeliness of providing information, due to password access to most of the services that are linked (for example, access to the educational portal https://avn.kstu.kg only through login/password, etc.). It suggests the implementation of the appointment of responsible persons for the reliability and timeliness of the provision of information on the resources of the department «AT».

Performance and performance indicators under EP 670200 OTTMC are not transparent enough. However, teaching staff and students of KSTU have access to a global cluster of scientific information. Access to open educational resources is carried out through access to the Internet, in connection with which students and teaching staff of KSTU have no restrictions.

***Strengths/Best Practices in BEP 670200 Operation of Transportation Technological Machines and Complexes (Master's):***

* By this standard, OPs have no strengths.

***Recommendation for PEP 670200 Operation of transport and technological machines and complexes (master's):***

* To the head of the EP, to demonstrate the implementation of the mechanism for ensuring the protection of information through the procedure for appointing persons responsible for the reliability and timeliness of providing information on the resources of the Department «AT». Deadline until 01.09.2023.

***Conclusions of the EEC according to the criteria:***

***According to the standard "Information Management and Reporting" for EP 670200 Operation of transport and technological machines and complexes (master's degree), 16 criteria are disclosed, of which 15 have a satisfactory position, 1 criterion suggests improvement.***

*6.3. Standard "Development and approval of the educational program"*

* *The must define and document the procedures for developing the EP and their approval at the institutional level.*
* *The management of the EP should ensure that the developed EP complies with the established goals, including the intended 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 the availability of developed models of the EP graduate that describe the learning outcomes and personal qualities*
* *The management of the EP must demonstrate the conduct of external reviews 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 the NSC and QF-EHEA*
* *The EP management should determine the influence of disciplines and professional practices on the formation of learning outcomes*
* *An important factor is the possibility of preparing students for professional certification*
* *The management of the EP must provide evidence of the participation of students, teaching staff and other stakeholders in the development of the EP, ensuring their quality*
* *The management of the EP should ensure that the content of the academic disciplines and the planned results correspond to the level of education (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 between the content of the EP and the learning outcomes of the EP implemented by organizations of higher and (or) postgraduate education in the EHEA*

***Evidence***

The implementation of the educational program is aimed at developing professional competence among graduates, corresponding to the qualification framework of education levels and professional standards, as well as meeting the needs of the market. The EP provides for the possibility of building an individual educational trajectory, taking into account the personal needs and capabilities of students, and includes a sufficient number of disciplines and activities aimed at obtaining practical experience for students in applying theoretical knowledge. BEP 670200 OTTMC (master's degree)is in demand among applicants, which was confirmed by the interview participants.

OOP 670200 OTTMC (master's degree) , approved in 2022, was reviewed and approved by an external expert - a representative of employers - chief engineer of MP "BPATP" Asanov N.K.

When demonstrating the uniqueness of the BEP for the preparation of masters of the direction 670200 "OTTMC", its positioning in the educational market (regional / national / international), the exclusivity of the BEP is shown, and not its uniqueness. The visit of the EEC did not reveal examples of the unique trajectory of students, unique talented and gifted undergraduates who have achieved extraordinary success, etc. no such examples were found in the Alumni Interviews.

Information on the design of individual educational trajectories in the direction of training masters 670200 "OTTMC" implemented at the department "AT" and 04.03.2023 Operation of transport and technological machines and complexes,implemented by FSBEI HE "Novosibirsk State Agrarian University" of the Russian Federation, the SOP was developed, the RUE was developed for the 2023-2024 academic year. At the moment and before the specified period of accreditation BEP 670200 Operation of transport and technological machines and complexes (master's degree)had no experience in implementing SOPs.

***Analytical part***

The EEC notes that the development and approval of BEP 670200 OTTMC (magistracy**)**are organized on the basis of institutional mechanisms, adherence to which is confirmed by a number of documents presented in the annexes to the EP Self-Evaluation Report.

Of particular note is that professional certification is present in BEP 670200 OTTMC (master's degree),because According to the evidence demonstrated during the visit of the EEC, one of the main tasks of the practice in the 1st year and the 1st production practice in the 2nd year is the acquisition by students of a working profession with the assignment of four types of qualifications (“Automotive mechanic (chassis, engine, transmission)”, “Automotive mechanic-diagnostic”, “Automotive electrician, electronics engineer” and “Car painter for painting cars” ) . The possibility of acquiring additional competencies is one of the main values of any EP.

It is noteworthy that if there are at least two SOPs that are open within the framework of the BEP 670200 OTTMC (master's degree)over the past 3 years, the fact of enrollment of applicants for training or referral for training has not been identified and not reflected in any of the submitted documents. There is only experience of more than five years ago in working with MADI with a student under the bachelor's program.

***Strengths/Best Practices in BEP 670200 Operation of Transportation Technological Machines and Complexes (Master's):***

***-*** According to this EP standard, there are 2 criteria that have strong positions: the elaboration of the content of the EP, taking into account the amount of theoretical training, research, professional practice, as well as the preparation of students for professional certification.

***Recommendations for BEP 670200 Operation of transport and technological machines and complexes (master's degree):***

* Head of BEP 670200 Operation of transport-technological machines and complexes (master's degree) is recommended to provide for the possibility of recruiting undergraduates for double-diploma and (or) joint EPs with foreign universities. Deadline: until September 30, 2024.

***Conclusions of the EEC according to the criteria:***

***According to the standard "Development and approval of the educational program" for the BEP 670200 Operation of transport and technological machines and complexes (master's degree), 13 criteria are disclosed, of which 2 have a strong position of an educational organization and 11 have a satisfactory position.***

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

* *The EO must determine the mechanisms for monitoring and periodically evaluating the EP to ensure the achievement of the goal and meeting the needs of students, society, and show the focus of the mechanisms on the continuous improvement of the EP*
* *Monitoring and periodic evaluation of the EP should include:*
	+ *the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the discipline taught;*
	+ *changes in the needs of society and the professional environment;*
	+ *workload and student achievement;*
	+ *the effectiveness of student assessment procedures;*
	+ *expectations, needs and satisfaction of students with EP training;*
	+ *educational environment and support services, and their compliance with the objectives of the EP*
* *The management of the EP must demonstrate a systematic approach in monitoring and periodically assessing the quality of the EP*
* *The EO, the Head of the EP should determine a mechanism for informing all interested parties about any planned or taken actions in relation to the EP*
* *All changes made to the EP must be published*

***Evidence***

The university has developed mechanisms for monitoring and periodically evaluating the EP, aimed at continuous improvement of the EP. The requirements are regulated in the documented procedures for monitoring, evaluating and updating the EP.

As part of the EP, the progress of the student is monitored, the tools of which are presented on the Educational Portal of the University. The progress of a particular student can be seen on the internal resources of the university.

As a result of the work of EEC experts online and offline, it was possible to find planning documents when visiting the department, which reveal the criterion and the statement that the effectiveness of monitoring and periodic evaluation of the BEP increases the level of employment of graduates.

The procedure for informing interested parties about changes in the EP has been described and is being implemented in practice. At the same time, the list of categories of these persons is not given, as well as there are no examples of such information.

The needs and satisfaction of students in the BEP 670200 OTTMC (Master's program)are analyzed in the course of various surveys conducted at the university in accordance with the survey methods used in the KSTU. The results of the survey of students show that their needs are fully or mostly satisfied, deviations from this assessment are within the margin of error.

Data on customer satisfaction in accordance with the mechanisms adopted at the university are considered at meetings of collegiate bodies with subsequent decision-making on the improvement of the EP.

Informing the public about changes in the EP is organized in the form of publishing updated EP on the EO website.

***Analytical part***

EEC notes the presence in KSTU of automated procedures for collecting information for monitoring the EP using subsystems of the educational portal of the university. The information received is processed within the framework of collegiate bodies and used to improve the EP, which can be seen in the minutes of meetings of collegiate bodies at the school level in which accredited EPs are implemented.

A fairly wide list of documents proving the participation of students, employers and other stakeholders in the revision of the BEP is presented to the experts of the EEC (Resolution of the round table of April 19, 2019, etc.). Among the procedures that deserve recommendations for the management of the EP, the EEC notes informing the public about changes in the EP, which boils down to publishing updated EPs on the EO website. It is difficult for stakeholders who did not participate in making changes to find out what exactly changed and when.

***Strengths/Best Practices in BEP 670200 Operation of Transportation Technological Machines and Complexes (Master's):***

* According to this standard, the EP has 1 strong point: evidence of the participation of students, employers and other stakeholders in the revision of the EP is presented in full. At the same time, systematic measures are given that demonstrate the best practice for the specified criterion.

***Recommendations for BEP 670200 Operation of transport and technological machines and complexes (master's degree):***

* The leadership of the BEP is recommendedhave on the site page a fold with a description of the EP, a constantly updated date and a brief description of the latest changes in the OP. Deadline: from 01 September 2023.

***Conclusions of the EEC according to the criteria:***

***According to the standard "Continuous monitoring and periodic evaluation of educational programs" in the BEP 670200 Operation of transport and technological machines and complexes (master's degree), 11 criteria are disclosed, of which 1 has a strong / best practice, 9 have a satisfactory position and 1 criterion suggests improvement***

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

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

***Evidence***

The university introduced student-centered education in the educational program 670200 OTTMC. Knowledge assessment provides an objective assessment of the achievements of each student of the objectives of the EP.

In the Self-Assessment Report, there was a mention of the existence of an individual educational trajectory for students by registering for elective disciplines. The equality of opportunities for learning in different languages is emphasized. As a result of the EEC visit, it was not possible to find such criteria that may take into account some other characteristics of students, in addition to the language of instruction and preferences for disciplines. The issues of inclusive education, the issues of providing individual training plans are occasionally reflected, as a demonstration of the flexibility of the learning path.

Within the framework of the BEP 670200 Operation of transport and technological machines and complexes (master's degree)innovative teaching methods are used, projection equipment was received and trainer S.Yu. Dresviannikov was trained on innovative technologies.

The approach of the university to assess student satisfaction with the discipline and its teaching is presented.

Comments are given on the issue of correlation in the ratio between hours for practice and theory within the framework of the organization of the educational process. There are links to the regulatory document “Regulations on the organization of the educational process at KSTU based on the credit system about. ECTS 2022”.

The procedure for responding to complaints from students within the EP is well developed and institutional in nature, undergraduates have many ways to convey their concerns to management.

Mechanism for evaluating learning outcomes within the framework of the BEP 670200 Operation of transport and technological machines and complexes (master's degree)developed quite thoroughly. The procedure for the formation of knowledge assessment is reflected in the “Regulations on the organization of the educational process at KSTU based on the credit system ECTS\_2022”, it is clear and effectively reflected in the self-assessment report. The appeals process is known and transparent.

In accordance with clause 5.2.9 of the Self-Assessment Report, as a confirmation of support for the autonomy of students with simultaneous guidance and assistance from the teacher, an analysis of the academic mobility of students and undergraduates of the department in 2015-2023 is presented. At the same time, only in 2018, two mobility of undergraduates took place and it is not clear from the submitted documents whether they are students in the BEP 670200 Operation of transport and technological machines and complexes (master's degree).

The university provides students with opportunities to form an individual educational trajectory by registering for elective disciplines. The result of the registration of students is the formation of an individual curriculum (IC), which reflects the academic disciplines, both a mandatory component and an optional component.

Teachers of BEP 670200 Operation of transport and technological machines and complexes (master's degree)during the lesson (online visit to the lecture by Dresviannikov S.Yu.) they use multimedia technology in the mode of dialogue and non-contact information interaction.

For each type of control, the teacher chooses the appropriate evaluation tool, which is the form of independent work. To stimulate independence and autonomy in the educational process, such teaching methods are used as the creation of projects, the preparation of public speaking, the artificial creation of uncertainty or problem situations, the preparation of professionally directed videos and presentations.

Independent work of students individually and under the guidance of a teacher (IWS and IWST) is planned by each teacher in the WC of the discipline (Syllabus), in which students can find information about the amount of independent work, the time of their implementation and the maximum score when evaluating the results of their implementation. Each teacher assigned to the discipline independently determines the methods and forms of organization of the IWS.

The university has a system for responding to complaints and recommendations from students and parents through various forms of feedback. During the interview, however, none of the trainees could recall any experience with any of these forms.

The transparency of the knowledge assessment procedure is ensured by the placement of current grades, intermediate and final results in electronic journals on the Educational Portal, video recording of exams, collective decision-making on awarding qualifications. Thus, each student can see the state of their educational achievements and discuss them with advisors, PTS and faculty leaders.

In order to implement student-centered learning and teaching, the manual of the BEP 670200 Operation of transport and technological machines and complexes (master's degree)ensures timely informing students about the criteria used and procedures for evaluating results

Persons who have completed their studies in the educational program of higher or postgraduate education and successfully passed the final certification are awarded the degree of "bachelor" ("master") and are issued a diploma with an application (transcript) and a pan-European diploma supplement (Diploma Supplement).

The Diploma Supplement (transcript) indicates the latest grades according to the point-rating system of assessments for all types of academic work, indicating their volume in academic credits and hours.

After completing the training, the department hears the teacher's report on the PC and decides whether to approve or reject the report, and also makes recommendations on using the results of the PC, taking into account its practical significance for improving the educational process and scientific work.

***Analytical part***

The EEC notes that for most of the criteria of the standard, the EO and the management of the EP ensure the fulfillment of the criteria through sufficient institutional mechanisms, as well as their strict implementation.

Nevertheless, it should be noted that flexible learning paths are understood in terms of the freedom to choose disciplines within the EP, and special categories of students include persons with information perception characteristics that are not within the EP (Self-assessment report, interview with the EP management). At the same time, there is no opportunity to develop an individual schedule for attending classes or passing a session (interviews with students).

In addition, an interview with the PTS indicates that the leadership of the EP is rather passive in developing its own methods of teaching academic disciplines. The Self-Assessment Report does not provide evidence of their own research in this area, and in interviews, teachers indicate the absence of any systemic encouragement of innovative activities in the field of academic work.

***Strengths/Best Practices in BEP 670200 Operation of Transportation Technological Machines and Complexes (Master's):***

* By this standard, OPs have no strengths.

***Recommendations for BEP 670200 Operation of transport and technological machines and complexes (master's degree):***

* The management of the EO is recommended to develop and implement in the QMS a mechanism for assessing students and ensuring consistency, transparency and objectivity in the application of the mechanism for assessing the educational achievements of students, and moreover, develop their own research on teaching methods and assessing achievements in core disciplines. Deadline: until September 01, 2024;

***Conclusions of the EEC according to the criteria:***

***According to the standard "Student-centered learning, teaching and performance assessment" according to the BEP 670200 Operation of transport and technological machines and complexes (Master's program), 10 criteria are disclosed, of which 10 have a satisfactory position.***

*6.6. Standard "Students"*

* *The EO must demonstrate the existence of a policy for the formation of a contingent of students in the context of the EP, ensure transparency and publicity of its procedures governing the life cycle of students (from admission to completion)*
* *The management of the EP should determine the procedure for the formation of a contingent of students based on*
	+ *minimum requirements for applicants;*
	+ *the maximum size of the group when conducting seminars, practical, laboratory and studio classes;*
	+ *predicting the number of government grants;*
	+ *analysis of available material, technical, information resources, human resources;*
	+ *analysis of potential social conditions for students, incl. provision of places in the hostel*
* *The management of the EP must demonstrate readiness to conduct special adaptation and support programs for newly enrolled and foreign students*
* *The EO must demonstrate the 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 EO should cooperate with other educational organizations and national centers of the "European Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers" ENIC / NARIC in order to ensure comparable recognition of qualifications*
* *The EO should provide an opportunity for external and internal mobility of students of the EP, as well as readiness to assist them in obtaining external grants for training*
* *The management of the EP must demonstrate readiness to provide students with internship places, promote the employment of graduates, and maintain contact with them.*
* *The EO should provide for the possibility of providing EP graduates with documents confirming the qualifications received, including the learning outcomes achieved, as well as the context, content and status of the education received and evidence of its completion.*

***Evidence***

The university has certain, published and consistently applied internal regulations governing all periods of study, including admission, academic performance, recognition and certification, as well as recognition of previous learning outcomes, competencies.

During the visit, the EEC demonstrated the criteria and requirements for applicants of the BEP 670200 Operation of transport and technological machines and complexes (master's degree),as well as access to the admission rules.

With regard to the BEP, it was not possible to study an example of interest from foreign citizens, which is why the approaches to conducting special adaptation and support programs for students enrolled in the first year, foreign students and students on mobility are not fully applicable.

At KSTU determined the mechanism for recognition of learning outcomes in accordance with the Lisbon Recognition Convention. An example of agreements on academic mobility with other universities is shown directly within the framework of the program accreditation of the BEP 670200 Operation of transport and technological machines and complexes (master's degree),which reflects the opportunities for EO to 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.

A striking example of encouraging students to self-education and development outside the main program (extracurricular activities) is the work on the project on the restoration of motor vehicles by teachers (graduates) and students of the department "AT" within the framework of the Student auto-moto club "BJOR". At the same time, the existence of a real mechanism for supporting gifted students was not demonstrated .

Attention is drawn to the fact of thoroughness and reasoning in the approaches within the framework of the EP on the organization of practices and employment of graduates through systematic work with employers and the use of a database of partner enterprises.

The activities of the EO to provide graduates of the EP with documents confirming qualifications are organized in accordance with the GNR, a diploma, a European Diploma Supplement and a transcript are issued.

Upon completion of the undergraduate / graduate / doctoral studies, a diploma is issued indicating the degree awarded in the EP, a transcript is issued in three languages and the European Diploma Supplement is issued to all graduates free of charge.

***Analytical part***

In the EO, the policy of forming the contingent of students is properly developed and applied in the context of the EP. Existing procedures are in accordance with national legislation. The management of accredited EPs conducts systematic work to ensure the quality of the organization of practices and the future employment of graduates. There are no obstacles to academic mobility in the educational institutions, the procedure for re-crediting learning outcomes is transparent and understandable.

The members of the EEC got acquainted with the material and technical base of the practices of the accredited programs assigned to the Department of “AT”: Motor transport of the Ministry of Internal Affairs of the Kyrgyz Republic, LLC “Chuyuraltransservice”, LLC “Servisstan”, Motor depot of the Department of Health of Bishkek, MP “Bishkek Passenger Motor Transport Enterprise”, LLC “Imarat Story”, State ATP UdPiP KR, LLC “Borusan Makina Kyrgyzstan”, BARK named after K.Kolbayev, “Avtouchkombinat” LLC, “HEPPjob” LLC, “SLEK” LLC.

At the same time, the EEC believes that the possibility of external mobility within the framework of BEP 670200 "OTTMC" is insufficiently provided, since the relevant agreements with foreign partners exist only on paper.

***Strengths/Best Practices in BEP 670200 Operation of Transportation Technological Machines and Complexes (Master's):***

* According to this standard, the OP has 3 strengths:

1) According to BEP 670200 Operation of transport and technological machines and complexes (master's degree)there is an opportunity to 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;

2) EO reveals the potential of students for self-education and development outside the main program (extracurricular activities within the framework of the student auto-moto club "BJOR");

3) the presence of a significant number of existing contracts with motor transport enterprises in Bishkek allows us to state EO that the public association provides students with places of professional practice, promotes the employment of graduates of budgetary and paid forms of education, and maintains relations with them.

***Recommendations for BEP 670200 Operation of transport and technological machines and complexes (master's degree):***

* The management of the EO is recommended to develop a mechanism to support gifted students. Deadline: until January 01, 2024.

***Conclusions of the EEC according to the criteria:***

***According to the standard "Students" for educational programs BEP 670200 Operation of transport and technological machines and complexes (master's degree), 11 criteria are disclosed, of which 3 have a strong position, 7 have a satisfactory position, 1 suggests improvement.***

*6.7. Standard "**Professorial Teaching Staff"*

* *The EO must have an objective and transparent personnel policy, including in the context of the EP, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff*
* *The EO must demonstrate the compliance of the staff potential of the teaching staff with the specifics of the EP*
* *The management of the EP must demonstrate awareness of responsibility for its employees and provide them with favorable working conditions*
* *The management of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning*
* *The EO must determine the contribution of the teaching staff of the EP to the implementation of the development strategy of the PA, and other strategic documents*
* *The EO should provide opportunities for career growth and professional development of the teaching staff of the EP*
* *The management of the EP must demonstrate readiness to involve practitioners in the relevant sectors of the economy in teaching*
* *The EO must demonstrate the motivation for the professional and personal development of EP teachers, including encouragement for the integration of scientific activities and education, the use of innovative teaching methods*
* *An important factor is the readiness to develop academic mobility within the EP, to attract the best foreign and domestic teachers*

***Evidence***

The EO implements an objective and transparent personnel policy and is responsible for its employees and provides them with favorable working conditions.

The EO has developed a number of documents regulating personnel policy. The recruitment process is accessible and transparent. Personnel policy measures are applicable to all structural subdivisions of EO and BEP 670200 Operation of transport and technological machines and complexes (master's degree) is no exception. The EO demonstrates the compliance of the personnel potential of the accredited EP with the existing requirements.

The university and the management of the EP are aware of the responsibility for their employees, measures to ensure the well-being of employees have been demonstrated.

As part of the analysis of the satisfaction of PTS with incentive measures and remuneration, in general, there is a tendency for dissatisfaction in the department “AT”, however, within the framework of the presented survey results and data from the self-assessment report, motivating factors for the growth of welfare of teaching staff and stimulation of their professional activities are not reflected. The interview with the teaching staff did not reveal the whole incentive mechanism for the PTS.

The development of academic mobility has not been demonstrated, the involvement of the best foreign and domestic teachers, practitioners in the implementation of BEP 670200 Operation of transport and technological machines and complexes (master's degree)not marked. At the same time, points on the order and selection criteria, as well as the logic of attracting individual specialists, are not accentuated. Partners within the framework of cooperation are presented, but their participation in the organization of the educational process is not shown.

All information regarding personnel procedures is available to PTS and staff through a personal account on the Educational Portal and corporate mail.

The existing staffing of the department does not quite correspond to the specifics of the EP cluster. The average age of the teaching staff of the department, especially those with degrees, raises concerns about the possibilities for further development of the EP of about 56 years, the proportion of those with degrees in the department is relatively small (50%). Many teachers have to undergo additional training for teaching special disciplines presented by annual internship programs. To ensure the educational process with undergraduates, degreed employees are involved, but for the department there is an acute personnel issue in terms of increasing the degree, since the average age is high and there are no receivers in the context of the development of the BEP 670200 Operation of transport and technological machines and complexes (master's degree).

Favorable working conditions are created in the EO for PTS and employees, which is expressed in the appropriate equipment of workplaces in classrooms, in compliance with sanitary standards and requirements, modern technical equipment of the educational and working process.

As noted in the "Management of the educational program" standard, ensuring personal and professional growth is one of the strengths of the EO in general and accredited EPs in particular.

***Analytical part***

Having studied the presented data, the EEC came to the conclusion that, according to the “Professorial Teaching Staff ” standard, the EO has both strengths and satisfactory aspects.

At the same time, the management of the EO demonstrates concern for employees, which is noted in an interview with the PTS. Also in the Self-Assessment Report, strategic documents, as well as on the website of the university, much attention is paid to the development of human potential (training, advanced training) and the creation of comfortable working conditions.

TO attracts teachers-practitioners to the educational process 670200 Operation of transport and technological machines and complexes (master's degree)at least 4 people as managers from enterprises annually, who ensure that the quality of PTS meets the established qualification requirements, institutional strategy, and objectives of the PEP. According to the PTS survey (Appendix 3), practitioners are often or very often involved (more than 75.8% of the answers in the questionnaires).

It is advisable to organize training at the expense of internal resources on the widespread use of information and communication technologies and software tools in the educational process (for example, on-line training, e-portfolio, МООСs, etc.).

***Strengths/Best Practices in BEP 670200 Operation of Transportation Technological Machines and Complexes (Master's):***

* The management of the EP and EO demonstrated the compliance of the quality of the PTS with the established qualification requirements, institutional strategy, and the goals of the EP;
* Management of the EP and EO attracts to the teaching of practitioners of the relevant sectors of the economy with professional competencies that meet the requirements of the BEP.

***Recommendations for BEP 670200 Operation of transport and technological machines and complexes (master's degree):***

* It is recommended that the management of the EP and EO organize training at the expense of internal resources on the widespread use of information and communication technologies and software tools in the educational process (for example, on-line training, e-portfolios, МООСs, etc.). Deadline: until 01.10.2023.

***Conclusions of the EEC according to the criteria:***

***According to the standard "*** ***Professorial Teaching Staff" for BEP 670200 Operation of transport and technological machines and complexes (master's degree), 10 criteria are disclosed, of which 2 are strong, 8 have a satisfactory position.***

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

* *The EO must guarantee a sufficient number of educational resources and student support services to ensure the achievement of the goal of the EP*
* *The EO must demonstrate the sufficiency of material and technical resources and infrastructure, taking into account the needs of various groups of students in the context of the EP (adults, working, foreign students, as well as students with disabilities)*
* *The management of the EP must demonstrate the existence of procedures for supporting various groups of students, including information and counseling*
* *The EP management must demonstrate the compliance of information resources with the specifics of the EP, including:*
	+ *technological support for students and teaching staff (for example, online learning, modeling, databases, data analysis programs);*
	+ *library resources, including a fund of educational, methodical and scientific literature on general education, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases;*
	+ *examination of the results of research, final works, dissertations for plagiarism;*
	+ *access to educational Internet resources;*
	+ *functioning of WI-FI on the territory of the educational organization.*
* *The EO demonstrates the planning of providing the EP with educational equipment and software similar to those used in the relevant sectors of the economy*

***Evidence***

The university is developing the infrastructure used for the implementation of the EP. The educational process within each EP is provided with the necessary classroom fund, educational laboratories, computer classes.

According to the accredited educational program 670200 Operation of transport and technological machines and complexes (master's degree)computer classes have the following specialized software: AutoCAD, ArcGIS, QGIS.

The EP resource planning system is aimed at eliminating the reasons for the discrepancy between the characteristics of the educational process and the requirements of consumers. Planning stages: an assessment of the actual level of resource provision and existing needs in structural units is carried out; an analysis of the effectiveness of the use of available resources is carried out; an assessment is made of the degree of their influence on the quality of the results of the activities of units; the opinion of students about the quality of the resource support of the educational program is taken into account.

In addition, the survey takes into account the opinion of the heads of organizations or departments, in whose direct subordination these graduates work, on the discrepancy between the level of theoretical and practical training in the formation of competencies necessary for the implementation of certain types of activities in the performance of official duties. Then an application is formed with justification and the actual need for resources for the next financial year.

In general, surveys show that the existing material and technical equipment is sufficient for the existing contingent of students in the accredited EP, but the modernization of the material base is clearly required.

The learning environment for students, including material, technical and information resources, is fully consistent with the goals of the educational program. Every year, the development of the infrastructure used for the implementation of the EP is carried out based on the results of monitoring satisfaction with the infrastructure, students, PTS, employees and other stakeholders.

At KSTU created conditions for the functioning of the electronic information and educational environment for educational programs based on: AIS, AVN Edoc; Moodle portal, based on a wired connection to the Internet in classrooms and a wireless Wi-Fi network, providing access to the electronic information and educational environment.

The presence in the EO of a system of measures to support various categories of students is shown on the example of socially vulnerable categories of citizens (disabled people, orphans, large families, etc.).

***Analytical part***

Remote inspection and analysis of the submitted documents shows that the logistics and infrastructure are at a level sufficient to ensure the quality of the educational process.

The EO demonstrates the existence of support systems for various groups of students, including the current mechanism of inclusive education.

During the visit, EEC repeatedly presented examples of conditions (strong research base, efficient equipment and highly qualified personnel, etc.) for conducting research, publishing the results of SRW and development of PTS, employees and students, integrating science and education with a focus on the applied side of research activities aimed at the real sector of the economy.

The information resources involved in the implementation of the BEP 670200 Operation of transport and technological machines and complexes (master's degree) are sufficient, and their updating is ongoing. The EEC notes the strict quality control of the written work by students by checking for plagiarism.

In accordance with the regulations in force at the university, labor protection and safety measures are provided during the organization of the educational process.

***Strengths/Best Practices in BEP 670200 Operation of Transportation Technological Machines and Complexes (Master's):***

* According to this standard, the EP highlights the EEC presence of conditions for conducting research, publishing the results of SRW and development of PTS, employees and students, integrating science and education with a focus on the applied side of research activities, aimed at the real sector of the economy .

***Recommendations for BEP 670200 Operation of transport and technological machines and complexes (master's degree):***

* Under this standard, EPs do not require recommendations.

***Conclusions of the EEC according to the criteria:***

***According to the standard "Educational Resources and Student Support Systems" for BEP 670200 Operation of transport and technological machines and complexes (Master's program), 11 criteria are disclosed, of which 1 has a strong position, 10 have a satisfactory position.***

*6.9. Public Information Standard*

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

***Evidence***

The EO publishes information about the study program, teaching, learning, assessment procedures, passing scores, learning opportunities provided to students, expected learning outcomes, academic degree/qualifications awarded, as well as employment opportunities for graduates through a unified system of information support for students and PTS, including the university website.

Information about the implemented BEP 670200 Operation of transport and technological machines and complexes (master's degree)posted on the university website.

The EO website contains detailed information about the PTS.

All information on passing scores and learning opportunities is presented in the respective GNR.

Information on the employment of graduates is presented on the university website . Control over the employment of graduates is carried out by collecting certificates from the place of work.

Mailing lists, booklets and information are used to inform graduates about job opportunities.

Informing all interested parties regarding the EP is carried out using the University website, electronic means of communication (e-mail, mass media) and distribution of printed information.

Informing the public provides for support and explanation of national programs for the development of the country and the system of higher and postgraduate education. There are tabs on the website of the university, where state programs, regulatory documents MES KR. There are separate tabs dedicated to educational programs.

The main means of informing the public (future students, their parents, students, graduates and employers) is the official website of the University https://kstu.kg/, social media accounts.

Information about EO partners is published on the main page of the site.

The EO has a mechanism for informing the public about its activities, about the conditions and features of the implementation of the initially accredited EP. The management of the EP carries out its activities on the basis of the principles of transparency, openness, involvement and awareness of students, teaching staff, employers and other interested parties in the implementation of the EP, initiative, continuous development and adaptation to changing conditions.

The EO publishes the necessary information about the accredited study program in a timely manner, which has also been repeatedly demonstrated in previous standards.

Information about the PTS of the EP is presented in detail, the university website contains constantly updated objective data on the PTS.

***Analytical part***

The study of the information presented on the website, the university, in social networks, the Self-Assessment Report, the questionnaires of the PTS and students, as well as in the answers during the interview, allows us to conclude that there is a fairly large amount of information about the Institution “KSTU named after A.I. I. Razzakov”, available to interested parties. Open access to the portfolio of teaching staff, detailed information about individual EPs

The EO is represented in the media and social networks, although the activity of different structural divisions and institutions varies. The public is informed about the events taking place at the university, much attention is paid to image work.

The EEC notes that there are links to the news resources of the university, but at the same time data on publications on interaction with partners within the framework of the BEP 670200 Operation of transport and technological machines and complexes (master's degree)are not given. Data on joint scientific publications with partners is not provided, because we are talking about the preparation of undergraduates (it is appropriate to see scientific publications in collaboration with researchers from centers, institutes, etc. The fact that round tables are held is not disputed!)

***Strengths/Best Practices in BEP 670200 Operation of Transportation Technological Machines and Complexes (Master's):***

* By this standard, EPs have no strengths.

***Recommendations for BEP 670200 Operation of transport and technological machines and complexes (master's degree):***

- There are no recommendations for this EP standard.

***Conclusions of the EEC according to the criteria:***

***According to the standard "Informing the public" according to the PEP 670200 Operation of transport and technological machines and complexes (master's degree), 12 criteria are disclosed, of which 12 have a satisfactory position.***

1. **OVERVIEW OF STRENGTHS/BEST PRACTICE FOR EACH STANDARD**

**For BEP *670200 Operation of transport and technological machines and complexes (master's degree):***

**According to the standard "Management of the educational program":**

* The development of a quality assurance culture at the organizational level is presented. It is reflected in the planning of the work of the entire complex of mechanisms of the functional matrix of processes in the Work Plan of KSTU. I. Razzakov for the 2022-23 academic year. It is gratifying to note that the response to the results of previous external examinations was presented in the form of action plans to eliminate the comments of the EEC on accreditation of BEP 670200 Operation of transport and technological machines and complexes (master's degree) . The EO demonstrated a clear definition of those responsible for business processes in the quality assurance of the BEP, the delimitation of the functions of collegiate bodies. Such a practice in the implementation of business processes should be recognized as a positive experience.

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

* Elaboration of the content of the BEP, taking into account the volume of theoretical training, research, professional practice;
* Preparing students for professional certification.

**According to the standard "Continuous monitoring and periodic evaluation of the main educational program"**

- evidence of the participation of students, employers and other stakeholders in the revision of the BEP is presented in full. At the same time, systematic measures are given that demonstrate the best practice for the specified criterion;

**According to the standard " Students"**

- According to BEP 670200 Operation of transport and technological machines and complexes (master's degree)there is an opportunity to 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;

- EO reveals the potential of students for self-education and development outside the main program (extracurricular activities within the framework of the student auto-moto club "BJOR");

- the presence of valid contracts with motor transport enterprises in Bishkek allows us to state that the EO provides students with internship places, promotes the employment of graduates, and maintains relations with them.

**According to the standard "Professorial Teaching Staff":**

- The management of the EP and EO demonstrated the compliance of the quality of the PTS with the established qualification requirements, institutional strategy, and the objectives of the EP;

- The management of the EP and EO initiates the involvement in the teaching of specialists from the relevant sectors of the economy who have professional competencies that meet the requirements of the EP.

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

- According to this standard, the EP highlights the presence of conditions for conducting research, publishing the results of research and development of teaching staff, employees and students, integrating science and education with a focus on the applied side of research, aimed at the real sector of the economy, as a strength of the EEC .

1. **OVERVIEW RECOMMENDATIONS FOR IMPROVING QUALITY FOR EACH STANDARD**

**For BEP 670200 Operation of transport and technological machines and complexes (master's degree):**

**According to the standard "Management of the educational program":**

- The head of the EP to build effective mechanisms for ensuring the quality of training of undergraduates with academic mobility and the implementation of joint / double-diploma education. Deadline: until January 01, 2024;

**According to the standard "Information Management and Reporting"**

* The head of the EP to demonstrate the implementation of the mechanism for ensuring the protection of information through the procedure for appointing persons responsible for the reliability and timeliness of providing information on the resources of the Department “AT”. Deadline until 01.09.2023

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

* Guideline of the BEP 670200 Operation of transport and technological machines and complexes (master's degree)it is recommended to provide for the possibility of recruiting undergraduates for double-degree and (or) joint EPs with foreign universities. Deadline: until September 30, 2024.

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

* It is recommended that EO management keep the date and brief description of the latest changes to the EP on the BEP description page. Deadline: from 01 September 2023.

**According to the standard "Student-Centered Learning, Teaching and Assessment":**

* The management of the EO is recommended to develop and implement in the QMS a mechanism to ensure consistency, transparency and objectivity in the application of the mechanism for assessing the educational achievements of students Deadline: until September 01, 2024;

**According to the standard "Students":**

- The management of the EO is recommended to develop a mechanism to support gifted students. Deadline: until January 01, 2024.

**According to the standard " Professorial Teaching Staff ":**

* Guidelines BEP 670200 Operation of transport and technological machines and complexes (master's degree)it is recommended to organize training at the expense of internal resources on the widespread use of information and communication technologies and software tools in the educational process (for example, on-line training, e-portfolio, МООСs, etc.). Deadline: until 01.10.2023
1. **OVERVIEW OF RECOMMENDATIONS FOR THE DEVELOPMENT OF EDUCATIONAL ORGANIZATION**

A survey of students and PTS indicates the need to accelerate the renewal of the material and technical base. It is recommended to increase the number of classrooms equipped with modern multimedia tools for the educational process (projectors, interactive panels, graphics tablets). Demanded by students and PTS repair, updating the classroom fund.

One of the recommendations based on the study of the opinion of the PTS is to improve access to the Internet and accelerate the replenishment of the library fund with specialized literature in the Kyrgyz language.

1. **RECOMMENDATION TO THE ACCREDITATION BOARD**

AR Accreditation Council the basic educational program 670200 Operation of transport and technological machines and complexes (master's degree) of the Kyrgyz State Technical University to be accredited for a period of 5 (five) years.

**Annex 1 . Evaluation table "PROGRAM PROFILE PARAMETERS"**

**Conclusion of the external expert commission for assessing the quality of the educational program 670200 Operation of transport and technological machines and complexes (master's degree) of the Kyrgyz State Technical University named after I. Razzakov**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. p \ p** | **No.****n\n** | **Criteria for evaluation** | **Position of the educational organization** |
| **strong** | **Satisfactory** | **Assumes improvement** | **Unsatisfactory** |
| **Standard 1. Management of the main educational program** |  |  |  |  |
| 1. |  | The EO must have a published quality assurance policy that reflects the relationship between research, teaching and learning |  | **+** |  |  |
| 2. |  | The EO must demonstrate the functioning of an internal quality assurance system that facilitates the implementation of the quality assurance policy of the PRO |  | **+** |  |  |
| 3. |  | The EO must demonstrate a clear definition of those responsible for business processes in the quality assurance of the BEP, the delimitation of the functions of collegial bodies | **+** |  |  |  |
| 4. |  | Management must provide evidence of the transparency of the BEP management mechanism, including planning and risk identification, resource allocation |  | **+** |  |  |
| 5. |  | The EO must demonstrate the functioning of the mechanisms for the formation and regular revision of the development plan for the BEP, monitoring its implementation |  | **+** |  |  |
| 6. |  | The EO should ensure the transparency of the development plan for the development of the BEP by involving representatives of stakeholder groups, including employers, students and PTS |  | **+** |  |  |
| 7. |  | The leadership must demonstrate the individuality of the development plan for the BEP, its consistency with the national development priorities and the strategy for the development of the EO |  | **+** |  |  |
| 8. |  | Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint / double diploma education and academic mobility |  | **+** |  |  |
| 9. |  | The EO must demonstrate the management of innovation within the BEP, including the analysis and implementation of innovative proposals |  | **+** |  |  |
| 10. |  | The management must demonstrate their competence in the quality management of the BEP, confirm the completion of advanced training courses in education management programs |  | **+** |  |  |
| 11. |  | The management of the BEP should strive to ensure that the progress made since the last external quality assessment procedure is taken into account when preparing for the next procedure. |  | **+** |  |  |
| **Total by standard** | 1 | 10 | 0 | 0 |
| **Standard 2: Information management and reporting** |  |  |  |  |
| 12. |  | The EO must demonstrate the functioning of the mechanism for collecting, analyzing and managing information based on the use of modern information and communication technologies and software |  | + |  |  |
| 13. |  | BEP management must demonstrate the systematic use of processed, adequate information to improve the internal quality assurance system |  | + |  |  |
| 14. |  | The management should show the functioning of the reporting mechanism, including the evaluation of the effectiveness of the BEP, the activities of structural units in the framework of quality assurance |  | + |  |  |
| 15. |  | The EO must determine the frequency, forms and methods for assessing the management of the BEP, the activities of collegial bodies and structural divisions, and the implementation of scientific projects |  | + |  |  |
| 16. |  | The EO must demonstrate the implementation of the mechanism for ensuring the protection of information, including the identification of persons responsible for the accuracy and timeliness of the provision of information |  |  | **+** |  |
| 17. |  | EO must show the involvement of students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them |  | + |  |  |
| 18. |  | The management of the BEP must demonstrate the existence of mechanisms for communication with students, employees and other stakeholders, including conflict resolution |  | + |  |  |
| 19. |  | The EO must provide a measurement of the degree of satisfaction with the needs of teaching staff, students and staff in ensuring the quality of the BEP and demonstrate evidence of elimination of identified deficiencies |  | + |  |  |
|  |  | *The information collected and analyzed by the university within the framework of the BEP should take into account:* |  |  |  |  |
| 20. |  | key performance indicators |  | + |  |  |
| 21. |  | the dynamics of the contingent of students in the context of forms and types of education |  | + |  |  |
| 22. |  | academic performance, student achievement and dropout |  | + |  |  |
| 23. |  | satisfaction of students with the quality of the implementation of the BEP, training in the BEP |  | + |  |  |
| 24 |  | availability of educational resources and support systems for students |  | + |  |  |
| 25 |  | employment and career growth of graduates |  | + |  |  |
| 26. |  | Management should ensure that there is a mechanism in place to inform stakeholders of any planned or undertaken actions within the BEP. |  | + |  |  |
| 27. |  | The management of the BEP should contribute to the provision of all necessary information in the relevant fields of science. |  | + |  |  |
| **Total by standard** | 0 | 15 | 1 | 0 |
| **Standard 3. Development and approval of the main educational program** |  |  |  |  |
| 28. |  | The EO must demonstrate that there is a documented procedure for developing, approving, implementing, monitoring and evaluating the effectiveness of the BEP at the institutional level. |  | + |  |  |
| 29. |  | The EO must show the collegial nature of the development and quality assurance of the BEP (participation of students, PTS and other stakeholders) |  | + |  |  |
| 30. |  | Management must demonstrate the conduct of external reviews of the BEP |  | + |  |  |
|  |  | *Management must demonstrate that the content of the BEP is in line with the stated objectives and expected learning outcomes:* |  |  |  |  |
| 31. |  | development of BEP based on a student-centered approach to learning and teaching, State Educational Standard of the Kyrgyz Republic |  | + |  |  |
| 32. |  | certainty of the program structure based on the European Credit Transfer and Accumulation System ( ECTS )  |  | + |  |  |
| 33. |  | elaboration of the content of the BEP, taking into account the volume of theoretical training, research, professional practice | + |  |  |  |
| 34. |  | compliance of the content of academic disciplines and learning outcomes with each other and with the corresponding level of education (bachelor's, master's, doctoral studies) determined by the NSC, QF - EHEA |  | + |  |  |
| 35. |  | the validity of the influence of disciplines and their focus on ensuring that each student masters the expected results |  | + |  |  |
| 36. |  | development of procedures for assessing the educational achievements of students, including final certification |  | + |  |  |
| 37. |  | An important factor is the possibility of preparing students for professional certification | + |  |  |  |
| 38. |  | The management must demonstrate the presence of a model of the BEP graduate describing the learning outcomes and personal qualities |  | + |  |  |
| 39. |  | The leadership must demonstrate the uniqueness of the BEP, its positioning in the educational market, (regional / national / international) |  | + |  |  |
| 40. |  | An important factor is the presence of a two-degree and (or) joint EP with foreign universities and a demonstration of their practical implementation. |  | **+** |  |  |
| **Total by standard** | 2 | eleven | 0 | 0 |
| **Standard 4. Continuous monitoring and periodic evaluation of the main educational program** |  |  |  |  |
| 41. |  | Management must demonstrate that there is a documented procedure for monitoring and periodically evaluating to achieve the purpose of the BEP and continually improve its content. |  | + |  |  |
| 42. |  | Management should demonstrate the effectiveness of monitoring and periodically evaluating the BEP |  | + |  |  |
|  |  | *Monitoring and periodic evaluation of the BEP should consider:* |  |  |  |  |
| 43. |  | the content of the program in the context of the latest achievements of science and technology in a particular discipline |  | + |  |  |
| 44. |  | changing needs of society and the professional environment |  | + |  |  |
| 45. |  | workload, performance and graduation of students |  | + |  |  |
| 46. |  | the effectiveness of procedures for assessing the educational achievements of students |  | + |  |  |
| 47. |  | needs and satisfaction of students |  | + |  |  |
| 48. |  | compliance of the educational environment and the activities of support services with the goals of the BEP |  | + |  |  |
| 49. |  | The management should ensure the revision of the structure and content and the BEP, taking into account changes in the labor market, the requirements of employers and the social demand of society, the degree of student satisfaction |  | + |  |  |
| 50. |  | Management must provide evidence of the participation of students, employers and other stakeholders in the revision of the BEP | + |  |  |  |
| 51. |  | The EO should ensure that all stakeholders are aware of any planned or undertaken actions, including the publication of changes made to the BEP. |  |  | + |  |
| **Total by standard** | 1 | 9 | 1 | 0 |
| **Standard 5. Student-centered learning, teaching and assessment** |  |  |  |  |
| 52. |  | The leadership of the BEP must ensure respect and attention to the various groups of students and their needs, providing them with flexible learning paths. |  | + |  |  |
| 53. |  | The leadership should ensure teaching based on modern achievements of world science and practice in the field of training, the use of various modern teaching methods and the assessment of learning outcomes that ensure the achievement of the goals of the BEP |  | + |  |  |
| 54. |  | The management should determine the mechanisms for distributing the study load of students between theory and practice, ensuring the development of the content and achievement of the goals of the BEP by each graduate |  | + |  |  |
| 55. |  | An important factor is the presence of own research in the field of methods of teaching OOP disciplines |  | + |  |  |
| 56. |  | The EO must ensure that the procedures for evaluating learning outcomes are consistent with the intended outcomes and objectives of the BEP. |  | + |  |  |
| 57. |  | The EO must ensure consistency, transparency and objectivity in the application of the mechanism for assessing the educational achievements of students |  | + |  |  |
| 58. |  | Assessors must be familiar with modern methods for assessing learning outcomes and regularly improve their skills in this area. |  | + |  |  |
| 59. |  | The management of the BEP should demonstrate the presence of a feedback system on the use of various teaching methods and the assessment of learning outcomes. |  | + |  |  |
| 60. |  | BEP leadership must demonstrate support for learner autonomy while being guided and assisted by the teacher. |  | + |  |  |
| 61. |  | The management of the BEP must demonstrate the existence of a procedure for responding to complaints from students |  | + |  |  |
| **Total by standard** | 0 | 10 | 0 | 0 |
| **Standard 6. Learners** |  |  |  |  |
| 62. |  | The EO must demonstrate the implementation of the student body formation policy and ensure the transparency of its procedures |  | + |  |  |
| 63. |  | The management of the BEP must demonstrate the implementation of special programs for the adaptation and support of students enrolled in the first year, foreign students and students on mobility |  | + |  |  |
| 64. |  | The EO must demonstrate the compliance of its actions with the Lisbon Recognition Convention, including the application of a mechanism for recognizing the results of academic mobility of students, as well as the results of formal and non-formal learning |  | + |  |  |
| 65. |  | The EO should cooperate with other educational organizations and national centers of the " European Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers" ENIC / NARIC in order to ensure comparable recognition of qualifications | + |  |  |  |
| 66. |  | The EO should provide an opportunity for external and internal mobility of students of the PEP, assist in obtaining external grants for training |  | + |  |  |
| 67. |  | EO should encourage students to self-education and development outside the main program (extracurricular activities) | + |  |  |  |
| 68. |  | An important factor is the existence of a mechanism to support gifted students. |  |  | + |  |
| 69. |  | The EO should provide students with internship places, demonstrate the procedure for facilitating the employment of graduates, maintaining communication with them | + |  |  |  |
| 70. |  | leadership must demonstrate that graduates of the program have skills that are in demand in the labor market |  | + |  |  |
| 71. |  | The management of the BEP must demonstrate the application of the mechanism for monitoring the employment and professional activities of graduates |  | + |  |  |
| 72. |  | An important factor is the existence of an active alumni association / association |  | + |  |  |
| **Total by standard** | 3 | 7 | 1 | 0 |
| **Standard 7. Faculty** |  |  |  |  |
| 73. |  | The EO demonstrates the implementation of an objective and transparent personnel policy to ensure the quality of the BEP |  | + |  |  |
| 74. |  | The management of the BEP must show the implementation of a personnel policy, including the recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff |  | + |  |  |
| 75. |  | The EO must demonstrate that the quality of the PTS meets the established qualification requirements, institutional strategy, and the objectives of the BEP | + |  |  |  |
| 76. |  | The leadership of the BEP must demonstrate the provision of adequate funding for the development of the PTS |  | + |  |  |
| 77. |  | The management of the BEP must demonstrate awareness of responsibility for its employees, including young teachers, and provide them with favorable working conditions, career opportunities and professional development |  | + |  |  |
| 78. |  | The management of the PEP should demonstrate the widespread use of information and communication technologies and software by the teaching staff in the educational process (for example, on-line training, e-portfolio, МООСs, etc. ) |  | + |  |  |
| 79. |  | The EO must demonstrate the focus of activities on the development of academic mobility, attracting the best foreign and domestic teachers |  | + |  |  |
| 80. |  | The EO should involve in teaching specialists from relevant sectors of the economy who have professional competencies that meet the requirements of the BEP | + |  |  |  |
| 81. |  | The EO must determine the contribution of the PTS of the BEP to the implementation of the strategy of institutional development, science and technology of the country |  | + |  |  |
| 82. |  | The management must demonstrate the involvement of each teacher, including the invited one, in promoting a culture of quality and academic integrity in the EO, in achieving the goals of the BEP |  | + |  |  |
| **Total by standard** | 2 | 8 | 0 | 0 |
| **Standard 8. Educational resources and student support systems** |  |  |  |  |
| 83. | 1. | The EO must guarantee the compliance of educational resources, including the material and technical base, infrastructure with the goals of the BEP |  | + |  |  |
|  |  | *The EO must demonstrate that information resources meet the needs of the BEP, including in the following areas:* |  |  |  |  |
| 84. | 2. | technological support for students and teaching staff (for example, on - line - training, modeling, databases, data analysis programs) |  | + |  |  |
| 85. | 3. | library resources, including a fund of educational, methodical and scientific literature on general education, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases |  | + |  |  |
| 86. | 4. | examination of the results of research, final works, dissertations for plagiarism |  | + |  |  |
| 87. | 5. | access to educational Internet resources |  | + |  |  |
| 88. | 6. | functioning of Wi -Fi on the territory of the EO |  | + |  |  |
| 89. | 7. | The EO must demonstrate the availability of conditions for conducting research, publishing the results of RW and development of PTS, employees and students, integrating science and education | + |  |  |  |
| 90. | 8. | The EO must show the practical implementation of measures to provide the BEP with educational equipment, software, analogues used in the relevant sectors of the economy |  | + |  |  |
| 91. | 9. | The management of the BEP should demonstrate the existence of procedures for supporting various groups of students, including information and counseling |  | + |  |  |
| 92. | 10. | The management of the BEP should show the existence of conditions for the advancement of the student along an individual educational trajectory |  | + |  |  |
| 93. | 11. | The EO must demonstrate that the infrastructure meets the security requirements |  | + |  |  |
| **Total by standard** | 1 | 10 | 0 | 0 |
| **Standard 9. Public information** |  |  |  |  |
| 94. | 1. | The EO must demonstrate the reflection on the web resource of reliable, objective, up-to-date information, reflecting all areas of activity within the framework of the BEP |  | + |  |  |
| 95. | 2. | Informing the public should include support and explanation of national development programs and the system of higher professional education |  | + |  |  |
| 96. | 3. | The EO should use a variety of ways to inform (including the media, web resources, information networks, etc.) the general public and interested parties |  | + |  |  |
|  |  | *Management should ensure that communication takes into account the following BEP indicators:* |  |  |  |  |
| 97. | 4. | the purpose and intended results of the BEP, the qualifications awarded in accordance with the NQF, QF - EHEA |  | + |  |  |
| 98. | 5. | information about the system for assessing the educational achievements of students |  | + |  |  |
| 99. | 6. | information about academic mobility programs and other forms of cooperation with partner universities, employers |  | + |  |  |
| 100. | 7. | information about the opportunities for the development of personal and professional competencies of students and employment |  | + |  |  |
| 101. | 8. | data reflecting the positioning of the BEP in the market of educational services (at the regional, national and international levels) |  | + |  |  |
| 102. | 9. | The EO must ensure the publication of audited financial statements in the context of the BEP on its own web resource |  | + |  |  |
| 103. | 10. | An important factor ispublication on open resources of reliable information about PTS, in the context of personalities |  | + |  |  |
| 104. | 11. | An important factor is the publication of information on cooperation and interaction with partners, including scientific / consulting organizations, business and social partners, and other educational organizations. |  | + |  |  |
| 105. | 12. | The EO shall ensure the publication of information and links to resources based on the results of the external evaluation. |  | + |  |  |
| **Total by standard** | 0 | 12 | 0 | 0 |
| **TOTAL** | **1 0** | **9 2** | **3** | **0** |

10 (9.52%)the parameter has the position *"strong"*

92 (87.62%)parameters have the position *"satisfactory"*

3 (2.86%) parameters have the position *"suggests improvement"*

0 (0%) of the parameter has the position *"unsatisfactory"*