



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ  
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО  
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR  
ACCREDITATION AND RATING

# REPORT

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

6B07105 – Mechanical engineering  
8D07105 - Mechanical engineering

NJSC “S. Seifullin Kazakh Agrotechnical Research University ”

between October 29 and 31, 2024

**INDEPENDENT ACCREDITATION AND RATING AGENCY**  
**External expert committee**

**Addressed to**  
**IAAR**  
**Accreditation Council**



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**Astana**

**«31» October 2024**

## Content

<b>(I) LIST OF DESIGNATIONS AND ABBREVIATIONS</b> .....	3
<b>(II) INTRODUCTION</b> .....	4
<b>(III) REPRESENTATION OF THE EDUCATIONAL ORGANIZATION</b> .....	5
<b>(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE</b> .....	7
<b>(V) DESCRIPTION OF THE VISIT OF THE EEC</b> .....	10
<b>(VI) COMPLIANCE WITH SPECIALIZED ACCREDITATION STANDARDS</b> .....	11
6.1 Standard “ <i>Educational Program Management</i> ” .....	11
6.2 Standard “ <i>Information Management and Reporting</i> ” .....	14
6.4. Standard “ <i>Continuous monitoring and periodic evaluation of educational programs</i> ” .....	19
6.6. Standard “ <i>Students</i> ” .....	23
6.7. Standard “ <i>Teaching staff</i> ” .....	25
6.8. Standard “ <i>Educational Resources and Student Support Systems</i> ” .....	27
6.9. Standard “ <i>Public Awareness</i> ” .....	29
<b>(VII) OVERVIEW OF STRENGTHS/BEST PRACTICES FOR EACH STANDARD</b> .	32
<b>(VIII) OVERVIEW OF RECOMMENDATIONS FOR QUALITY IMPROVEMENT FOR EACH STANDARD</b> .....	33
<b>Appendix 1. Evaluation table “Conclusion of the external expert commission”</b> .....	36



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

MSaHE RK – Ministry of Science and Higher Education of the Republic of Kazakhstan;  
MA RK – Ministry of Agriculture of the Republic of Kazakhstan;  
KATRU – S. Seifullin Kazakh Agrotechnical Research University;  
SOSE – state obligatory standards of education;  
IAAR – Independent Accreditation and Rating Agency;  
RW – research work;  
RWS – research work of a student;  
RSMS – research work of a master's student;  
TS – teaching staff;  
GED – general education disciplines;  
BD – basic disciplines;  
SD – specialized disciplines;  
FSC – final state control;  
AIC – agro-industrial complex;  
RI – research institute;  
EMC – educational-methodical complex;  
EMCD – educational -methodical complex of a discipline;  
PYII – curriculum;  
CED – catalog of elective disciplines;  
IEP – individual educational plan;  
MEP – modular educational program;  
TC – term control;  
FC – final control;  
CC – current control;  
AIS - automated information system;  
IT - information technologies;  
SWOT – Strengths Weakness Opportunities Threats;  
ECTS – European Credit Transfer System;  
QS – Quacquarelli Symonds  
RSE - republican state enterprise;  
UNT - unified national testing;  
CTA - comprehensive testing of applicants.

## (II) INTRODUCTION

In accordance with the order of the Independent Agency for Accreditation and Rating № 144-24-OD from 13.09.2024, the visit of the external expert commission (hereinafter - EEC) to NJSC “S. Seifullin Kazakh Agrotechnical Research University” Astana was held from October 29 to October 31, 2024, according to this order within the framework of Cluster 2 6B07105 Mechanical Engineering and EP 8D07105 Mechanical Engineering was assessed for compliance with the standards requirements of specialized accreditation of IAAR educational programs.

The External Expert Commission (EEC) report contains a compliance assessment of the activities of S. Seifullin Kazakh Agrotechnical University within the framework of specialized accreditation to the IAAR criteria, the EEC recommendations on further improvement of the parameters of educational programs and profile parameters of educational programs.

### **Composition of the EEC:**

*Chairman of EEC - Gulvira Sovetbekovna Akybaeva, Ph.D., Astana IT University (Astana); Off-line participation*

*IAAR Foreign Expert - Alexander Vorontsov, PhD, Associate Professor, Yanka Kupala State University of Grodno (Grodno, Belarus); On-line Participation*

*IAAR Foreign Expert - Nastasenco Vyacheslav, PhD, Associate Professor, Technical University of Moldova (Chisinau, Moldova); On-line participation*

*IAAR Expert - Alimgazin Altay Shurumbayevich Alimgazin, Doctor of Technical Sciences, NAO “L.N.Gumilev Eurasian National University” (Astana); Off-line Participation*

*IAAR Expert - Markovsky Vadim Pavlovich Markovsky, Candidate of Technical Sciences, Associate Professor, Toraighyrov University (Pavlodar); Off-line Participation*

*IAAR Expert - Abilmazhinov Ermek Tolegenovich, Doctor of Technical Sciences, Associate Professor, Shakarim University of Semey (Semey); Off-line participation*

*IAAR Expert - Kegenbekov Zhandos Kadyrhanovich, Candidate of Technical Sciences, Associate Professor, Kazakh-German University (Almaty); Off-line Participation*

*IAAR Expert - Sembaev Nurbolat Sakenovich, Candidate of Technical Sciences, Associate Professor, Toraighyrov University (Pavlodar); Off-line participation*

*IAAR Expert - Ibadullaeva Saltanat Zharylkasymovna, Doctor of Biological Sciences, Professor, Kyzylorda University named after Korkyt-Ata (Kyzylorda); On-line participation*

*IAAR Expert - Akpanbetov Darkhan Berikovich, PhD in Technical Sciences, Associate Professor, International Engineering and Technology University (Almaty); Off-line participation*

*IAAR Expert, employer - Akniyet Maratovna Abdikadirova, Head of Human Capital Development Department, Atameken Chamber of Entrepreneurs (Shymkent); On-line participation*

*IAAR Expert, employer - Yury Pilipenko, Chairman of the Board of Directors, International Association of Manufacturers of Goods and Services “EXPOBEST” (Almaty); On-line participation*

*IAAR expert, student - Grigory Podgorny, 3rd year student of EP 6B07112 Transportation, transport equipment and technologies, Kostanay Engineering and Economic University named after M. Dulatov (Almaty; On-line participation). M. Dulatov (Kostanay); On-line participation*

*IAAR Expert, Student - Adiet Arqabayuly Tastanov, 3rd year student of EP 6B07101 “Electric Power Engineering”, Gumarbek Daukeev Almaty University of Power Engineering and Communications (Almaty); On-line participation.*

*IAAR expert, student - Roman Evgenyevich Pozdnyakov, student of 3rd year of Transport, Transportation Engineering and Technologies, North-Kazakhstan University named after M. Kozybaev (Petropavlovsk). M. Kozybaev (Petropavlovsk); On-line participation*

*IAAR expert, student - Aruzhan Ardakovna Salmenova, 2nd year master student of EP 7M01504-Biology, Kokshetau University named after M.Kozybaev (Petropavlovsk, Kazakhstan); On-line participation. Sh. Ualikhanov (Kokshetau); On-line participation*

*IAAR Expert, Student - Asima Arturovna Layykova, 4th year student of EP 6B07102 "Automation and Management", L.N. Gumilev Eurasian National University (Astana); On-line participation*

*IAAR expert, student - Vladimir Tsimbal, 3rd year student of EP 6B07101 Mechanical Engineering, North-Kazakhstan University named after M. Kozybaev (Petropavlovsk). M. Kozybaev North Kazakhstan University (Petropavlovsk); On-line participation*

*IAAR IEC Coordinator - Bekenova Dinara Kairbekovna, IAAR Project Manager (Astana).*

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

Non-profit joint stock company "S. Seifullin Kazakh Agrotechnical Research University" (hereinafter - KATRU) is the largest higher education institution of Central and Northern Kazakhstan in the agricultural sector.

It was founded in 1957 as Akmola Agricultural Institute. For 65 years of activity KATRU has trained and graduated more than 79 thousand specialists and bachelors for agriculture and other branches of economy.

Currently, the university has nine faculties, 37 departments. More than 12 thousand students, masters, doctoral students study at 9 faculties of the university on 52 educational programs of bachelor's degree, 51 educational programs of master's degree and 33 educational programs of PhD doctoral degree. More than 33 percent of educational programs are innovative or double degree programs. In the current 2024-2025 academic year, the university has introduced post-doctoral programs.

In the international rating QS World University 2025 among 5663 world universities KATRU entered the top 1200+. This rating confirmed the increased reputation of KATRU among employers. According to the indicator of reputation among employers, the university increased by 130 positions and entered the top 800 best universities in the world by this indicator.

The position in the QS ranking of Asian universities Asia University Rankings is 351. Among the best universities in Central Asia, our university ranks 19th.

In 2023 for the first time passed the audit of the British rating agency Quacquarelli Symonds, according to the results of which the university was awarded a high overall rating - 4 stars.

The university's position in the QS World Sustainability Rankings is 1051, and KATRU ranks 535th in the Sustainable Development Goal "Environmental Impact".

For the first time in 2023, the university participated in the UI Green Metric World University Rankings and took 934th place.

According to the results of the General Rating of TOP-20 HEIs of RK 2024, conducted annually by the Independent Agency for Accreditation and Rating (IAAR), S. Seifullin Kazakh Agrotechnical Research University entered the top three best universities of RK.

S. Seifullin Kazakh Agrotechnical Research University is a leader in the field of training specialists of agro-industrial complex of the country and is an actively developing institution of higher education with existing traditions, corporate spirit and plans for further successful activities in the field of science, education and social activities based on the mission, vision of the university, as well as according to the approved by the Academic Council of the University (20.01.2024, Minutes № 8) Development Program for 2024-2029.

The mission of KATRU is to become a leader in quality and accessibility of education, a center of interdisciplinary research and scientific development.



The University is one of the universities providing social support to students. The university practices discounts on education, support for gifted students from low-income and large families, orphans, children with disabilities and special needs.

At present the contingent of students is 12847 Bachelor - 12287, Master - 369, Doctoral students - 191.

Within the framework of accredited programs, the contingent is 40 students.

The educational process in the university is accompanied by 785 full-time teachers, including - Doctor of Sciences 60, candidates of sciences 278, PhD 107, masters.245, the average age of the university is 49 years.

Within the framework of accredited EPs, the teaching staff are: 26 FACULTY MEMBERS.

Since January 1, 2023, the journal “Bulletin of Science of S. Seifullin Kazakh Agrotechnical Research University” was transformed by dividing the journal into two series:

- “Bulletin of Science of S. Seifullin Kazakh Agrotechnical Research University: Interdisciplinary”;
- “Bulletin of Science of S. Seifullin Kazakh Agrotechnical Research University: Veterinary Sciences”.

The purpose of creating a new series on veterinary sciences is the gradual inclusion of the journal in the international database Scopus.

The dissertation councils are functioning in the framework of PhD training in the university in the respective areas:

1) Dissertation Council in the direction of preparation 8D082 - Animal Husbandry: 8D08201 - Animal Science (6D080200 - Technology of animal products production);

2) Dissertation Council in the direction of training 8D075 - Standardization, Certification and Metrology (by branches): 8D07501 - Standardization and quality management of products (6D073200-Standardization and certification);

3) Dissertation Council in the direction of training D091 - “Veterinary Medicine”: 8D09101 - “Veterinary welfare of animals” (6D120100 - “Veterinary Medicine”) / 8D09102 - “Sanitary-epidemiological welfare of animal products” (6D120200 - “Veterinary Sanitation”);

4) Dissertation Council in the fields of training 8D081 - “Agronomy” and 8D083 - “Forestry” : 8D08101 Genetics and breeding of agricultural crops / 8D08102 Organic farming (6D080100 Agronomy) / 8D08103 Scientific bases of plant nutrition and fertilizer application (6D080800 Soil science and agrochemistry) / 8D08104 Phytosanitary technologies (6D081100 Plant protection and quarantine)/ 8D08301 Sustainable management of forest resources (6D080700 Forest resources and forestry);

5) Dissertation Council in the direction of training 8D073 - Architecture and Construction: 8D07301 - “Architecture”, 8D07302 - “Geodesy”, 8D07303 - “Cadastre” and 8D07304 - “Land Management” ;

6) Dissertation Council in the direction of training 8D061-“Information and Communication Technologies”: 8D06101-Big Data Analytics; 8D06103-Modeling and Optimization of Business Processes; 8D06102-System Engineering (6D070300-Information Systems);

7) Dissertation Council in the direction of training 8D072-Production and Processing Industries: 8D07201-Food Technology, (6D072700-Technology of Food Products, 6D072800-Technology of Processing Industries).

The University creates conditions for active development of innovation activity. One of the tasks of the University is to assist scientists in the implementation of innovative projects in the following scientific areas: crop production, agriculture, agrochemistry and soil science, plant protection; microbiology, veterinary medicine and animal husbandry; biotechnology of plants and animals; land management, mechanization and electrification of agriculture. Currently, the university database contains more than 40 projects at different stages of research.

The University has established research institutes, platforms, and centers to improve the efficiency of scientific research.

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

In accordance with the order of the Independent Accreditation and Rating Agency No. 34-14-OD dated December 02, 2019, from November 26 to 28, 2019, the External Expert Commission assessed the compliance of the educational program 6B07105 “Mechanical Engineering” with the standards of specialized accreditation of the IAAR.

In accordance with the order of the Independent Accreditation and Rating Agency No. 34-14-OD dated December 02, 2019, from November 12 to 14, 2019, the External Expert Commission assessed the compliance of the educational program 8D07105 “Mechanical Engineering” with the standards of specialized accreditation of the IAAR.

As a result of the external audit, by the Decision of the Accreditation Committee, the said programs were accredited for a period of 5 (five) years until December 25, 2024.

Post-accreditation monitoring of the activity of NJSC “S. Seifullin Kazakh Agrotechnical Research University” was conducted within the framework of the action plan for the implementation of the recommendations of the EEC and was carried out in accordance with the requirements of the regulations on post-accreditation monitoring in accordance with the order of the IAAR from 21.10.2021 № 102-20-OD.

The first post-accreditation monitoring for EP 6B07105 Mechanical Engineering and EP 8D07105 Mechanical Engineering was conducted on November 08, 2021.

The second post-accreditation monitoring for EP 6B07105 Mechanical Engineering and EP 8D07105 Mechanical Engineering was conducted in December 2023.

Based on the results of specialized accreditation, the external expert commission formed a few recommendations to improve the university's activities and educational programs. The University developed an action plan approved by the Academic Council to implement the recommendations. The implementation results of the planned activities were reflected in the report on the implementation of the IAAR EEC recommendations NJSC “S. Seifullin KATRU”.

According to the assessment of the IAAR external expert commission on accreditation:

**According to the standard, “Educational Program Management.”**

*Strengthen the work on the implementation of academic mobility both internal and external for the teaching staff, leading classes on this EP, as well as on quality assurance in the implementation of joint/bilateral education.*

In order to fulfill this recommendation, the professor of the department Sherov K.T. in 2021-2022 and 2022-2023 academic years conducted lecture classes for students and master students of Navoi State Mining Institute (Navoi, Republic of Uzbekistan) on the basis of the agreement on cooperation on external mobility of faculty members.

This recommendation has been fully implemented.

*Strengthening the work on passing external training on education management programs by the EP management.*

In 2020 the head of the department Usserbaev M.T. and in 2024 the associate professor Kokaeva G.A. and the dean of the technical faculty Akhmetov E.S. took courses on “Management in Education” in the amount of 72 hours.

This recommendation has been fully implemented.

**Under the standard “Information Management and Reporting”**

*Systematically monitor the satisfaction with the quality of educational programs of students and teaching staff.*

The Analysis of the questionnaire “Assessment of social well-being of students” conducted at the end of the 2022-2023 academic year (discussion, minutes № 13 of 31.05.2023) to determine the degree of customer satisfaction with the educational process (content,



organization and quality of the educational process). The survey was attended by students of all faculties of 1-5 courses of S. Seifullin KATRU, the total number of respondents - 1913. The survey is conducted through the Platonus system, both in Russian and Kazakh languages.

This recommendation has been fully implemented.

*Expand the content of information bases, increase the number of applied information and communication technologies and software tools, in particular, expand the personal pages of faculty members, supervisors of doctoral students.*

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

The recommendation is fully implemented.

**Per the standard, “Development and Approval of Educational Programs.”**

*Continue work on development of joint EPs of the cluster with leading Kazakhstan and foreign educational organizations.*

Within the framework of the work on the development of joint EPs with foreign HEIs on educational programs 6B07105 “Mechanical Engineering”, 8D07105 “Mechanical Engineering”, agreements were concluded with Krakow University (Poland), Saratov State Technical University (Russia), Navoi State Mining and Technological University (Uzbekistan).

This recommendation has not been fully implemented.

*Organize work on training doctoral students in professional certification.*

In order to implement the recommendation, a list of professions (areas of professional activity, types of labor activity) for the development of professional standards is currently being compiled and agreed upon within the framework of the project “Development of labor skills and stimulation of jobs” jointly with NCE “Atameken”.

This recommendation has not been fully implemented.

**On the Student-Centered Learning, Teaching, and Assessment of Learning standard**

*To strengthen the work of teaching staff in the direction of research development and development of their own methods of teaching academic disciplines on this EP.*

Teachers Menlen D.Zh. and Kossatbekova D.Sh. apply modern teaching methods, such as Kahoot, case studies, group assignments, use of information and communication technologies at training sessions and in the framework of scientific works focused on the needs of employers.

Teachers Mazhitova L.A. and Erzhanova A.E. apply modern programming languages for technological equipment in the disciplines “Fundamentals of Robotics”, “Manipulators and Robots”.

This recommendation has been fully implemented.

**According to the standard “Continuous monitoring and periodic evaluation of educational programs”**

*The management of the RP should develop a mechanism for informing all stakeholders of any planned or undertaken actions with respect to the RP.*

The University informs stakeholders about all changes in educational programs. Information about the changes of EPs can be obtained on the website of the Unified Platform of Higher Education in the section “Educational programs of higher and postgraduate education” at the link [https://epvo.kz/#/register/education\\_program](https://epvo.kz/#/register/education_program). The site provides information about the EP: the name of educational programs, type of EPOHPE (developer), status, date of registration in the Register. The EER is available to all participants of the educational process 24/7.

The recommendation is fully implemented.

**According to the standard “Learners”**

Strengthen the work on the implementation of internal and external mobility of doctoral students (**recommendation implemented 100%**).

To implement this recommendation, doctoral students of the department annually go to foreign universities, leading international educational and research centers.

- Doctoral student of the department Uteulov K.T. underwent internship in NJSC “Scientific and Production Center of Agroengineering” (2021);

- doctoral student of the department Kuanov I.S. underwent internship in Y.A.Gagarin Saratov State Technical University (2023);

- doctoral student of the department Myrzakhmet B. was trained at AGH University of Science and Technology in Krakow (Poland) (2023);

- Tattimbek G., a doctoral student of the department, was trained at Navoi State Mining and Technological University in Navoi (Uzbekistan) (2024).

This recommendation has been fully implemented.

**According to the standard “Teaching staff”**

*To increase the level of competence of teaching staff, application of innovative methods and forms of teaching in accordance with the objectives of the EP, taking into account student-centered learning.*

To improve the competence level of faculty members of the department annually undergo industrial internships at enterprises equipped with modern equipment: in 2022 19 faculty members were trained, in 2023 - 7 faculty members and in 2024 - 17 faculty members. Such enterprises as LLP Mechanical Plant “RAPID”, LLP “Zapchast ZhD”, Technical Enterprise LLP “Sintez”, LLP “Step Design Bureau”, etc.

The faculty actively uses interactive methods, such as lectures-demonstrations with the use of multimedia, videos, interactive methods of knowledge testing. For example, Professor, Doctor of Technical Sciences D.K. Abulkhairov uses case-studies, brainstorming method when conducting classes for students.

According to the program on wide introduction and application of innovative technologies in the educational process for 2020-2024 years, the teachers of the department of TMO hold classes with the application of innovative technologies.

This recommendation has been fully implemented.

*Strengthen the work on the development of academic mobility in terms of attracting the best foreign and domestic teachers to conduct training sessions within the framework of the EPs.*

To implement this recommendation, the professor of the department Sherov K.T. in the period from March 6 to March 23, 2022 and from April 22 to May 8, 2023 conducted lecture classes for students and master students of Navoi State Mining Institute (Navoi, Republic of Uzbekistan).

Foreign scientists Professor AGH of Scientific and Technical University of Krakow (Poland) Michael Bembenek, Sumy State University Artiukhov A. E., chief specialist of the firm “CLAAS-cademy” from Germany Butov S. were invited to the Department of TME to give lectures to students, doctoral students and faculty.

The recommendation has been fully implemented.

**According to the standard “Educational Resources and Student Support Systems”**

*To increase the efficiency of WI-FI functioning on the territory of the educational organization.*

To improve the effectiveness of the Internet network at the university, a fiber optic network is being completed in all academic buildings and dormitories.

The recommendation has been fully implemented.

**According to the standard “Public Awareness”**

*To inform the public about cooperation and interaction with partners within the framework of the EP using the opportunities of social networks.*

To inform the public about cooperation and interaction with partners is conducted in social networks (V Kontakte, Facebook, Instagram). Each group creates its own pages, as well as

conferences in messenger WhatsApp to keep abreast of all events in the life of the group and the university as a whole. Conducting events are covered on the Facebook page of the Technical Faculty, for example, holding problem lectures by the director of LLP “Zapchast-ZhD” Niyazbekov A.A., open classes by the teacher Mazhitova L.A., etc. <https://www.facebook.com/groups/590163404486733/>,

The recommendation has been fully implemented.

**According to the standard “Standards in the context of individual specialties”**

*Strengthen the work on attracting production specialists who have a long experience of working as a full-time employee at enterprises in the area of specialization of EP (the recommendation is implemented 100%).*

To fulfill this recommendation, the university attracts part-time teachers engaged in the main place of work practical professional activities. At the moment, from among employers for the students of EP lectures the following specialists: Minbaev J.S. and Mazbulov J.J. - design engineers, LLP “Kazakhstan Paramount Engineering”, Sherov A.K. - Chief Designer, LLP “Design Bureau “STEP”.

10.10.2022 - lectures on “Installation, testing and operation of technological machines” by Director of Business Development - member of the Board of LLP “Ghalam” Aibol Mirzhanovich Nsanov;

10.10.2023 - meeting with the leading engineer-designer of “Kazakhstan Paramount Engineering” LLP A.T. Nukenov;

11.03.2023 - lecture on “Metalworking machines and welding equipment” by the leading designer of LLP “Kazakhstan Aviation Industry” Toleu Dauren;

15.10.2023 - lecture on “Cutting theory, cutting tools and equipment” by the director of LLP “Spektr-TS” Syzdykov Zhanat Anuarbekovich;

01.04.2024 - holding a problem lecture on “Application in production of modern metalworking machines with CNC” by the director of LLP “Zapchast ZhD” Niyazbekov A.A..

This recommendation has been fully implemented.

All recommendations and suggestions to the university and the management of the EP, given in the framework of the latest procedures of external quality assurance, by the accreditation body IAAR are realized or are in the process of realization.

**(V) DESCRIPTION OF THE VISIT OF THE EEC**

The work of the EEC was carried out based on the approved Program of the visit of the expert commission for specialized accreditation of educational programs of Kazakh Agrotechnical Research University named after S. Seifullin in the period from 29 to 31 October 2024.

In accordance with the requirements of the standards, the Visit Program covered meetings with the Chairman of the Board-Rector of NJSC “KATRU”, vice-rectors, heads of structural units, graduates and employers, interviewing and surveying of teaching staff and students. The information within the framework of different focus groups is presented in Table 1.

During visual inspection of the university and accredited EPs the members of the EEC got acquainted with the state of the university material and technical base, visited the library, departments, structural subdivisions, laboratories, specialized rooms, computer classes, training laboratories, practice bases.

Meetings with focus groups, as well as the analysis of documents allowed EEC members to conduct an independent assessment of compliance with the data presented in the self-assessment reports of the university's OPs with the criteria of specialized accreditation standards.

Table 1. Information on staff and trainees who participated in meetings with the IAAR EEC:

Category of participants	Number
Chairman of the Board-Rector	1
Vice-Rectors, Head of the Rector's Office	6
Heads of structural divisions	20
Deans	4
Heads of departments and heads of OPs	6
Teachers	46
Students, masters, doctoral students	61
Graduates	36
Employers	34
<b>Bcero</b>	<b>214</b>

Visual inspection was conducted to get a general idea of the organization of educational, scientific and methodological processes, material and technical base, to determine its compliance with the standards, as well as for contact with students and staff at their workplaces. The experts inspected the departments, faculties, structural subdivisions, shops for processing meat, milk, bakery products, library, medical center and others.

In accordance with the accreditation procedure, 56 teachers, 66 students were surveyed.

To confirm the information presented in the Self-Assessment Report, external experts requested and analyzed the working documentation of the university. At the same time, the experts studied the Internet positioning of the university through the official website of the university (<https://kazatu.edu.kz/>).

As part of the planned program, the recommendations for the improvement of the University's activities, developed by the EEC based on the results of the examination, were presented at the meeting with the management on 31.10.2024.

During the EEC visit the experts visited the practice bases of the accredited programs: LLP "United Consolidation Center" and others.

Within the framework of the program visits to classes were planned: Within the framework of EP 6B07105 "Mechanical Engineering" discipline "CNC systems (Fundamentals of mechatronics)", 4th year, Dr. PhD, Senior Lecturer Sagitov A.A.

The activities planned within the framework of the IAAR EEC visit contributed to the detailed familiarization of experts with the educational infrastructure of the university, material and technical resources, faculty and staff, students, master's students, doctoral students, representatives of employers, graduates. These meetings allowed the EEC members to conduct an independent assessment of compliance of the data stated in the self-assessment of the university's EP with the criteria of specialized accreditation standards.

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

### **6.1 Standard "Educational Program Management"**

- *The HEI should demonstrate the development of the purpose and strategy of the EP development based on the analysis of external and internal factors with broad involvement of a variety of stakeholders.*
- *Quality assurance policy should reflect the link between research, teaching and learning.*
- *The HEI demonstrates the development of a quality assurance culture.*
- *The commitment to quality assurance should apply to any activities performed by contractors and partners (outsourcing), including in the implementation of joint/dual degree education and academic mobility.*
- *The EP management ensures transparency of the EP development plan elaboration based on the analysis of its functioning, real positioning of the HEI and orientation of its activities to meet the needs of the state, employers, stakeholders and learners.*
- *The EP management demonstrates the functioning of mechanisms for the formation and regular revision of the EP development plan and monitoring of its implementation, assessment of the achievement of learning objectives, compliance with the needs of students, employers and society, decision-making 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 should demonstrate the individuality and uniqueness of the EP development plan, its consistency with the national development priorities and the development strategy of the educational organization.*

- *The HEI should demonstrate a clear definition of those responsible for business processes within the EP, distribution of staff job responsibilities, delineation of functions of collegial bodies.*

- *The management of the EP ensures coordination of activities of all people involved in the development and management of the EP and its continuous implementation, as well as involves all stakeholders in this process.*

*The management of the TS should ensure that the management system is transparent, that the internal quality assurance system is functioning, including its design, management and monitoring, and that appropriate decisions are taken.*

- *The management of the TS should carry out risk management.*

*The EP management should ensure the participation of representatives of stakeholders (employers, teaching staff, students) in the collegial management bodies of the educational program, as well as their representativeness when making decisions on the management of the educational program.*

- *The university should demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals.*

- *Management of the EP should demonstrate its openness and accessibility for students, faculty, employers and other stakeholders.*

- *The management of the EP confirms the completion of training in educational management programs.*

*The EP management shall strive to ensure that the progress made since the last external quality assurance procedure is taken into account in preparation for the next procedure.*

### ***Evidentiary part***

At S. Seifullin KATRU the management of educational programs is carried out within the framework of the internal quality assurance system, which includes the Policy in the field of quality assurance and processes description in a series of internal documents of the University, developed within the framework of the certified quality management system <https://kazatu.edu.kz/pages/universitet/dokumenty/sistema-menedzmenta-kacestva>. Each faculty has Academic Quality Councils, including faculty and staff, representatives of employers and students.

As noted in the self-assessment report, the main goal of the Quality Policy of KATRU is to prepare graduates capable of ensuring the functioning and development of various fields of activity at the level of advanced achievements, who are worthy citizens of the Republic of Kazakhstan.

The Development Program indicates that the university activity is aimed at achieving international recognition of the university in the field of providing educational services, its research reputation, to improve the quality of training of competitive specialists and to ensure the economic sustainability of the university.

The vision of the university is consistent transformation into a modern research university of international level in the field of agro-industrial complex with an emphasis on a close link between research, teaching and learning.

The assessors confirm that the university's strategic development plan, mission, quality policy and goals are published, available and posted on the university's website <http://kazatu.kz>.

Transparency of the management system of educational programs is ensured by: availability of information on all areas of the university's activities for stakeholders on the university's website; functioning of the feedback system; participation of teaching staff and students in the collegial bodies of the university; formation of a database of normative documentation and its availability to teaching staff and students; implementation of information systems that support the implementation of educational programs; functioning of the quality management system, which ensures the transparency of educational programs. The management of the educational program is available for interaction with students, teaching staff, employers by means of personal reception, e-mail, etc.

During the examination the real institutional practice of the university was studied, but at the same time a wider - national and global context was taken into account, i.e. features of



national systems of education quality assurance and international trends and directions of cooperation in the field of education quality, and attention was paid to the following aspects of institutional management of the educational program.

At the meetings with students, faculty, employers, members of the EEC were convinced of the openness and accessibility of the EP management in solving various issues related to the development and implementation of the EP.

The EP development plan is developed based on the Development Strategy of NJSC “S. Seifullin KATRU” till 2027 and the Strategic plan of the faculty development for 3 academic years. The grounds for the development, improvement of the EP are Recommendations of the members of the Academic Council; Standards of the rating of employers of NCE “Atameken”; Atlas of new professions; results of research of the market, competitors, employers and students. Based on annual analysis of the market of educational programs the revision and improvement of the EP “Mechanical Engineering” is carried out.

Certain information about the management system is presented on the university website, disseminated through other means, but it is not possible to assess the system as transparent. In most cases, the information is available only to internal consumers.

Training of the management on educational management programs is carried out at a sufficient level.

The necessary information, human, financial and material-technical resources, as well as regulatory and legal documentation are available for the management of the EP, ensuring the implementation of educational programs.

### ***Analytical part***

The analysis of fundamental documents showed that S. Seifullin KATRU demonstrates the management of educational programs, in accordance with the current legislation of the Republic of Kazakhstan in the field of education and science, the focus of mission, strategy and vision to meet the needs of the state, society, sectors of the real economy, potential stakeholders.

The EP development plan was developed in accordance with the strategic priority and development goals of S. Seifullin KATRU. The main task of the University is to carry out educational activities and scientific research that meet the development strategy of the Republic of Kazakhstan.

EEC confirms that the university has a published quality assurance policy, which reflects the link between research, teaching and learning.

During visual inspection and analysis of documents the EEC verified that the responsible for business processes within the framework of which the implementation of the EP is regulated, the staff job responsibilities are distributed, and the functions of collegial bodies are delimited. The university demonstrates the development of quality assurance culture in the context of EPs.

To develop strategic documents, the staff assesses the university in meeting the needs of stakeholders, as well as prospective analysis of the development of the educational services market. The individuality of the EP development plan is partially traced. At the same time, the formulation of the uniqueness and individuality of the EP development plan and its consistency with the national development priorities and KATRU development strategy is not sufficiently detailed.

The EP management provides participation of employers' representatives in the processes of management of the educational program and its development, which is revealed because of interviews with teachers and employers. However, it is supposed to strengthen the activity of students in the framework of their participation in the collegial management bodies of the EP.

EEC notes the need to analyze the functions of the University employees involved in the management of educational programs to clarify their responsibilities in connection with the changes introduced in the regulatory legal acts in the field of education and new approaches to the definition of qualification characteristics of posts of teaching staff.

The members of the EEC also note the insufficient cooperation of the university with partners in the implementation of double degree education and academic mobility of teaching staff.

The results of the questionnaire showed that the content of the educational program meets your scientific and professional interests and needs (very good - 57.10% (31 people), good - 42.9% (24 people), Questioning of the teaching staff, conducted during the visit of the EEC IAAR, showed that the involvement of the teaching staff in the process of making managerial and strategic decisions - very good and good - 19.6% (11 people) and 69.6% (39 people) respectively, answered “Relatively bad” - 10.7% (6 people).

***Strengths/best practices:***

- Not identified

***Recommendations of EEC for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

- To specify and update the development plan of accredited EPs in order to determine their uniqueness and taking into account the priority directions of scientific research development for mechanical engineering industry in accordance with the University Development Strategy and with the changes of regulatory legal acts in the system of higher education within the period till September 01, 2025. EEC conclusions on criteria: (strong/satisfactory/needs improvement/unsatisfactory) for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):

According to the standard “**Management of educational program**” 17 criteria are disclosed, of which: 15 have a satisfactory position, 2 - suggests improvement.

***6.2 Standard “Information Management and Reporting”***

- *The HEI should ensure the functioning of the system of collection, analysis and management of information based on modern information and communication technologies and software tools.*
- *EP management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system.*
- *The EP management demonstrates the availability of the reporting system reflecting the activities of all structural units and departments within the framework of the EP, including the assessment of their performance.*
- *The University is obliged to determine the frequency, forms and methods of evaluation of the EP management, activities of collegial bodies and structural units, and top management.*
- *The University is obliged to demonstrate the mechanism of information protection, including the identification of responsible persons for the reliability and timeliness of information analysis and data submission.*
- *The University demonstrates the involvement of students, employees and faculty in the processes of collecting and analyzing information, as well as decision-making on their basis.*
- *The management of the EP should demonstrate the presence of mechanisms of communication with students, employees and other stakeholders, including conflict resolution.*
- *The university should provide measurements of the degree of satisfaction of the needs of faculty, staff and students in the framework of the EP and demonstrate evidence of eliminating the identified shortcomings.*
- *The HEI should assess the effectiveness and efficiency of activities, including in the context of the EP. The information collected and analyzed by the HEI within the framework of the EP should consider:*
  - *key performance indicators;*
  - *the dynamics of the contingent of students in the context of forms and types;*
  - *level of academic performance, students' achievements 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;*
  - *employment and career development of graduates.*
  - *Students, staff and teaching staff should document their consent to the processing of personal data.*
  - *EP management should facilitate the provision of all necessary information in the relevant fields of sciences.*

### ***Evidentiary part***

In NJSC “S. Seifullin KATRU” various methods of information collection are used: collection of information from structural units according to the presented sample, memos, data from the automated information system “Higher Education Institution” (<http://platonus.kazatu.kz/>), questionnaires, surveys, etc. The students and employees of KATRU are involved in the collection and analysis of information, planning further actions. Students and employees of KATRU are involved in collecting and analyzing information, planning further actions.

Supporting the EP with information technologies (including the functioning of the system of collection, analysis and management of information based on the use of modern information and communication technologies and software tools) is carried out by the Council for informatization of KATRU. This Council is a permanent coordinating and advisory and scientific-consultative body of the Academic Council of the university in the field of solving problems on the use and development of information technologies.

The scope of information collected, about educational programs, about expected learning outcomes is posted on the university website (<http://kazatu.kz>). The website contains information about the university and specifics of educational programs. There is a rector's blog, where the faculty and students can address complaints, and the electronic library can also be found. Information management processes are documented and are an integral part of the university's information structure. Policies, procedures, regulations on information systems are supervised by the information and computer center.

The main information flows are represented by representatives of the rectorate, departments, divisions, faculties and chairs. Analysis of information in the department is carried out through departmental meetings, meetings, and seminars. The information received is brought to the faculty and staff, heard at the meetings and planning meetings of the department, and then discussion and decision making with the appointment of responsible executors and deadlines for the implementation of the information received, control over the implementation is assigned to the head of the department.

At the HEI, information security includes any activity aimed at protecting information and/or supporting infrastructure. Information security policy covers all automated and telecommunication systems, the owner and user of which is KATRU. An integral part of the organization of information protection is continuous monitoring of the effectiveness of measures taken, defining for KATRU employees a list of inadmissible actions, possible consequences and responsibility.

KATRU conducts systematic monitoring, evaluation of the “effectiveness” and “efficiency” of the implementation of the strategy for the development of educational programs with the participation of students, employees and other stakeholders based on systematic collection, analysis and management of information.

The University has implemented information management processes using the educational portal (<http://portal.kazatu.kz/>) AIS “Travel”, AIS “Electronic Journal of the supervisor”, AIS “Personnel”, AIS “Timesheet”, AIS “Risk Management”, “PLATONUS” system. In the educational portal in free access documents of S. Seifullin KATRU and personalized access to information on the management, planning and implementation of the EP (curriculum, teaching materials, class schedules, results of assessment of students' knowledge, etc.). Operational management of information exchange between departments is carried out through the electronic document management system.

The HEI determines the procedure and ensures the protection of information. Involvement of students, employees and teaching staff in the processes of collecting and analyzing information covers only satisfaction analysis based on surveys.

Much attention is paid to monitoring the employment and career of graduates, the work is organized with the use of modern communication technologies.



According to the legislation of the Republic of Kazakhstan, KATRU employees have given their consent to the processing of personal data, which was confirmed during conversations with faculty members and analysis of documents. Considerable attention is paid to providing staff and faculty with necessary information in relevant fields of science, information resources and international databases are widely used.

### ***Analytical part***

Analyzing the EP on the content of the standard “Information Management and Reporting” on accredited areas, the Commission notes that the university has a system of information management and reporting on student enrollment, academic performance, contingent movement, staffing, academic mobility of faculty and students, which is presented in regular reports at meetings of departments, rectorate and Academic Council of the university. Students and employers are regularly surveyed and according to the results of their questionnaires/interviews appropriate measures are taken to eliminate shortcomings.

EEC notes that the internal regulatory documentation developed at the university (standards of the organization, documented procedures, methodological instructions) determines the structure and volume of collected information, its reliability and timeliness, allows to form analytical reports and make decisions based on facts.

Also, the EEC notes that the University has not defined the regulations for updating the information on the University website. It is necessary to place on the website information on accredited EP 6B07105-Mechanical Engineering, 8D07105-Mechanical Engineering (EP development plan, graduate model). The educational portal does not sufficiently provide information for students of the third level of education (doctoral studies), in accordance with the specifics of their training.

The questionnaire about the students, conducted at the entrance of the visit of the EEC IAAR, showed that the satisfaction:

- with the accessibility and quality of Internet resources in general 80.3% (53 people) are satisfied;
- the level of accessibility of the dean's office (faculty, department) is generally satisfied 87,9% (58 people);
- the content and information content of the website of educational organizations in general and faculties (school) in particular - 86.4% (57 people).

### ***Strengths/best practices:***

- Not identified

### ***Recommendations for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

- To provide the participants of the educational process with necessary information, to improve the informativeness of the sites of structural units (in particular, the faculty and special departments), presented on the university website by levels of education, implemented EPs, to expand the personal pages of teaching staff, heads of EPs until March 01, 2025.

### ***EEC conclusions on the criteria for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

There are 17 criteria disclosed for the “***Information Management and Reporting***” standard: all 17 have a satisfactory position.

### ***6.3 Standard “Development and Approval of Educational Program”***

- *The University is obliged to demonstrate the existence of a documented procedure of the EP development and its approval at the institutional level.*
- *The University is obliged to demonstrate the compliance of the developed EP with the established*

objectives and planned learning outcomes.

- The EP management should determine the influence of disciplines and professional practices on the formation of learning outcomes.
- The university can demonstrate the availability of the EP graduate model describing learning outcomes and personal qualities.
- The qualification awarded at the end of the EP should be clearly defined, explained and correspond to a certain level of the NSC, QF-EHEA.
- Management of the EP should demonstrate the modular structure of the program based on the European Credit Transfer and Accumulation System (ECTS), ensure that the EP, its modules (in terms of content and structure) correspond to the set objectives with orientation on the achievement of planned learning outcomes.
- EP management must ensure that the content of academic disciplines and learning outcomes are consistent with each other and with the level of study (bachelor's, master's, doctoral studies).
- The EP management should demonstrate the implementation of external reviews of the EP.
- The EP management should provide evidence of the participation of students, faculty and other stakeholders in the development of the EP, ensuring its quality.
- The EP management should demonstrate the positioning of the EP in the educational market, (regional/national/international), its uniqueness.
- An important factor is the possibility to prepare students for professional certification.
- An important factor is the availability of double-diploma EP and/or joint EPs with foreign universities.

### ***The evidentiary part***

The development and approval of educational programs at the university is carried out in accordance with the provisions of regulatory legal acts in the field of higher and postgraduate education, as well as documentation developed by the university to ensure the implementation of the Strategic Development Plan of S. Seifullin KATRU for 2023-2028.

The goals of educational programs are formulated considering the requirements and requests of potential consumers, based on the assessment of the demand for educational programs, which is determined by the interests of potential employers, the potential of the university, the requirements of the state and society as a whole.

The university has a mechanism for evaluating the educational program in the process of its formation. The internal evaluation of educational programs is carried out at the level of the Faculty Council and the Academic Council of the university and is approved by the Chairman of the Board (Rector) of KATRU.

The assessment of the quality of educational programs is based on the analysis of curricula, catalog of elective subjects, schedules, individual plans of students, internal regulatory documents regulating the implementation of educational programs.

Procedures have also been developed for designing ops, which determine, among other things, ensuring that the developed ops meet the established goals, including the expected learning outcomes. Accredited educational programs are provided by the availability of developed graduate models, the content of which should contribute to the formation of students' professional competence.

The curricula provide for the modular study of disciplines in accordance with the logical sequence of the study of disciplines and contain a complete list of academic subjects in both compulsory and elective components. The labor intensity of cycle disciplines in Kazakhstani and ECTS credits, as well as in hours, all types of professional practice, and intermediate certification are indicated. In all forms of curricula, a single discipline coding system is used, which provides for assigning each discipline of the curriculum a corresponding code in alphanumeric and numeric symbols.

The Faculty Council ensures the participation of teaching staff and other stakeholders in the development of educational programs and ensuring their quality. The educational standards are reviewed and improved annually, undergo an external and internal examination procedure, and ensure the quality of educational services.

During the visit to the department, accredited EPs, the members of the EEC found that the implemented EPs were evaluated by external experts. To conduct an external examination for the reporting period, the educational programs 6B07105-Mechanical Engineering, 8D07105-



Mechanical Engineering attracted employers of the Union of Machine Builders of Kazakhstan, LLP “ABI-Astana”, “Akmola Elevator Plant”, LLP “SINTEZ”, “Akkol branch of Agromashholding KZ”.

The University demonstrates the desire to implement joint educational programs, but at this stage this work has not acquired the necessary scale, corresponding to the level of the University's activity.

### ***Analytical part***

Analyzing the standard "Development and approval of educational programs", the members of the Higher School of Economics concluded that the review and approval of educational programs take place at departments, are recommended by the decision of the Educational and Methodological Council of the University and approved at a meeting of the Academic Council of the University.

External experts are the heads of various companies with extensive professional experience and who have made a significant contribution to the development of valuation activities and logistics services in the republic.

The university pays the necessary attention to the design of the educational process and has developed and approved several documented procedures that have an effective impact on the quality of the educational process. In particular, the procedure for forming a graduate model has been developed and implemented at a good level.

The current procedures for designing and implementing educational programs provide solutions to several tasks, including ensuring the influence of disciplines and professional practices on the formation of learning outcomes.

EEC members note that educational programs 6B07105-Mechanical Engineering, 8D07105-Mechanical Engineering are provided with curriculum, syllabuses, EMCD, are compiled in accordance with normative documents and meet the specifics of accredited programs. The set of CED disciplines, the choice of enterprises for industrial practice contributes to the formation of professional competencies of students.

A graduate model has been developed. The graduate model is reflected in the purpose of the EP, the competencies formed, and the qualification characteristics of graduates of all training levels. At the same time, in connection with the formation of the national register of educational institutions, it is necessary to update the learning outcomes by levels of study.

The university does not carry out work on professional certification programs for students. Although the management of the EP has the potential of enterprises to prepare students for professional certification.

Despite the fact that the university has concluded cooperation agreements with foreign educational organizations and research centers, there is no joint educational program actually implemented with foreign universities.

A survey of students conducted during the EEC IAAR visit showed that:

- the speed of response to feedback from teachers regarding the educational process is "fully satisfied" – 89.4% (59 people) and partially satisfied -7.6% (5 people).
- satisfied with the quality of teaching "completely" – 89.4% (59 people), "partially satisfied" – 7.6% (5 people) "partially dissatisfied" – 1.5% (2 people).

### ***Strengths/Best practices:***

Not identified

### ***Recommendations for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

- To develop and implement courses/modules in the structure of the educational program aimed at preparing students for professional certification by December 01, 2025;
- To develop an action plan for the creation of a joint/educational programs with the identification of potential partners among national and foreign universities, coordination of the

curriculum structure, preparation of the EP elements for approval and the start of admission in 2025.

***HEC conclusions on the criteria for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

According to the standard “Development and approval of educational programs” 12 criteria are disclosed, of which: 10 have a satisfactory position, 2 - suggests improvement.

#### 6.4. Standard “Continuous monitoring and periodic evaluation of educational programs”

- *The university should ensure the revision of the content and structure of the educational program, considering changes in the labor market, the requirements of employers and the social demand of society.*

- *The university must demonstrate the existence of a documented procedure for monitoring and periodic evaluation of the EP in order to achieve the goal of the EP. The results of these procedures are aimed at continuous improvement of the EP.*

*The monitoring and periodic evaluation of the EP should consider:*

- *the content of the programs in the context of the latest achievements of science and technology in a particular discipline;*

- *Changing needs of society and professional environment;*

- *workload, academic performance and graduation of students;*

- *Effectiveness of student assessment procedures;*

- *Students' needs and satisfaction levels;*

- *compliance of the educational environment and the activities of support services with the objectives of the EP.*

- *All stakeholders should be informed of any planned or undertaken actions regarding the EP. All changes made to the EP must be published.*

- *Support services should identify the needs of different groups of students and the degree of their satisfaction with the organization of training, teaching, assessment, and mastering the EP in general.*

#### ***The evidentiary part***

S. Seifullin KATRU constantly monitors the quality of education to identify the degree and completeness of the implementation of the educational program, the compliance of the objectives of the university's activities with the strategic requirements imposed on the specialist by the labor market, and the level of teachers' ability to train a competitive specialist.

When monitoring and reviewing the EP, the opinion of the faculty of the department and the faculty as a whole is considered. At the meetings of the department and the Academic Council of the Faculty, the results of monitoring the EP, the need for its revision and amendments to the EP are discussed.

The effectiveness of the EP's goals is systematically evaluated based on feedback from employers – leading enterprises in the region and is reviewed in accordance with the latest achievements in world science and technology, as well as the development of the economy of the Republic of Kazakhstan. The objectives of the educational program are systematically reviewed in accordance with the regulatory documents of the QMS at the university.

When reviewing the EP, the workload and assessment of students are taken into account to provide a wide range of competencies in the field of Engineering, manufacturing and construction industries.

To ensure the quality of graduates at all levels of education, the university provides a system for checking graduation papers for borrowing (plagiarism).

Familiarization of all interested persons (graduates, students of the faculty of the department) is carried out at meetings of the department, during seminars at the technical faculty, when signing educational programs. During the meetings, employers confirm their participation in the development and subsequent analysis of the EP.

The results of monitoring the implementation quality of the EP are drawn up in the form of

analytical reports and are reviewed at meetings of the Academic Council of the university. The organization of monitoring procedures as part of the assessment of the EP is planned. The results of quality monitoring are considered in the context of taking preventive and corrective measures.

The university traces the participation of students, employers and other stakeholders in the revision of the EP based on satisfaction surveys, the involvement of collegial bodies and other forms and types of activities.

Examples of informing about any planned or undertaken actions in relation to the EP are mainly reduced to the use of e-mail by the teaching staff. Broad information of all interested parties is not provided, and publication of changes to the EP is not provided either.

In its activities, the university strives to take into account changes in the labor market, the requirements of employers and the social demand of society, including for the revision of the DEFINITION.

***The analytical part***

The analysis of the procedures for monitoring and periodic evaluation of educational programs is carried out on the basis of: an analysis of curricula, a catalog of elective subjects, individual program plans for students, internal regulatory documents regulating the implementation of educational programs, their monitoring and evaluation; minutes of collegial bodies and meetings of departments; interviews and questionnaires of students, teaching staff and stakeholders; the results of observations of the activities of educational services support services.

The CENTURY notes that the university provides a review of the content and structure of educational programs with the participation of employers. This was confirmed during a visit to the graduate departments and an analysis of the submitted documents.

During regular monitoring and periodic evaluation of the EP, the management of the EP considers changes in the labor market, the requirements of employers and the social demand of society, which is the strength of the EP.

At the same time, the Commission notes that this standard does not fully reflect the issues of informing stakeholders about any planned or undertaken actions in relation to EP. Informing interested parties about changes in the content of the educational program is periodic, but it should be noted that it is necessary to publish changes made to educational programs for wider access by all interested parties.

***Strengths/Best practices:***

Not identified

***Recommendations for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

- To develop regulations setting out the procedure and deadlines for posting information on the university's website about any changes made to educational programs by September 01, 2025.

***HEC conclusions on the criteria for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

According to the standard "*Continuous monitoring and periodic evaluation of educational programs*", 10 criteria are disclosed: all 10 have a satisfactory position.

[6.5. Standard "Student-centered learning, teaching and assessment of academic performance"](#)

- *The management of the educational institution should ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths.*
- *The management of the educational institution 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 assessment of learning outcomes that ensure the achievement of the goals of the educational institution, including competencies and skills to perform scientific work at the required level.*
- *The management of the EP should determine the mechanisms for distributing the educational load of students between theory and practice within the framework of the EP, ensuring that each graduate learns the content and achieves the goals of the EP.*
- *An important factor is the availability of in-house research in the field of teaching methods of EP disciplines.*
- *The university must ensure that the procedures for evaluating learning outcomes are consistent with the planned results and objectives of the educational program.*
- *The university should ensure consistency, transparency and objectivity of the learning outcomes assessment mechanism. Criteria and methods for evaluating learning outcomes should be published in advance.*
- *Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly upgrade their skills in this area.*
- *The management of the educational institution should demonstrate the existence of a feedback system on the use of various teaching methods and assessment of learning outcomes.*
- *The management of the educational institution should demonstrate support for the autonomy of students with simultaneous guidance and assistance from the teacher.*
- *The management of the educational institution should demonstrate the existence of a procedure for responding to student complaints.*

### ***The evidentiary part***

In general, the university practices student-centered learning based on the consideration of personal characteristics and needs of students. The choice of an individual learning trajectory is provided to students when they draw up an individual curriculum, by choosing disciplines, both a mandatory component and elective courses.

The university management strives to ensure equal opportunities for students, regardless of the language of instruction, to form an individual educational program aimed at developing professional competencies. The individual educational trajectory is reflected in modular educational programs and individual curricula, where, along with general education, basic subjects of the compulsory component, there are elective courses aimed at the formation of professional competencies.

Various forms and methods of teaching are actively used in the classroom process, but there is no evidence of student participation in their selection and definition.

The methodology of teaching technical sciences is designed to ensure a high theoretical level of teaching, strict scientific character, brightness and clarity of presentation of the material. As a set of specific techniques, teaching methods are inextricably linked to the content of the science being studied and its methodology. In this regard, the leading teachers of the department have developed methods for teaching academic disciplines of the OP. The results of the study have been tested in the form of articles and published in leading journals of the Republic of Kazakhstan.

At the university, teaching staff pay attention to the development and implementation of educational innovations, but there are no publications or other evidence of research results in the field of teaching methods.

Along with the application of innovations at the university, attention is paid to feedback, identifying student satisfaction with the use of various teaching methods and evaluating learning outcomes.

The University has a Student Service Center (SCC), which provides high-quality and fast student service on a one-stop-shop basis. The SCC organizes the reception, review, and receipt of various certificates, applications, and documents of students (issuance of certificates, transcripts, translations, restorations, academic leave, tuition fees, etc.). The SCC provides information assistance to students, undergraduates, graduates, applicants, and parents of students on university education issues.



The needs of students are identified by means of questionnaires and filling out special forms on the KATRU educational portal.

The university does not ignore the problems and complaints of students, but there are no procedures for responding to student complaints.

Attention is paid to mechanisms for evaluating learning outcomes, ensuring their consistency, transparency and objectivity. The procedure for filing and considering an appeal has been determined.

The learning outcome assessment procedures correspond to the planned learning outcomes and program objectives. However, not all evaluation criteria and methods are published in advance.

Within the framework of student support systems, considerable attention is paid to creating conditions and opportunities that allow each graduate to master the learning outcomes.

At the university, teaching staff pay attention to the development of modern methods for assessing learning outcomes, but these issues are not reflected in the results of professional development.

### ***The analytical part***

The analysis of the standard "Student-centered learning, teaching and assessment of academic performance" showed that modern teaching technologies are used in accredited educational institutions. The faculty of the department conducts its own local research in the field of teaching methods.

Based on the results of the analysis of the submitted materials, the management of the EP demonstrated the availability of a feedback system on the use of various teaching methods and assessment of learning outcomes.

The systematic development and implementation of various forms and methods of teaching and learning, including the use of innovative methods, is shown, the satisfaction of students and teaching staff with methodological and innovation is monitored, at the same time, the commission notes that the issues of having their own research on teaching methods within the framework of the implemented educational programs need to be improved.

The university pays attention to feedback, identifying student satisfaction with the use of various teaching methods and evaluating learning outcomes.

The university has implemented a student support system that allows graduates to fully master the learning outcomes.

The development of modern methods for evaluating learning outcomes is not reflected in the results of professional development.

During the survey, students assessed their satisfaction with the level of accessibility of academic counseling: fully satisfied – 61 (92.4%), partially satisfied – 4 (6.1%), dissatisfied – 1 (1.5%); support of educational materials in the learning process: fully satisfied – 59 (89.4%), partially satisfied – 5 (7.6%), dissatisfied – 1 (1.5%); teaching methods in general: fully satisfied – 58 (87.9%), partially satisfied – 6 (9.1%), dissatisfied – 1 (1.5%), partially dissatisfied – 1 (1.5%); quality of examination materials: fully satisfied – 63 (95.5%), partially satisfied – 2 (3%), partially dissatisfied – 1 (1.5%); objectivity of assessment of knowledge, skills and other academic achievements: fully satisfied - 61 (92.4%), partially satisfied – 4 (6.1%), dissatisfied – 1 (1.5%).

### ***Strengths/best practices:***

***- Not identified***

***Recommendations for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

***- To the EP management to ensure the possibility to improve the qualification of the teaching staff in the field of modern methods of assessment of learning outcomes until September 01, 2025.***



***EEC conclusions on criteria for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

For the standard “**Student-Centered Learning, Teaching and Assessment of Learning**” 10 criteria are disclosed, of which: 9 have a satisfactory position, 1 suggests improvement.

***6.6. Standard “Students”***

- *The university must demonstrate the policy of forming a contingent of students and ensure transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) must be defined, approved, and published.*
- *The management of the educational institution should provide special adaptation and support programs for newly enrolled and international students.*
- *The university must demonstrate compliance with its actions with the Lisbon Recognition Convention, including the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education.*
- *The university should provide opportunities for external and internal academic mobility of students, as well as assist them in obtaining external grants for training.*
- *The university should actively encourage students to self-education and development outside the main curriculum (extracurricular activities).*
- *An important factor is the availability of a support mechanism for gifted students.*
- *The university should demonstrate cooperation with other educational organizations and national centers of the "European Network of National Information Centers for Academic Recognition and Mobility/ National Academic Recognition Information Centers" ENIC/NARIC to ensure comparable recognition of qualifications.*
- *The university should provide students with internship places, demonstrate the procedure for facilitating the employment of graduates, and maintain contact with them.*
- *The university must demonstrate the procedure for issuing documents to graduates confirming their qualifications, including the achieved learning outcomes.*
- *The management of the EP should demonstrate that graduates of the program have skills that are in demand in the labor market and that these skills are really in demand in the labor market.*
- *The management of the educational institution should demonstrate the existence of a mechanism for monitoring the employment and professional activities of graduates.*
- *An important factor is the presence of an active alumni association/association.*

***The evidentiary part***

The policy of forming the contingent of students at S. Seifullin KATRU has a systematic nature and is carried out throughout the academic year.

The principles of formation of the contingent of students at the University, their admission, accounting, movement in the process of training and ensuring graduation are determined by: Model rules of admission to training in educational organizations, implementing professional training programs of higher education, approved by the Government of the Republic of Kazakhstan on January 19, 2012 № 111 (as amended on April 19, 2012 № 487).

For the adaptation of students who entered the 1st year, at the beginning of the academic year orientation week is held, where students are familiarized with the organization of the educational process, the requirements and rules of internal order, academic integrity and safety, presented directions of work of educational activities, students are provided with a guide-guidebook

The department supervises students throughout the entire period of study. By the order of the Rector of the University, an adviser (curator) is appointed to the EP, who helps first-year students in adapting to the educational process in the university, in choosing an educational path and observing the whole process of students' academic achievements. First-year students receive information and consultations about the peculiarities of the educational process in the university from the supervisors of academic groups, who provide explanations of the basic policy intended for students, requirements for examinations, rules for retaking disciplines, procedures for expressing complaints, etc.

The University considers as the most important target indicator the promotion of academic mobility of students, as one of the principles of the Bologna Declaration. The University is guided by regulatory and internal documents, as well as the transcript of the student.

Monitoring satisfaction with the results of practice is carried out in the form of analysis of students' reporting documentation, reports of methodologists and practice supervisors, minutes of final meetings of methodologists, feedback from the heads of practice bases, requests from organizations and schools, visits to practice bases by the head of professional practice of the university

Information on admission, results of academic performance, contingent movement, graduation, etc. is analyzed for the contingent of students. Students of accredited specialties are characterized by high demand, which is explained by the high demand for these specialties in the labor market in the Republic of Kazakhstan.

The university has created favorable conditions for the harmonious and creative development of students, cultural and sporting events, volunteer movement.

The faculty management invites new employers, organizes meetings with them, concludes agreements on social partnership. Open Doors Day is systematically organized. According to the results of surveys, the majority of employers highly appreciate the level of professional training of graduates studying in accredited specialties.

For the successful employment of the graduates of EP the management of EP provides conditions for the successful completion of industrial practice by the students both in methodological support and moral support, and as a result, after the completion of practice, many students are already at this stage working at the enterprises. After passing the internship students of the graduating group are employed at the EP specialty 6B07105-Mechanical Engineering. At the present moment of time monitoring of employment shows that the demand in the labor market for specialists of this specialty is growing from year to year, this is primarily due to the development of modern methods of market relations between economic entities.

The materials of the EP report describe the adaptation of students and foreign students. The organization of this process takes place in an introductory course, where students are familiarized with the features of credit technology and point-rating systems, learning in the Master's program. It was not possible to find confirmation of the university's assistance in relation to the Lisbon Recognition Convention and cooperation with the national centers ENIC/NARIC.

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

Experts of EEC IAAR note that KATRU has a transparent policy of formation of the contingent of students. Surveys of contingent formation and the results of admission are considered at the meetings of the Rectorate and Academic Council. The members of the commission were convinced that the university carries out systematic career guidance work aimed at the formation of a quality contingent of students. The University has good material and technical base and sufficient infrastructure, the necessary conditions have been created for students to obtain quality knowledge and comprehensive development.

The information presented in the self-evaluation report in the context of this standard was mainly confirmed during the visit of the EEC. At the same time, the external commission notes that, as the interview with graduates showed, not all of them are aware of the fact that the KATRU Alumni Association operates in the university.

The University positions the compliance of its actions with the Lisbon Convention on Recognition, developed internal regulatory documents on the procedure of recognition of mastered by students training courses and credits in the framework of academic mobility. At the same time, the work on the recognition of the results of additional, formal and informal learning is put at an insufficient level. During the visit of internship bases, as well as in the framework of meetings with focus groups, it was noted by the subjects of the educational process the

opportunities for professional practice in the leading organizations of the region, as well as opportunities for further employment.

Questioning of students, conducted during the visit of the EEC, showed that:

- the bulk of students are satisfied with the existing educational resources of the university (89.4% or 59 people);
- more than half of the students are fully satisfied with the availability of health care services (81.8% or 54 people).

***Strengths/best practices:***

The university provides students with internship places, and demonstrates the procedure of facilitating employment of graduates, keeping in touch with them

***Recommendations for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

- To increase the level of students' participation in internal and external academic mobility programs, including virtual mobility, by means of students' participation in the best online courses of foreign universities by December 01, 2025;
- Develop mechanisms for recognizing the results of additional, formal and informal training by September 01, 2025.

***EEC conclusions on criteria for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

There are 12 criteria disclosed for the Learners standard, of which: 1 has a strong position, 10 has a satisfactory position, and 1 suggests improvement.

***6.7. Standard "Teaching staff"***

- *The HEI should have an objective and transparent personnel policy in the context of the OP, including recruitment (including invited faculty members), professional growth and development of staff, ensuring professional competence of the entire staff.*
- *The HEI should demonstrate the compliance of the qualitative composition of the teaching staff with the established qualification requirements, the HEI strategy, and the objectives of the EP.*
- *The EP management should demonstrate the change of the teacher's role in connection with the transition to student-centered learning and teaching.*
- *The HEI should provide opportunities for career growth and professional development of the teaching staff, including young teachers.*
- *The university is obliged to attract to teaching specialists of relevant industries with professional competencies that meet the requirements of the EP.*
- *The university should demonstrate the existence of a mechanism for motivation of professional and personal development of the teaching staff.*
- *The University is obliged to demonstrate a wide use of information and communication technologies and software tools in the educational process (e.g. on-line learning, e-portfolio, MOOCs, etc.).*
- *The University is obliged to demonstrate the focus on the development of academic mobility, attracting the best foreign and domestic teachers.*
- *The university should demonstrate the involvement of each faculty member in promoting the culture of quality and academic integrity in the university, determine the contribution of the teaching staff, including invited ones, to the achievement of the EP goals.*
- *An important factor is the involvement of teaching staff in the development of the economy, education, science and culture of the region and the country.*

***Evidentiary part***

S. Seifullin KATRU has a highly qualified teaching staff and implements personnel policy in accordance with the main priorities of the university development strategy. The teaching staff of the university carries out educational, teaching and methodical, research and educational work, as well as control and management of research work of students.



The conditions for effective work of teachers and staff of the university are created for the teaching staff, educational and academic activities are stimulated, and their professional qualification is improved.

The qualitative and quantitative composition of the teaching staff ensures the implementation of the whole range of educational programs.

Teachers of EP, involved in the educational process, systematically undergo professional development (from seminars based on KATRU to training on the basis of other universities), including in the profile of disciplines taught.

For the purpose of effective implementation of the educational program, part-time teachers are involved in practical professional activities at their main place of work: Minbaev J.S., Mazbulov J.J. - engineer-constructors, LLP “Kazakhstan Paramount Engineering”, Sherov A.K. - Chief Designer, LLP “Design Bureau “STEP”.

For professional growth and development of the university faculty, the university organizes various events, regular training and professional development of the faculty both in Kazakhstan and abroad. This includes participation in seminars, trainings and scientific internships, which helps to introduce new knowledge in the educational process. For example, this year 25 teachers at the university under the international program “Bolashak” have undergone and are undergoing scientific internship in different leading countries of the world for a period from three months to one year.

The results of research work are reflected in the publications of teaching staff: articles in international cited journals (according to WoS, Scopus, RINC); monographs, innovative patents of the Republic of Kazakhstan; teaching aids, in the materials of domestic and foreign conferences.

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

The experts note that the university provides monitoring of teaching staff activity, documents regulating and reflecting the teaching quality assessment have been developed. The results of sociological research are considered at the meetings of the Rectorate, Academic Council, and decisions on corrective actions are made.

EEC notes that the university provides opportunities for career growth and professional development of teaching staff. At the chair the formation of scientific-pedagogical staff is carried out by training Masters of Technical Sciences and Doctor of Philosophy. At present, 6 people are studying at the department in the scientific-pedagogical direction in the doctoral program in the specialty “Mechanical Engineering”.

The Commission notes that the following issues regarding this standard are not fully reflected in the self-evaluation report and were not confirmed during the EEC visit.

The University encourages the integration of research and education and the use of innovative teaching methods by teaching staff. At the same time, the Commission notes the insufficient level of use of innovative teaching methods and the use of information and communication technologies in the educational process (on-line learning, MOOCs, etc.).

The EEC notes the sufficient work of the university on the survey of the teaching staff and students. As the results of the survey show, students are satisfied with the quality of teaching by the university faculty (89.4% or 59 people). The university implements a purposeful policy on the formation of corporate spirit in the team and a set of measures for the social support of teaching staff.

#### ***Strengths/best practices:***

The university provides opportunities for career growth and professional development of the teaching staff, including young teachers

***Recommendations for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***



- To develop an action plan for the use of innovative teaching methods by September 01, 2025, as well as to consider on a permanent basis at the meeting of collegial bodies the issues on the introduction of the innovative component in the teaching process.

**EEC conclusions on criteria for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):** 10 criteria are disclosed for the standard “Teaching staff”, of which: has 1 strong position, 7 satisfactory position, and 2 suggesting improvement.

#### 6.8. Standard “Educational Resources and Student Support Systems”

- *The HEI must guarantee the compliance of educational resources, including material and technical, and infrastructure with the objectives of the educational program.*

- *The EP management must demonstrate the availability of classrooms, laboratories and other facilities equipped with modern equipment and ensure the achievement of EP objectives.*

*The university should demonstrate the compliance of information resources with the needs of the university and the implemented EPs, including the following areas:*

- *technological support for students and teaching staff in accordance with the educational programs (e.g., online learning, modeling, databases, data analysis programs);*

*Library resources, including the fund of educational, methodological and scientific literature on general education, basic and specialized disciplines on paper and electronic media, periodicals, access to scientific databases;*

- *examination of the results of research and development, graduate works, and dissertations for plagiarism;*

- *access to educational Internet resources;*

- *functioning of WI-FI on its territory.*

- *The university should demonstrate that it creates conditions for conducting scientific research, integration of science and education, publication of the results of research work of faculty, staff and students.*

- *The university should strive to ensure that the educational equipment and software tools used to master educational programs are similar to those used in the relevant sectors of the economy.*

- *EP management must demonstrate the existence of support procedures for different groups of learners, including information and counseling.*

- *The EP management must demonstrate the presence of conditions for the progression of the student on an individual educational trajectory.*

- *The university must consider the needs of different groups of students (adults, working, foreign students, as well as students with special educational needs).*

- *The university must ensure the compliance of the infrastructure with safety requirements.*

#### **Evidentiary part**

When checking the material and technical base of the EP it was noticed that the university has good material and technical, information and library resources used to organize the process of education and training of students and to implement the mission, goals and objectives of S. Seifullin KATRU.

Constant improvement of material and technical base is one of the ways to improve the quality of education and achieve the goals of the university. KATRU has created conditions for students to study and conduct research, publishing the results of research with a high impact factor.

The University has a support system for students, a medical center, catering areas, sports facilities, library, 5 student hostels (2a, #2b, #5, #6, #7, #3, #8) and 3 (#1a, #2, #4) hostels for teachers, historical and ethnographic museum.

Material-technical and social base, which is in operational management of S. Seifullin KATRU, is in Nur-Sultan, consists of 13 educational buildings, useful area of 50953.5 m<sup>2</sup>.

The area of indoor sports facilities of the university is 6486.7 m<sup>2</sup>, they include 3 gyms and sports and recreation complex “Orlenok”, which has a training gym, gymnasium. There are 5 summer outdoor sports facilities with a total area of 8411 m<sup>2</sup>. 13 canteens for 770 seats with a total area of 3247.7 m<sup>2</sup> are functioning to provide meals for students and staff of the university.

The university has a medical center with a total area of 109 m<sup>2</sup>. For cultural and mass events at the University there is a faculty of arts and creativity.

The University has all necessary documents confirming the right to real estate. All buildings where classes are held meet sanitary norms, fire safety requirements.

The department carries out systematic work on updating and improving the material and technical base of the accredited OP. The students of these OPs have the opportunity and access to use the socio-cultural, sports facilities of the university.

The University has a “Service Center for Students” (SCS) to inform and advise students on the effective organization of the educational process. Students can contact specialists on the organization of the educational process. Effective activity and obtaining information to improve the internal quality assurance system is carried out in the educational portal, in the subsection “information systems”: IS “Electronic Journal of the curator”; IS “Dormitory”; IS; IS “Teamwork”.

All dormitories and academic buildings have ID TV, ID Phone and high-speed Wi-Fi.

AIS “Platonus” is functioning at the University. For the disciplines of accredited programs electronic versions of EMCD are placed in the educational portal, access to which is available to all students and faculty members of the department, if there is a personal account with authorization by login and password.

The students have free access to the Kazakhstan National Electronic Library, Republican Interuniversity Electronic Library [www.rmeb.kz](http://www.rmeb.kz), scientific electronic library [elibrary.ru](http://elibrary.ru), Web of knowledge, Elsevier [polpred.com](http://polpred.com), Scopus.com and others. Also works scientific and electronic library of the university, which provides access for students and teachers to foreign full-text databases, using a license agreement with the operator of resources [elibrary.ru](http://elibrary.ru).

The university takes measures aimed at improving resource support. Examination of the results of graduate works, dissertations for plagiarism is carried out by the program “Anti-Plagiarism. UNIVERSITY” PROGRAM.

The Commission found that the specialized classrooms have appropriate teaching and laboratory equipment. In terms of equipment and sufficiency of the classroom fund, in general, corresponds to the objectives of educational programs of the university, which is confirmed in the survey of students (more than 80% indicated full satisfaction with the availability of library resources, available computer classes, classrooms and laboratories).

### ***Analytical part***

As a result of visual inspection of material facilities by the EEC members, it should be noted that the university has all the necessary educational and material assets to ensure the educational process of accredited programs. Auditorium and laboratory facilities, classrooms comply with the established norms and rules. However, the university should improve the technical capabilities for people with disabilities, replenish the amount of special literature in the areas of training, especially in electronic format.

The information provided by the university on the above-mentioned EPs on material, technical and information resources show a tendency for improvement.

As a result of analyzing the activities of accredited EPs according to this standard, it can be concluded that the assessment of completeness and availability of material, technical and information resources specified by EPs has been carried out. There are the dynamics of resources and learning environment, library support of the educational process, the activities aimed by the management of the EP to improve the resource support of the EP realization are highlighted.

When carrying out educational activity the university is guided by normative documents, regulating mandatory regulatory requirements to the material-technical and training-laboratory base of educational organizations. There is a good enough level of information support of educational and scientific-educational activities with access to full-text electronic resources of educational and scientific value, which meets the needs of students and faculty.

**Strengths/best practices:**

The management of the EP demonstrated the availability of classrooms, laboratories and other facilities with modern equipment and ensuring the achievement of the EP objectives.

**Recommendations for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):**

Not available.

**Conclusions of EEC on the criteria for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):**

Educational Resources and Student Support Systems standard 13 criteria are disclosed, of which: 1 has a strong position, 12 has a satisfactory position.

**6.9. Standard “Public Awareness”**

• Information published by the HEI should be accurate, objective, up-to-date and reflect all areas of the HEI's activities within the framework of the educational program.

Public information should support and explain the national development programs of the country and the system of higher and postgraduate education.

• The HEI management should use a variety of information dissemination methods (including mass media, web resources, information networks, etc.) to inform the general public and stakeholders.

• Information published by the HEI about the educational program should be objective and up-to-date and should include:

- the purpose and planned results of the program, the qualification to be awarded;
- information about the system of evaluation of students' educational achievements;
- information about academic mobility programs and other forms of cooperation with partner universities and employers;
- information about the opportunities for the development of personal and professional competencies of students and employment;
- data reflecting the positioning of the EP on the market of educational services (at regional, national, international levels).

An important factor is the publication of reliable information about the teaching staff on open resources, in the context of personalities.

- The university should publish on its own web-resource audited financial statements on the EP.
- The university should publish information and links to external resources on the results of external evaluation procedures.

• An important factor is the placement of information on cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners and educational organizations.

**Evidentiary part**

In carrying out the assessment in relation to the standard “Public Awareness”, EEC experts studied the materials and documents presented in the report on the self-assessment of the University, as well as information posted on the official website of KATRU [www.kazatu.edu.kz](http://www.kazatu.edu.kz), publication of accounts in social networks and mass media.

To ensure public awareness of the activities of KATRU, Faculty of Engineering, the Department has developed information resources - the official website of the University [www.kazatu.edu.kz](http://www.kazatu.edu.kz) in the section “Faculties and Departments” <https://kazatu.edu.kz/facultets>, <https://kazatu.edu.kz/facultet/kafedra-standartizacii-metrologii-i-sertifikacii> provides full information about the educational programs “Mechanical Engineering”, which allow you to get any amount of information in a timely manner:

- starting from the organization of the educational process, the main and cultural events held by the university which are posted on the site, in mass media (newspapers, magazines, TV channels), the university newspaper - “My University”, etc.

- realization of career guidance works for schoolchildren in schools and college students of Astana city and regions of Kazakhstan;

- publishing information about the activities of the department in the mass media of republican,

- regional and city mass media and social media;
- performance in TV channels such as “Kazakhstan”, “Khabar”, “First” “Khabar 24” and others;
- performance on radio channels “Kazakh Radiosy”, “Astana Radiosy”.

Objective and up-to-date information about teaching, learning, assessment procedures is given in the Academic Policy of the university, approved by the Academic Council of S. Seifullin NJSC KATRU <https://kazatu.edu.kz/assets/i/deps/kodeks-2019-ru.pdf>.

Information about the educational program, the number of students enrolled in the programs, and the teachers who provide training is constantly published on the university's website, portal, information stands, and booklets. The department has an information stand informing about the specifics of the specialty, the results and achievements of the EP.

The organization of various cultural events is a confirmation of the development of culture and the most optimal forms of university propaganda. This is the education of the spirit of patriotism among young people, the strengthening and promotion of national and family values. Design of information stands in university buildings about the diverse activities of the university (educational, research, educational, creative), to inform students. The university annually produces and distributes booklets, brochures, and newspapers about the university in various areas of its activities: educational and methodological, scientific research, public, cultural, and educational.

According to the results of the student survey, satisfaction with information about courses, educational programs, and academic degrees is 90.9%.

#### ***The analytical part***

The EEC notes that in the field of information dissemination policy, the S. Seifullin KATRU demonstrates a policy of transparency, openness, involvement in informing the public of applicants, employers, participants in the educational process and all interested parties, continuous development and adaptability to the changing realities of society.

At the same time, the EEC experts point out that information on certain issues, for example, in terms of employment, events with employers, information on practice bases and representatives of employers from among graduates is not presented systematically, mainly by structural divisions, respectively, it does not fully reflect the results of the university's activities.

The assessment of satisfaction with information about the university's activities, specifics and progress in the implementation of the EP is conducted annually through questionnaires and surveys of interested people. There is a "Rector's Blog" on the university's website, where everyone can ask a question to the first head of the university and get an answer.

Based on the analysis of the information provided on the website, the EEC notes that the results of the university's activities are not fully reflected. In connection with the creation of the national register of educational programs, experts note the need to supplement the objective information posted on the website about the changes in the curriculum. Providing information on learning outcomes, compliance with the National Qualifications System, assessment procedures and educational opportunities provided to students, teaching staff, courses taught, publications, and their scientific interests.

#### ***Strengths/Best practices:***

Not identified

#### ***Recommendations for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

- To carry out work on updating both general information on the university's website and in terms of implemented educational programs, indicating specific expected learning outcomes, cooperation with scientific and educational organizations, business partners, social partners and organizations, etc. by 03/01/2025.



***HEC conclusions on the criteria for EP 6B07105-Mechanical Engineering (Bachelor's degree), 8D07105-Mechanical Engineering (Doctoral degree):***

According to the "Informing the Public" standard, 12 criteria are disclosed: all 12 have a satisfactory position.



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

**According to the Educational Program Management standard:**

Not identified

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

Not identified

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

Not identified

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

Not identified

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

Not identified

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

The university provides students with internship places, and also demonstrates the procedure for facilitating the employment of graduates, maintaining contact with them

**According to the "Teaching staff" standard:**

The university provides opportunities for career growth and professional development of teaching staff, including young teachers

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

The management of the EP demonstrated the presence of classrooms, laboratories and other facilities equipped with modern equipment and ensuring the achievement of CERTAIN goals.

**According to the standard "Informing the public":**

Not identified

## (VIII) OVERVIEW OF RECOMMENDATIONS FOR QUALITY IMPROVEMENT FOR EACH STANDARD

### **According to the standard "Educational Program Management"**

- To specify and update the development plan of accredited educational institutions to determine their uniqueness and taking into account the priority areas of research development for the engineering industry in accordance with the University's Development Strategy and with changes in regulatory legal acts in the higher education system by September 01, 2025.

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

To provide participants in the educational process with the necessary information, improve the information content of the websites of structural divisions (in particular, the faculty and special departments) presented on the university's website according to the levels of education implemented by the staff members, expand the personal pages of teaching staff, heads of the faculty until March 01, 2025.

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

- To develop and implement courses/modules in the structure of the educational program aimed at preparing students for professional certification by December 01, 2025;  
 - To develop an action plan for the creation of a joint/educational programs with the identification of potential partners among national and foreign universities, coordination of the curriculum structure, preparation of the EP elements for approval and the start of admission in 2025.

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

- To develop regulations setting out the procedure and deadlines for posting information on the university's website about any changes made to educational programs by September 01, 2025.

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

To provide the management of the educational institution with the opportunity to improve the qualifications of teaching staff in the field of modern methods of evaluating learning outcomes by September 01, 2025.

### **According to the standard "Students"**

- To increase the level of student participation in internal and external academic mobility programs, including virtual ones, through student participation in the best online courses at foreign universities until December 01, 2025;  
 - To develop mechanisms for recognizing the results of additional, formal and non-formal education by September 01, 2025.

### **According to the standard "Teaching staff"**

- To develop an action plan for the use of innovative teaching methods by September 01, 2025, as well as to consider issues related to the introduction of an innovative component in the educational process on an ongoing basis at a meeting of collegial bodies.

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

Not available.

**According to the standard "Informing the Public"**

- To carry out work on updating both general information on the university's website and in terms of implemented educational programs, indicating specific expected learning outcomes, cooperation with scientific and educational organizations, business partners, social partners and organizations, etc. by 03/01/2025.





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

The members of the external expert commission came to the unanimous opinion that the educational programs 6B07105 "Mechanical Engineering", 8D07105 "Mechanical Engineering", implemented by the NJSC "S. Seifullin Kazakh Agrotechnical Research University", can be accredited for a period of 5 years.



**Appendix 1. Evaluation table "Conclusion of the external expert commission"**

**Conclusion of the external expert commission for the assessment of the quality  
of educational programs 6B07105 "Mechanical Engineering", 8D07105  
"Mechanical Engineering" NJSC " S. Seifullin Kazakh Agrotechnical Research  
University"**

№	№	Evaluation criteria	The position of the educational organization			
			Strong	Satisfactory	Implies improvement	Unsatisfactory
<b>Standard «The Educational Program Management »</b>						
1	1.	The university should demonstrate the development of a goal and strategy for the development of an educational institution based on an analysis of external and internal factors with the broad involvement of a variety of stakeholders.		+		
2	2.	The quality assurance policy should reflect the relationship between scientific research, teaching and learning		+		
3	3.	The university demonstrates the development of a culture of quality assurance		+		
4	4.	Commitment to quality assurance should apply to any activity carried out by contractors and partners (outsourcing), including in the implementation of joint/double-degree education and academic mobility			+	
5	5.	The management of the educational institution ensures transparency in the development of an educational development plan based on an analysis of its functioning, the actual positioning of the university and the orientation of its activities to meet the needs of the state, employers, stakeholders and students.		+		
6	6.	The management of the educational institution demonstrates the functioning of mechanisms for the formation and regular review of the educational development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, and making decisions aimed at continuous improvement of the operational		+		
7	7.	The management of the EP should involve representatives of groups of stakeholders, including employers, students and teaching staff in the formation of a development plan for the EP			+	
8	8.	The management of the educational institution should demonstrate the individuality and uniqueness of the educational institution's development plan, its consistency with national development priorities and the educational organization's development strategy.		+		
9	9.	The university must demonstrate a clear definition of those responsible for business processes within the framework of the management system, the distribution of staff duties, and the differentiation of functions of collegial bodies.		+		
10	10.	The management of the EP ensures coordination of the activities of all persons involved in the development and management of the EP, and its continuous implementation, as well as involves all stakeholders in this process.		+		
11	11.	The management of the EP should ensure the transparency of the management system, the functioning of the internal quality assurance system, including its design, management and monitoring, and appropriate decision-making.		+		
12	12.	The management of the EP should carry out risk management		+		

13	13.	The management of the educational institution should ensure the participation of representatives of interested parties (employers, teaching staff, students) in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.		+		
14	14.	The university must demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals.		+		
15	15.	The management of the educational institution should demonstrate its openness and accessibility to students of teaching staff, employers and other interested parties.		+		
16	16.	The management of the educational institution confirms the completion of training in educational management programs		+		
17	17.	The management of the EP should strive to ensure that the progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.		+		
<b>Total according to the standard</b>			-	<b>15</b>	<b>2</b>	
<b>Standard «The Information Management and Reporting »</b>						
18	1.	The university should ensure the functioning of the information collection, analysis and management system based on modern information and communication technologies and software		+		
19	2.	The EP's management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system.		+		
20	3.	The management of the EP demonstrates the existence of a reporting system reflecting the activities of all structural divisions and departments within the EP, including an assessment of their effectiveness.		+		
21	4.	The university should determine the frequency, forms and methods of evaluating the management of the educational institution, the activities of collegial bodies and structural divisions, and top management.		+		
22	5.	The university must demonstrate a mechanism for ensuring information protection, including identifying those responsible for the accuracy and timeliness of information analysis and data provision.		+		
23	6.	The university demonstrates the involvement of students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.		+		
24	7.	The management of the educational institution should demonstrate the availability of communication mechanisms with students, employees and other stakeholders, including conflict resolution.		+		
25	8.	The university should ensure the measurement of the degree of satisfaction of the needs of teaching staff, staff and students within the framework of the educational program and demonstrate evidence of the elimination of the identified deficiencies.		+		
26	9.	The university should evaluate the effectiveness and efficiency of its activities, including in the context of EP		+		
		The information collected and analyzed by the university within the framework of the EP should consider:				
27	10.	key performance indicators		+		
28	11.	the dynamics of the student body in terms of forms and types		+		
29	12.	of academic performance, student achievements and expulsion		+		
30	13.	satisfaction of students with the implementation of the EP and the quality of education at the university		+		
31	14.	availability of educational resources and support systems for students		+		
32	15.	employment and career development of graduates		+		
33	16.	Students, staff, and teaching staff must document their consent to the processing of personal data.		+		
34	17.	The management of the EP should help to provide all the necessary information in the relevant fields of sciences.		+		
<b>Total according to the standard</b>			-	<b>17</b>	-	
<b>The standard «Development and approval of the educational program»</b>						
35	1.	The university must demonstrate the existence of a documented procedure for the development of an EP and its approval at the institutional level.		+		

36	2.	The university must demonstrate the compliance of the developed EP with the established goals and planned learning outcomes.		+		
37	3.	The management of the educational institution should determine the impact of discipline and professional practices on the formation of learning outcomes.		+		
38	4.	The university can demonstrate the availability of a graduate's model of learning outcomes and personal qualities.		+		
39	5.	The qualifications awarded upon completion of the EP should be clearly defined, explained and correspond to a certain level of the NSC, QF-EHEA		+		
40	6.	The management of the EP should demonstrate the modular structure of the program based on the European Credit Transfer and Accumulation System (ECTS), ensure that the EP and its modules (in terms of content and structure) meet the goals set with a focus on achieving the planned learning outcomes.		+		
41	7.	The management of the educational institution should ensure that the content of academic disciplines and learning outcomes correspond to each other and to the level of study (bachelor's, master's, doctoral studies).		+		
42	8.	The management of the EP must demonstrate the conduct of external expertise of the EP		+		
43	9.	The management of the educational institution must provide evidence of the participation of students, teaching staff and other stakeholders in the development of educational programs and ensuring their quality		+		
44	10.	The management of the EP should demonstrate the positioning of the EP in the educational market (regional/ national/ international), its uniqueness		+		
45	11.	An important factor is the possibility of preparing students for professional certification			+	
46	12.	An important factor is the availability of a double-degree EP and/or joint EP with foreign universities.			+	
<b>Total according to the standard</b>			-	<b>10</b>	<b>2</b>	
<b>The standard «Continuous monitoring and periodic evaluation of basic educational programs»</b>						
47	1.	The university should ensure the revision of the content and structure of the educational program, considering changes in the labor market, the requirements of employers and the social demand of society.		+		
48	2.	The university must demonstrate the existence of a documented procedure for monitoring and periodic evaluation of the EP to achieve the goal of the EP. The results of these procedures are aimed at continuous improvement of the EP		+		
		The monitoring and periodic evaluation of the EP should consider				
49	3.	the content of the programs in the context of the latest achievements of science and technology in a particular discipline.		+		
50	4.	changes in the needs of society and the professional environment		+		
51	5.	of students' workload, academic performance and graduation		+		
52	6.	effectiveness of student assessment procedures		+		
53	7.	students' needs and satisfaction levels		+		
54	8.	compliance with the educational environment and the activities of support services with the objectives of the EP		+		
55	9.	All stakeholders should be informed of any planned or undertaken action regarding the EP. All changes made to the EP must be published.		+		
56	10.	Support services should identify the needs of different groups of students and the degree of their satisfaction with the organization of training, teaching, assessment, and mastering the EP in general.		+		
<b>Total according to the standard</b>			-	<b>10</b>	-	
<b>The standard «Student-centered learning, teaching and assessment of academic performance»</b>						
57	1.	The management of the educational institution should ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths.		+		
58	2.	The management of the educational institution 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 assessment of learning outcomes, ensuring the achievement of the goals of the educational institution, including competencies and skills to perform scientific work at the required level.				
59	3.	The management of the EP should determine the mechanisms for distributing the educational load of students between theory and practice within the framework of the EP, ensuring that each graduate learns the content and achieves the goals of the EP.		+		
60	4.	An important factor is the availability of our own research in the field of teaching methods of EP disciplines		+		
61	5.	The university must ensure that the procedures for evaluating learning outcomes comply with the planned results and objectives of the educational program.		+		
62	6.	The university should ensure consistency, transparency and objectivity of the learning outcomes assessment mechanism. Criteria and methods for evaluating learning outcomes should be published in advance.		+		
63	7.	Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly upgrade their skills in this area.			+	
64	8.	The management of the educational institution should demonstrate the existence of a feedback system on the use of various teaching methods and assessment of learning outcomes.		+		
65	9.	The management of the educational institution should demonstrate support for the autonomy of students with simultaneous guidance and assistance from the teacher.		+		
66	10.	The management of the educational institution should demonstrate the existence of a procedure for responding to student complaints.		+		
<b>Total according to the standard</b>			-	<b>9</b>	<b>1</b>	
<b>The standard «Students»</b>						
67	1.	The university must demonstrate the policy of forming a contingent of students and ensure transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) must be defined, approved, and published.		+		
68	2.	The management of the educational institution should provide for special adaptation and support programs for newly enrolled and international students.		+		
69	3.	The university must demonstrate compliance of its actions with the Lisbon Recognition Convention, including the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education.			+	
70	4.	The university should provide an opportunity for external and internal academic mobility of students, as well as assist them in obtaining external grants for training.		+		
71	5.	The university should actively encourage students to self-education and development outside the main curriculum (extracurricular activities)		+		
72	6.	An important factor is the availability of a support mechanism for gifted students		+		
73	7.	The university should demonstrate cooperation with other educational organizations and national centers of the "European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers" ENIC/NARIC in order to ensure comparable recognition of qualifications		+		
74	8.	The university should provide students with internship places, demonstrate the procedure for facilitating the employment of graduates, and maintain contact with them.	+			
75	9.	The university must demonstrate the procedure for issuing documents to graduates confirming their qualifications, including the achieved learning outcomes.		+		
76	10.	The management of the EP should demonstrate that graduates of the program have skills that are in demand in the labor market and that these skills are really in demand in the labor market.		+		

77	11.	The management of the educational institution should demonstrate the existence of a mechanism for monitoring the employment and professional activities of graduates.		+		
78	12.	An important factor is the presence of an active alumni association/association		+		
<b>Total according to the standard</b>			<b>1</b>	<b>9</b>	<b>1</b>	
<b>The standard «Teaching staff»</b>						
79	1.	The university should have an objective and transparent HR policy in the context of the EP, including hiring (including invited teaching staff), professional growth and staff development, ensuring the professional competence of the entire staff.		+		
80	2.	The university must demonstrate that the quality of the teaching staff meets the established qualification requirements, the university's strategy, and the goals of the educational program.		+		
81	3.	The leadership of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning and teaching		+		
82	4.	The university should provide opportunities for career growth and professional development of teaching staff, including young teachers.	+			
83	5.	The university should involve specialists from relevant industries with professional competencies that meet the requirements of the educational Standard.		+		
84	6.	The university must demonstrate the existence of a mechanism for motivating the professional and personal development of teaching staff		+		
85	7.	The university should demonstrate the widespread use of information and communication technologies and software tools by teaching staff in the educational process (for example, on-line learning, u-portfolios, Morses, etc.)			+	
86	8.	The university should demonstrate the focus of its activities on the development of academic mobility, attracting the best foreign and domestic teachers.			+	
87	9.	The university must demonstrate the involvement of each teacher in promoting a culture of quality and academic integrity at the university, and determine the contribution of teaching staff, including invited ones, to achieving CERTAIN goals.		+		
88	10.	An important factor is the involvement of teaching staff in the development of the economy, education, science and culture of the region and the country.		+		
<b>Total according to the standard</b>			<b>1</b>	<b>7</b>	<b>2</b>	
<b>The standard «Educational resources and student Support systems»</b>						
89	1.	The university must ensure that educational resources, including logistical and infrastructure, meet the objectives of the educational program.		+		
90	2.	The management of the EP should demonstrate the availability of classrooms, laboratories and other facilities equipped with modern equipment and ensuring the achievement of the goals of the EP	+			
		The university must demonstrate the compliance of information resources with the needs of the university and the implemented educational programs, including in the following areas:				
91	3.	technological support for students and teaching staff in accordance with educational programs (for example, online learning, modeling, databases, data analysis programs)		+		
92	4.	library resources, including a collection of educational, methodological and scientific literature on general education, basic and specialized disciplines on paper and electronic media, periodicals, access to scientific databases		+		
93	5.	examination of research results, graduation papers, dissertations for plagiarism		+		
94	6.	access to educational Internet resources		+		
95	7.	the operation of WI-FI on its territory		+		
96	8.	The university must demonstrate that it creates conditions for conducting scientific research, integrating science and education, and publishing the results of the research work of teaching staff, staff, and students.		+		

97	9.	The university should strive to ensure that the educational equipment and software used for the development of educational programs are similar to those used in the relevant sectors of the economy.		+		
98	10.	The management of the educational institution should demonstrate the availability of support procedures for various groups of students, including information and counseling		+		
99	11.	The management of the educational institution should show the availability of conditions for the student's advancement along an individual educational trajectory.		+		
100	12.	The university should take into account the needs of different groups of students (adults, working people, foreign students, as well as students with special educational needs)		+		
101	13.	The university must ensure that the infrastructure meets the security requirements		+		
<b>Total according to the standard</b>			<b>1</b>	<b>12</b>	<b>-</b>	
<b>The standard «Informing the Public»</b>						
102	1.	The information published by the university must be accurate, objective, relevant and reflect all areas of the university's activities within the framework of the educational program.		+		
103	2.	Public awareness should include support and explanation of the national development programs of the country and the system of higher and postgraduate education.		+		
104	3.	The university management should use a variety of ways to disseminate information (including mass media, web resources, information networks, etc.) to inform the general public and interested parties.		+		
		The information published by the university about the educational program should be objective and relevant and include:				
105	4.	the purpose and planned results of the EP, the assigned qualification.		+		
106	5.	information about the assessment system for students' academic achievements		+		
107	6.	information about academic mobility programs and other forms of cooperation with partner universities and employers		+		
108	7.	information about the opportunities for the development of personal and professional competencies of students and employment		+		
109	8.	data reflecting the EP's position in the educational services market (at the regional, national, and international levels)		+		
110	9.	An important factor is the publication on open resources of reliable information about the teaching staff, in terms of personalities		+		
111	10.	The university must publish audited financial statements on its own web resource.		+		
112	11.	The university should post information and links to external resources based on the results of external assessment procedures.		+		
113	12.	An important factor is the posting of information about cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners and educational organizations.		+		
<b>Total according to the standard</b>			<b>-</b>	<b>12</b>	<b>-</b>	
<b>in total</b>			<b>3</b>	<b>102</b>	<b>8</b>	