REPORT

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

6B05314 Chemistry
7M05311 Chemistry
6B07115 Chemical Engineering and Processes
7M07112 Chemical Engineering and Processes

M.Kh. DULATY TARAZ REGIONAL UNIVERSITY

for the period from May 23 to 25, 2024.

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
External Expert Commission

Addressed
to the IAAR
Accreditation Council

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

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2024

(I)   LIST OF DESIGNATIONS AND ABBREVIATIONS

AIS- automated information system

AC – Academic Committee

AW - Automated workplace

AC – Academic Council

EEC - External Expert Commission

D.t.s – Doctor of Technical Sciences

UHEP – Unified Higher Education Platform

ZhB – Zhambyl branch

MSI - municipal state institution

PRC – People's Republic of China

C.t.s – Candidate of Technical Sciences

CE - Catalog of electives

IC –Individual curriculum

MSHEofRK –Ministry of Science and Higher Education of the Republic of Kazakhstan

MESofRK – Ministry of Education and Science of the Republic of Kazakhstan

MSP – Modular study programs

IAAR - independent accreditation and rating agency

NPO - non-profit organization

NDFZ– Novodzhambul phosphorus plant

R&D – Research work

RLA – regulatory legal acts

NQF – National Qualifications Framework

SP – Study programs

IQF – Industry Qualifications Framework

AS – Academic staff

RSI - Republican state institution

WI – Working Instructions

RК – Republic of Kazakhstan

RIEL– Republican Interuniversity Electronic Library

WC – Working curriculum

MM – Mass media

EDMS – Electronic document management system

M.Kh. Dulaty TarRU – M.Kh. Dulaty Taraz Regional University

LLP– Limited Liability Partnership

TSS – Training and support staff

UShCO- University of the Shanghai Cooperation Organization

ELS – Electronic library system

(II) INTRODUCTION

In accordance with the order № 89-24-OD dated 26.02.2024 of the Independent Accreditation and Rating Agency from 23 to 25 May 2024, the external expert commission conducted an assessment of compliance of study programs 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes of M. Kh. Dulaty Taraz Regional University. M.Kh.Dulaty standards of specialized accreditation of the IAAR (dated '16' June 2020 No. 57-20-OD, edition sixth) in hybrid format.

The report of the External Expert Commission (EEC) contains the assessment of the submitted educational programs to the IAAR criteria, EEC recommendations on further improvement of educational programs and parameters of the profile of educational programs.

Composition of the EEC:

1. IAAR Commission Chairman - Baidaulet Amantayevich Urmashev, PhD, Associate Professor, Al-Farabi Kazakh National University (Almaty, Republic of Kazakhstan)

2. IAAR Expert - Aurica Chirsanova, PhD, Associate Professor, Head of Department of Nutrition and Nutritional Sciences, Technical University of Moldova (Chisinau, Republic of Moldova).

3. IAAR Expert - Alexey Mikhailovich Gostin, PhD, Associate Professor, Ryazan State Radio-Technical University (RSRTU) (Ryazan, Russian Federation).

4. IAAR Expert - Dina Bakytkozhaeva Kurmangalieva, Doctor of Technical Sciences, Professor, Kazakh Agro technical Research University named after S. Seifullin (Astana, Republic of Kazakhstan)

5. IAAR Expert - Indira Dzhurinskaya, PhD, Associate Professor, Almaty Technological University (Almaty, the Republic of Kazakhstan).

6. IAAR Expert - Ismailova Aisulu Abzhapparovna, PhD, Associate Professor, NAO 'Kazakh Agrotechnical Research University named after S. S. Gubkin' (Almaty, Republic of Kazakhstan). C. Seifullin' (Astana, Republic of Kazakhstan). 7.

7. IAAR Expert -Skiba Marina Alexandrovna, PhD, Associate Professor, Acting Head of the Centre for Academic Excellence, NAO 'Toraigyrov University' (Pavlodar, Republic of Kazakhstan).

8. IAAR Expert - Isabekov Zhanat Beisembayevich, PhD, NAO 'Toraigyrov University' (Pavlodar, Republic of Kazakhstan) 9.

9. IAAR Expert - Abilev Madi Baltabayevich, PhD, Associate Professor, Al-Farabi Kazakh National University (Almaty, Republic of Kazakhstan)

10. IAAR Expert - Eldar Kopishev, PhD in Chemistry, L.N.Gumilev Eurasian National University (Almaty, Republic of Kazakhstan). L.N.Gumilev Eurasian National University (Astana, Republic of Kazakhstan) 11.

11. IAAR Expert - Bulashev Berdibek Kabkenovich, Candidate of Agricultural Sciences, Associate Professor, Chairman of the Technical Committee for Standardisation № 100 'Organic Products' on the basis of NPO 'Kazakh Agrotechnical Research University named after S.Seifullin' (Astana, the Republic of Kazakhstan).

12. IAAR Expert - Sheripidin Itahunovich Khamraev, Candidate of Technical Sciences, Professor, Kazakh National Pedagogical University named after S. Seifullin (Almaty, Republic of Kazakhstan). Abay (Almaty, Republic of Kazakhstan). 13.

13. IAAR Expert-Employer - Dana Bakiranova Yeralieva, Head of Human Capital Development Department, RPP of Zhambyl region (Taraz, Republic of Kazakhstan).

(III) REPRESENTATION OF AN EDUCATIONAL ORGANIZATION

NPO "M.Kh.Dulaty Taraz Regional University» is the largest multidisciplinary university in Kazakhstan, is the center of education, science and culture of one of the country's regions, established in 2020. in accordance with the Decree of the Government of the Republic of Kazakhstan "On certain issues of higher educational institutions of the Ministry of Education and Science of the Republic of Kazakhstan" dated October 11, 2019 No. 752 (Item 5) and Order of the Ministry of Finance of the Republic of Kazakhstan No. 346 dated 03.06.2020. Training of personnel at the university is carried out in accordance with the Charter of the university and the State License for engaging in educational activities in the field of higher and postgraduate professional education. No. KZ19LAA00018483 dated 27.07.2020.

The University provides training in 103 Bachelor's degree programs, 61 master's degree programs and 9 doctoral programs in such fields as Humanities, Journalism and Information, Business and Management, Law, Biological and Related Sciences, Environment, Physical and Chemical Sciences, Mathematics and Statistics, Information and Communication Technologies, Engineering and Engineering, Manufacturing manufacturing industries, Standardization, certification, and metrology (by industry), etc.

The University has over 13,000 students. More than 1,000 teachers are involved in the educational process, including 336 people-doctors, candidates of sciences and PhD students.

The Department of Chemistry and Chemical Technology of M.Kh.Dulaty Taraz Regional University one of the oldest in the university. The department employs highly qualified scientists, doctors and candidates of technical sciences.

The main task of the department is to train highly professional specialists in the field of chemistry and chemical technology. To achieve this goal, the teaching staff of the department strives not only to take into account and support fundamental directions in teaching and research, but also to introduce all modern technologies and innovations in the taught areas into the educational process.

The overall mission of the educational programs is to train qualified specialists in the fields taught that meet modern domestic and international criteria, as well as to create a scientific, intellectual, informational and cultural environment in the Zhambyl region. The goals of the SP correspond to the interests of consumers of educational services and are designed to ensure the expected level of professional training of graduates. For this purpose, the development plan and goals of the SP are drawn up with the involvement of all interested parties: employers, students, teachers and employees.

The objectives of the SP are implemented in the context of a quality culture at the university, which determines the training of highly competent personnel. Graduate departments in their activities strive to guarantee and provide high quality educational services through modern training technologies, the development of international cooperation.

The quality policy was approved by the Chairman of the Board – Rector of M.Kh.Dulaty Taraz Regional University on August 27, 2021, by the decision of the Academic Council of the University on September 27, 2023, Protocol No. 1, Quality Goals were approved and posted on the university's website.

Employers, trainees, and teaching staff participate in the development of SP development plans by joining EP development working groups.

Identification of risks to the effectiveness of the implementation of the development plan of the SP is based on SWOT analysis and is carried out by the SP management. To reduce the risk, the university takes a number of career guidance measures. Resources for the implementation of the SP are the material and technical base of the university, academic staff and practice bases.

Transparency of the educational program management system is carried out through informing the teaching staff, employees, students and other interested parties in the following ways: posting information on information stands, the university's Internet portal; explaining the

plan, goals and objectives when instructing newly admitted employees, teachers, during curatorial hours for students, holding meetings and round tables with employers.

The internal system for ensuring the quality of educational programs includes the following processes: development and publication of expected learning outcomes, monitoring of students ' progress and achievements, periodic analysis and adjustment of the content of the SP, official procedures for approving programs by higher-level organizations, external checks of program implementation on a regular basis, internal checks of program implementation on a regular basis, interaction with consumers, employers and other stakeholders on an ongoing basis.

(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

Study programs 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes are accredited in the IAAR for the first time.

In accordance with Order No. 110-19-od of 22.10.2019. From November 28 to 30, 2019, an external expert commission evaluated the compliance of educational programs 6B05314 Chemistry, 7M05311 Chemistry of M.Kh. Dulaty Taraz State University named after with the IAAR standards of specialized accreditation (No. 10-17-SD dated February 24, 2017, fifth edition).

Composition of the previous EEC at M. Kh. Dulaty University (2019):
1. **Chairman of the Commission**-Gulnara Bayanovna Turtkarayeva, Candidate of Pedagogical Sciences, Associate Professor, Sh. Sh. Kokshetau State University Ualikhanov (Kokshetau);
2. **Foreign expert** – Ignacio Menéndez Pidal de Navascués, Professor, Doctor in Civil Engineering, Polytechnic University of Madrid (Madrid, Spain);
3. **Foreign expert**-Livia Nistor-Lopatenco, Ph. D. in Engineering, Dean of the Faculty Constructions, Geodesy and Cadastre, Technical University of Moldova (,Republic);
4. **Expert**-Ismailova Guzal Amitovna, PhD, ass. prof., Al-Farabi, Kazakh national University . (Almaty);
5. **Expert**-KalymovaKulziyaKrashevna, PhD, Eurasian National University named after L. Gumilyov (Nur-Sultan);
6. **Expert** – Shaikenova Kymbat Hamitovna, Candidate of Agricultural Sciences, Associate Professor, S. Seifullin Kazakh Agrotechnical University (Nur-Sultan);
7. **Expert** – Aldungarova Aliya Kairatovna, PhD, ass. Prof., S.Toraigyrov, PavodarState University, (Pavlodar);
8. **Expert** –Idrisheva Zhanat Kabylbekovna, Candidate of Technical Sciences, D. Serikbayev East Kazakhstan State Technical University (Ust-Kamenogorsk);
9. **Expert**-Mursalimova Elmiraaskarovna, Candidate of Biological Sciences, Associate Professor, Kazakh National Agrarian University (Almaty);
10. **Expert**-Khamraev Sheripidinitakhunovich, Candidate of Technical Sciences, Professor, Kazakh National Pedagogical University named after Abai (Almaty);
11. **Expert**-Bulashevberdibekkabkenovich, Candidate of Agricultural Sciences, Associate Professor, S. Seifullin Kazakh Agrotechnical University (Nur-Sultan);
12. **Expert**-Elena A. Abenova, PhD, Associate Professor, Narkhoz University (Almaty);
13. **Expert** - Sarsenova Lazzat Kadirgalievna, Candidate of Biological Sciences, Al-Farabi Kazakh National University (Almaty);
14. **Expert**-Kopisheveldarertaevich, Candidate of Chemical Sciences, Acting Associate Professor, L. N. Gumilyov Eurasian National University (Nur-Sultan);
15. **Employer**-Akchalova Aigul Sagimbekovna, head of IP "Akchalova", Restaurant "Marrakech", "Piala", "Monterey" (Taraz);
16. **Employer**-Ukasovaaidakhalilovna, Head of Rakhimov LLC (Taraz);

17. **Student**-Bitenova Ayana Bakytkyzy, 2nd year student of OP "5B080110 - Protection of plant quarantine", Taraz Innovation and Humanities University(Taraz);

18. **Student**-Adilbek Kudaibergen Nazymbekuly, 4th year student of the OP 5B070400-Вычислительная техника и программное обеспечение,Таразский инновационно-гуманитарный университет(г. Тараз)

19.**Студент**–Құдайбергенова Жәмила Серікбайқызы,студент4курсаОП "5B011200-Chemistry", Taraz State Pedagogical University (Taraz);

20. **Student**-Umiralkhanov Azizkhan Nazazhkhanuly, 4th year student of OP "5B010900MATHEMATICS", Taraz State Pedagogical University(Taraz);

21. **The Agency's observer** is Timur Kanapyanov, PhD, Head of International Projects and Public Relations at the National Academy of Sciences (Nur-Sultan).

Recommendations to the university under the previous accreditation procedure for educational programs 6B05314 Chemistry, 7M05311 Chemistry (2019):

Educational Program Management Standard

1. Provide indicators and criteria for evaluating effectiveness in the development plans of the SP, specify the deadlines for execution by the stages of implementation of the plan;

2. Include representatives of employers, graduates and students in the collective management bodies of the EE, take measures to expand their range and ensure their representativeness when making decisions on the EE.

3. Provide for training of the SP management on educational management issues on a regular basis.

Standard "Information Managementreporting"

1. To ensure the involvement of students in the IPP process of selecting and analyzing information using ICTs for developing and further managing the development of IP, making decisions based on them(for example, Focus Group Work protocols, electronic questionnaires, etc.).

Standard "Development and approval of an Educational Program"

1. Continue working to expand multilingual groups in accredited educational institutions, apply new teaching methods and technologies to improve the quality of students ' language competencies.

2. Create conditions for training students for professional certification.

3. Consider the issue of harmonization of educational programs with the leading universities of the Republic of Kazakhstan that implement such programs and continue working on the development of joint programs with universities of near and far abroad

4. Bring the content of the MOE and the "Graduate Model..." in terms of describing the areas and types of professional activities, graduate competencies, show the influence of disciplines and professional practices on the formation of RO and their compliance with goals.

Standard "Constant monitoring and Periodic Evaluation of Educational Programs"

Systematically carry out work on timely informing all stakeholders about changes in the relevant SP in publicly accessible sections of the university's website.

Standard "Student-centered Learning, teachingand Success Assessment"

1. Provide for an assessment of the effectiveness of innovation implementation based on the criteria for improving the quality of training/achieving learning outcomes;

2. Introduce new assessment technologies and methods in accordance with the learning outcomes and program objectives. To provide in the plan of development of the SP training of teaching staff on modern methods of assessment of scientific and practical skills, competencies of graduates;

3. Provide for systematic explanatory work among students on the principles of credit technology of training and the role of self-learning.

Standard "Students"

1. Develop an action plan to expand the external and internal mobility of students and teaching staff, to attract foreign scientists to conduct joint research and conduct special disciplines.with the definition of measurable indicators.

2. Activate the work of the University Alumni Association, ensure coordination of its activities for more active participation in the development and management of the SP, promote employment of graduates, etc. Update the corresponding section on the site.

Standard "Teaching staff"

1. Ensure the active use of ICT teaching staff in the educational process (e-portfolio, on-line training, on-line courses from domestic and foreign information sources).

2. Consider the possibility of internships for teaching staff and program managers in other educational organizations that implement similar programs.

3. Ensure systematic professional development of teaching staff

4. Analyze the publication activity of all teaching staff and develop measures to improve qualitative and quantitative indicators

5. Strengthen efforts to improve the level of English proficiency.

6. Reduce bureaucratic formalities and coordination procedures with the university management to attract practitioners to teach

Additionally for SP 6B05112-General Biology, 7M05111-General Biology, SP 7M05211 - Geoecology and Environmental Management, 6B05314, 7M05311 Chemistry:

7. Develop a program for the development of joint projects with enterprises and specialized organizations to encourage research.

8. Include in the staff of the department teachers who have long-term experience in enterprises in the field of OP specializations.

Standard "Educational Resources And Student Support Systems"

1. Continue work on the installation of ramps for people with disabilities, guide markings and color-coded signs and signs for visually impaired students and employees in the university buildings.

2. Continue working to cover individual academic buildings with Wi-Fi, strengthen the signal and increase the bandwidth in the existing coverage area.

Public Awareness Standard

1. Provide publications in the relevant sections of the university website of up-to-date information on the EE, including: learning outcomes, teachers 'personalities; updating information on educational programs and graduate models in the "Entrant" section, informing the public about the implementation of the EE in three languages, Plans for the development of the EE, an electronic portfolio of teaching staff, results of external assessment and rating procedures.

2. Ensure that the public is informed about the implementation of the SP on the University's website in the state, Russian and English languages.

Standardspecialtyspecialties-Naturalsciences

1.   1.Expand the base of practices and branches of departments in the field of training in accordance with the required criteria.

On December 20decision of the NAAR Accreditation Council, the educational programs 6B05314 Chemistry, 7M05311 Chemistry implemented by M. Kh. Dulaty were accredited for

To implement the recommendations, the university developed an action plan approved on January 14, 2020. The results of the planned activities are reflected in the interim reports of M. Kh. Dulaty TarRU

Post-monitoring control to assess the implementation of the recommendations of the IAAR EEC formed based on the results of specialized accreditation of educational programs 6B05314 Chemistry, 7M05311 Chemistry was conducted at the M. Kh. Dulaty TarRU on February 7, 2022 (Stage 1) and January 10, 2024 (Stage 2). Post-accreditation monitoring of the activities of TarRU was carried out within the framework of the action plan for implementing the recommendations of the EEC and was carried out in accordance with the requirements of the regulation on conducting post-accreditation monitoring.

P ostaccreditation monitoring of the activity of M. Kh. Dulaty TarRU showed that in general, the recommendations of these EEC are being implemented, with the exception of some recommendations.

At the same time, the members of the EEC who conducted reaccreditation *from May 23 to May 25, 2024 established* that the following work was carried out on the recommendations of the previous EEC:

According to the SP "Chemistry", the management of the SP includes employers and students in the working groups for the development of the SP Plan. The head of the Department of Chemistry and Chemical Technology completed courses on educational management, received and provided certificates. Students and teaching staff are involved in the process of collecting and analyzing information on the satisfaction of the SP through an electronic questionnaire and discussing the results at the meetings of the department. Updated, approved and published on the website "Graduate Model" for accredited SP. Students of SP Chemistry regularly participate in the academic mobility program (in the 2022-2023 academic year, 3rd-year students of Kali G.A. (Adam Mickiewicz University, Poland); Kanatbek U.G. (Adam Mickiewicz University, Poland); Akhmetzhanova A. S. (Zlin Tomasz Bati University Czech Republic); Nurmakhanova A. S. (University of Huelba, Spain). Teaching staff and SP managers also undergo internships (in 2022, the PhD teacher of the department Kalmakhanova M. S. completed internships in Uzbekistan, Kyrgyzstan, and the United States at the University of Nebraska). The University regularly conducts advanced training courses for teaching staff. In addition, practitioners with extensive work experience in production are involved in teaching some SP disciplines (Mateeva S. Z., Zhumanov K.).

However, despite the set of measures taken, the EEC members noted that some of the recommendations were partially implemented. For example, during the meeting with graduates, there was a lack of activity in the work of the Alumni Association; there are no groups studying in English; the department did not provide a program for developing joint projects with enterprises and specialized organizations to stimulate research, as evidenced by the low rate of participation of teaching staff in competitions for grant funding and a decrease in publication activity.

The EEC members state that the recommendations on the standards "Educational program management", "Information management and reporting", "Continuous monitoring and periodic evaluation of educational programs", "Student-centered learning, teaching and evaluation of academic performance"," Educational resources and student support systems "are fully implemented, according to the standards" Development and approval of the educational program", "Students"," Teaching staff"," Public awareness " were partially completed.

(V) DESCRIPTION OF THE EC SESSION

The work of the EEC was carried out on the basisapprovedVisit Program of the expert Commission for specialized accreditation of educational programs of Taraz Regional University in the period from23to 252024.

In order to coordinate the work of the EEC, an schedule was clarified, and agreement was reached on the of examination methods.

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

Table 1-Information about employees and trainees who participated inmeetings with the IAAR EEC:

Category of participants	Quantity
Rector	1

Vice-Rector's Office	4
Heads of structural divisions	27
Deans	1
Heads of departments	6
Teachers	13
Students, undergraduates, doctoral students	13
Graduates	16
Employers	4
Total	**85**

During visual inspection EEC members got acquainted with the state of the material and technical base, visited the Laboratory of Spectrophotometry, the Laboratory of Infrared Spectroscopy, the Chromatographic Laboratory, the Laboratory of Atomic Emission Spectrometry, the Laboratory of "Water Purification and Materials", the Laboratories of Analytical Chemistry, chemistry of high-molecular compounds, colloidal chemistry, technology of inorganic compounds, organic chemistry, mineral fertilizers, Department of Inorganic Chemistry, Lecture Hall named after D.Professor Sakha Musylmanbek, computer and lecture halls, conference hall.

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

EEC members visited the practice bases of accredited programs: Kazakh Scientific Research Institute of Water Management LLP.

According to the program of the visit, classes were not held in accredited educational institutions according to the approved schedule.

In accordance with the accreditation procedure, 13 teachers and 15 students, including junior and senior students, were interviewed.

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

Within the framework of the planned program, recommendations for improving the accredited educational programs of M. Kh. Dulaty, Taraz Regional University, developed by the EEC based on the results of the expert examination, were presented at a meeting with the management on 25.05.2024.

(VI) COMPLIANCE WITH SPECIALIZED ACCREDITATION STANDARDS

6.1. Educational Program Management Standard

✓ The university should demonstrate the development of the goal and strategy for the development of the SP based on the analysis of external and internal factors with a wide involvement of various stakeholders.

✓ A quality assurance policy should reflect the relationship between research, teaching, and learning.

✓ The university demonstrates the development of a quality assurance culture.

✓ Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint/two-degree education and academic mobility.

✓ The SP management ensures transparency in the development of the SP development plan based on an analysis of its functioning, the actual positioning of the university and the focus of its activities on meeting the needs of students, the state, employers and other interested parties.

✓ The SP management demonstrates the functioning of mechanisms for forming and regularly reviewing the SP development plan and monitoring its implementation, evaluating the achievement of training goals, meeting the needs of students, employers and society, and making decisions aimed at continuous improvement of the SP.

✓ The SP management should involve representatives of groups of stakeholders, including employers, trainees and teaching staff, in the formation of the EP development plan.

✓ The SP management should demonstrate the individuality and uniqueness of the SP development plan, its consistency with national development priorities and the development strategy of the educational organization.

✓ The university must demonstrate a clear definition of those responsible for business processes within the framework of the SP, the distribution of job responsibilities of personnel, and the division of functions of collegial bodies.

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

✓ *The SP management should ensure the transparency of the management system, the functioning of the internal quality assurance system, including its design, management and monitoring, and the adoption of appropriate decisions.*

✓ *The management of the SP should manage risks.*

✓ *The SP management should ensure the participation of representatives of interested parties (employers, teaching staff, and 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.*

✓ *The university must demonstrate innovation management within the framework of the SP, including the analysis and implementation of innovative proposals.*

✓ *The SP management should demonstrate its openness and accessibility to students, teaching staff, employers, and other interested parties.*

✓ *The SP management confirms the completion of training in educational management programs.*

✓ *The SP management should strive to ensure that progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.*

Proof part

NPO " M.Kh. Dulaty, Taraz Regional University" in its development is guided by the University Development Program for 2023-2029, approved by the Board of Directors.

The objectives of SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processesare to train highly qualified personnel who are competitive in the global chemical technology market with creative thinking, have leadership qualities, successfully solve professional problems, are ready for constant innovation, and actively participate in the development of the region.

The development of the goal and strategy for the development of SP in the university is carried out on the basis of an analysis of changes in the internal and external environment, which includes an annual set of events at the faculty and departments to implement the President's addresses of the Republic of Kazakhstan, an annual analysis of the projected number of university graduates and potential applicants, an analysis of the labor market demand for specialists in the region and the republic, and a constant determination of employers ' requirements professional competencies in the design of educational programs, annual analysis and implementation of the recommendations of the SAC chairmen on improving the educational process, assessment of the effectiveness of changes, analysis of employers 'proposals for training specialists in the course of students' professional practice.

The quality assurance policy is defined by the university's mission, strategic development plan, goals and objectives of the university and is aimed at ensuring high quality of educational services and research. The quality management system that meets the requirements of MS ISO 9001:2015 is a tool for implementing the quality policy. The concept of quality in university education is publicly available: university website https://dulaty.kz/ru/, as well as stands of departments and faculties, in libraries, in the offices of service managers, in educational buildings of the university.

The University's quality assurance policy, which prioritizes commitment to continuous improvement of all processes defined in the university, is aimed at developing a culture of quality assurance. For the period 2019-2024, the following measures were implemented:

-the document PD 3.09-2023 "Rules of academic integrity of teachers, employees and students of the University" is in force;

- there is a university museum that promotes cultural and historical values, and introduces the history of the formation and development of the university;

- traditional competitions are held that promote the growth of professional competence, responsibility, self-organization and self-development of the individual: Knowledge Day, Children's Day, Day of Unity of the People of Kazakhstan, "Zhas talent", "Az-Nauryz", "TarMUAruy", etc.;

- round tables, seminars, meetings, debates and debates are organized on various issues of ethics, law and order, morality and the formation of a healthy lifestyle in order to educate a fully developed young generation;

- there is a curatorial school that provides guidance and coordination of educational work;

- group advisors conduct collective and individual work with students in different dimensions of student life.

Students of the university have the opportunity to continue their studies in the master's and doctoral programs in the end – to – end SP bachelor's – master's – doctoral programs in the direction of 053-Physical and Chemical Sciences and 071-Engineering and Engineering.

Customer satisfaction with educational services is an indicator of the quality of educational programs implemented. Assessment of satisfaction with quality assurance in the framework of the SP is used as a systematic process for identifying the most problematic areas in the implementation of the program, analyzing the dynamics of certain indicators of the functioning of the educational concept and constant monitoring for subsequent analysis, correction and forecasting.

Internal audit plays a key role in maintaining and improving the effectiveness of the quality assurance system at the university. Processes such as corrective and preventive actions and management by senior management contribute to the continuous improvement of existing quality system processes. Measures to organize an internal audit in accordance with the internal regulatory documents (STU 03-2020 "Internal audits") are planned. Based on the Plan for conducting internal audits or the order/order of the rector/vice-rector, internal audits of educational, methodological and other documentation of the university are conducted, the results of which are submitted to the meeting of the Academic Council for collective discussion and decision-making, development of decisions to improve work by type of activity. Based on the results of the audit, the head of the audited division develops corrective actions (in accordance with STU 05-2020 "Corrective actions") aimed at preventing the possibility of identified inconsistencies in the future. The effectiveness of corrective actions is checked by the head of the department, auditors and experts of the next audit.

Planning, management and implementation of educational programs at the University is carried out in accordance with the regulatory documents of the Republic of Kazakhstan and the Ministry of Education and Science of the Republic of Kazakhstan, the Mission and strategic goals of the University's development, and plans for the development of educational programs. Elements of the quality assurance system of the educational program during its implementation are the creation of a system of continuous (internal) monitoring of the activities of all participants in the educational process, which implements the function of monitoring the achievement of the goals of the educational program at all stages of the functioning of the educational program; external evaluation of the program with the participation of various stakeholders; organization of an independent assessment of graduates ' qualifications. The program is adjusted based on the results of the implemented procedures for evaluating its quality based on systematic work on collecting and analyzing information about its own activities. At the meetings of the departments, an analysis of the conduct of inter-visited and open classes using modern educational technologies is carried out, practical results of teacher training are discussed, the current academic performance of students and the results of internships are analyzed, and issues of conducting consultations for underperforming students are considered. During the survey "Teacher through the eyes of students", "Student satisfaction with the quality of education", "Assessment of the quality of the educational program by graduates" and other social surveys of students and employers, it is possible to identify the satisfaction of students and undergraduates with educational programs, the effectiveness of teaching, the level of demand for graduates in the labor market.

The development plan for the development of the university's educational program is based on an analysis of the functioning of the educational program, the actual positioning of the university, as well as taking into account the personnel and scientific potential of the university's departments, the demand for specialists in this profile in the region, as well as many years of experience in educational activities of the University in domestic and international practice.

The implementation of the program development plan is based on the following principles: identification of the program's demand, resource availability, compliance with the program profile of learning outcomes in terms of competencies, compliance of training methods, corresponding to the program goals.

The quality of implementation of the SP development plan is carried out on the basis of semi-annual and annual reports of teaching staff, activities of departments in the main areas: educational, educational-methodical, scientific, educational. Control over the implementation of programs according to the development plan is carried out at several management levels — the head of the department, the dean of the faculty, heads of structural divisions, vice-rectors in the field of activity, the rector of the university.

The transparency and collegiality of the processes of forming the SP development plan is confirmed by the participation of the entire team, students, interested parties, and employers in it. This is evidenced by their participation in the activities of the Academic Council, Academic Council, meetings of the department, as well as in working groups on the development of the SP.

The following indicators can be attributed to the uniqueness of accredited ops:

- proximity of large mineral deposits in the Zhambyl region;
- intensive development and modernization of mineral fertilizer production facilities;
- involvement of leading specialists of chemical companies in the Southern region of Kazakhstan for the implementation of SP;
- the possibility of attracting leading specialists of chemical industries for the implementation of SP;
- the ability to form your own educational trajectory by independently choosing special disciplines for in-depth training in a particular area of the chosen direction of education;
- the possibility of attracting foreign scientists and professors in accordance with the concluded cooperation agreements with leading universities of the far and near abroad;
- the prospect of employment of SP graduates at enterprises of the Zhambyl region and the southern region of the country;
- the possibility of studying at all levels of education in this area (bachelor's, master's and doctoral studies).

For the implementation of educational programs, there are modern educational and laboratory equipment provided with various types of tasks, as well as software products that allow you to perform the corresponding tasks of educational programs. The SP management conducts systematic work on the material and technical support of the educational process. Language classes are held in language rooms. The university has sufficient information, telecommunications and library resources.

The main processes (educational, research, educational, financial and economic management) through which the management of the university's activities is implemented are interrelated and detail the stages of planning, monitoring, and taking corrective actions. The university uses systems of long - term, medium-term and short-term planning, the results of which are recorded, discussed collectively and communicated to interested parties, the university staff. Long-term planning is reflected in the Development Program of M.Kh. Dulaty, Taraz Regional University for 2023-2029, contains priorities, goals and objectives to achieve the stated mission of the university. The mechanisms for implementing all the main processes, including the management of educational activities, are described in internal regulatory documents: PD 3-1. 01-2022 "Academic policy of M.Kh. Dulaty, Taraz Regional University", PD 3-1. 03-2022 "Regulations for educational and methodical work", PD 3-1. 09-2022 "Regulations for the educational process".

The forms of collegial governance of the university based on transparency and collegiality are the Board of Directors, Academic Council, Rectorate, Academic Council, Scientific and Technical Council, Council of Heads of Departments of the University, Councils of faculties.

The transparency of the university management system is confirmed by the participation of the university staff, student representatives, and the Chairman of the Youth Committee, who are members of the Academic Council.

All employees of the university have a clearly defined range of obligations and rights, which are reflected in the Regulations on departments and job descriptions. Job descriptions are designed for specific positions, which eliminates duplication of responsibilities and rights and contain

qualification requirements for education, work experience,and special knowledge. When changing the staff structure, the relevant order determines the need to review job descriptions and regulations. The activities of the University and its structural divisions are regulated by the document PD 7-3. 01-2022 "Internal Regulations". Standards of professional behavior of teachers and employees, business ethics in relations with students and colleagues are defined in PD 3.09. -2023 "Rules of academic integrity of teachers, employees and students of the University". The rules establish uniform requirements for students from the moment of enrollment to the moment of completion of their studies at the university. QMS documents, as well as internal regulatory and methodological documents of the university used in managing the university's activities, are posted on the university-wide electronic information network, on the university's website and distributed on paper in structural divisions.

Transparency of the educational program management system is carried out through informing the teaching staff, employees, students and other interested parties in the following ways: posting information on information stands, the university's Internet portal; explaining the plan, goals and objectives when instructing newly admitted employees, teachers, during curatorial hours for students, holding meetings and round tables with employers.

At the level of departments, the following types of control are carried out: discussion and approval of materials on educational and methodological support in accordance with regulatory requirements; quality control of training sessions in the format of mutual visits of classroom classes and open classes; organization and conduct of all types of practices; implementation of educational, methodological, scientific and educational work of teaching staff, adopted in individual plans teachers 'work acceptance of annual reports of teaching staff; annual professional development of teachers; analysis of the results of rating (current, intermediate) control of students' knowledge, results of exam sessions in the context of SP courses and disciplines, technical equipment of educational laboratories; examination of the quality of drawing up test tasks and other forms of control of students ' knowledge during the exam session.

The local information network "Public" has been created and successfully operates for the exchange of information between structural divisions.

Dulaty University has also implemented and operates systems for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools: academic information management within the framework of AIS "Platonus", an integrated library information system. Students, faculty of the department and employers are involved in the processes of collecting and analyzing information through questionnaires, interviews and making decisions based on them during the meetings of the department.

The content of educational programs is established by the relevant state educational standards (state mandatory standards of education) and implemented through curricula and programs. Curricula are developed in three forms:: 1) standard curricula (TCP); 2) working curricula (WCP); 3) individual curricula (ICP).

The collegial body that considers the development of educational programs at the university level is the Board of Directors, the Rector's Office, the Academic Council, the Academic Council, at the faculty level – the faculty council, the quality assurance commission. Representatives of interested parties participate through the Board of Directors, Academic Council, Academic Council, and Quality Assurance Commission.

The results of research work and innovative teaching technologies are introduced into the educational process of the university. To implement modern methods of student-centered approach in the educational process, innovative teaching tools are used, including multimedia technologies. In order to provide support to the university's teaching staff, the university has a technical support and IT technology center.

The material and technical base of the university meets the qualification requirements for accredited educational programs. The university has created a learning environment that includes computer equipment, software products, computer classes, reading rooms, a book fund, a fund of educational digital materials, etc. Issues of purchasing modern equipment are regularly considered

at a meeting of the department and transferred to the public procurement department for analysis and inclusion in the purchase plan.

УThe university has various indoor and outdoor sports facilities, which include 3 indoor sports halls with a total area of 1423 sq. m. and 7 outdoor sports complexes with an area of 36952.9 sq. m.

The university has five dormitories with a total area of 25598.16 sq. m. For catering, there are 2 canteens in the technological building with 80 seats, 2 canteens in the hydro complex with 60 seats. Medical care for employees and students is provided by the health center located in the technological building of the university and the city polyclinic No. 5.

A scientific laboratory "Water Purification and Materials" was opened at the Department of Chemistry and Chemical Technology. The laboratory was created based on the results of a competition for grant funding of scientific and technical projects based on the project "Identification and treatment of hazardous pollutants in wastewater from urban wastewater treatment plants in Kazakhstan" for 34 months.

Management training for Dulaty University is directly related to the quality of management, the effectiveness of the university's work and the level of its competitiveness. The role of executive training related to management activities is particularly increasing. Training and professional development of senior staff clearly define the following main areas: specific definition of goals and strategies of the university; methods of making effective management decisions; management theories and methods of working with subordinates; study of social aspects of management. So, the head of the Department of Chemistry and Chemical Technology PhD Kalmakhanova M. S. worked as a visiting professor during a scientific internship in a number of universities abroad: Polytechnic Institute of Braganza (Portugal), Complutens University (Spain), Rey Juan Carlos University (Spain). Teachers of the department Sadieva Kh. R., Badanova R. R., Kantarbayeva S. M., Kulazhanova A. S., Kulbaeva D. A., Shinibekova A. A., Daurenbek M. A. Teachers of the department Murzakasymova N. S., Altynbekova D. T., Baibazarova E. A. were trained at the courses "Fundamentals of the QuantWorks electronic document management system".Modern IT competencies of teachers: digital transformation and distance technologies in education". Also, M. A. Daurenbek was trained at the courses "Library and information support and higher education". Shinibekova A. A. completed advanced training courses "Curatorial School". The university management continuously participates in educational management programs for further improvement (head of the department Kalmakhanova M. S. completed advanced training courses on the topic: "Management in education" in the amount of 72 hours). In order to control the quality of work of all departments and perform the established functions, relevant documentation has been developed and implemented based on the requirements of the quality management system. A career and professional development center has been established at the University to teach modern management methods and introduce innovations.

Analytical part

"The concept of the quality assurance system in education at Taraz Regional University named after M. H. Dulati", approved by the Academic Council of Pr. No. 11 dated 04.05.2023, is the main document of the university's quality system and provides the basis for developing and analyzing quality goals, which are updated annually along with the tasks of the team for the academic year. A university's quality system is a set of organizational structures, methodologies, processes, and resources required to implement a quality assurance policy through such means as quality planning, quality management, quality assurance, and quality improvement.

The university creates conditions for students ' access to educational, scientific, and informational databases, including international data sources placed in electronic libraries. The library stock and availability of educational literature on electronic and magnetic media meet the qualification requirements for licensing educational activities. Information and educational support of the OP is carried out with a consistent increase in the emphasis on independent work of students. There are sufficient resources and opportunities to create a healthy lifestyle for students.

In 2023, Dulaty University and QAZAQSODA LLP signed a memorandum on training personnel for this organization in order to implement the accredited training programs, as well as to expand the practice bases. On the basis of Dulaty University, a network educational campus was created with the participation of partners of Kazphosphate LLP and Uralchem UCC JSC. In accordance with the memorandum, it is planned to conduct internships and advanced training for students, undergraduates, doctoral students, applicants for academic degrees and teachers in Russia and Kazakhstan.

The analysis of the survey of students and teaching staff shows that, in general, the content, organization and implementation of the educational process within the framework of the SP meets expectations and requirements. There were no critical comments from students and teaching staff based on the results of the survey. However, during the meeting with trainees and employers, the EEC experts found that stakeholders were poorly aware of the updates to the SP, and that regular meetings and meetings of working groups on accredited SP were poorly attended by interested parties. Analysis of the development plans of the SP showed that there is no plan of the SP management to improve the quality culture, and risk management is poorly considered in the development plans of accredited SP. In addition, the EEC experts note that in all plans for the development of accredited educational institutions, the same person is indicated as an employer (manager for training and personnel development of Kazphosphate LLP - A.D. Mukanova). In turn, when analyzing extracts from meetings of the Department of Chemistry and Chemical Technology, among those who were present during the discussion of updating accredited educational institutions. SP no SP students were detected.

Despite the fact that the Department of Chemistry and Chemical Technology implements a number of scientific projects funded by the Ministry of Education and Science of the Republic of Kazakhstan, there are no projects for commercialization of the results of scientific and/or scientific and technical activities that are a logical continuation of completed scientific projects at the department.

As noted above, despite the set of measures taken, the EEC members noted that some of the recommendations made as a result of the previous accreditation procedure were partially implemented. For example, during the meeting with graduates, there was a lack of activity of the Alumni Association; there are no groups studying in English; the department did not provide a program for the development of contractual projects and projects for commercialization of research results with enterprises and specialized organizations to stimulate research, as evidenced by the low rate of participation of teaching staff in competitions for grant funding and activities.

Strengths/Best practicesin SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
not detected

Recommendations for OOP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
- The university management should develop a road map for improving the quality culture, including these measures in the development plan of the SP by 01.09.2024.
- The university management should conduct training of the SP management in the field of risk management, develop a plan of measures to reduce risks by 01.01.2025.
- To expand the number of trainees and employers involved in the formation of development plans for the SP by 01.09.2024.
- To develop a mechanism for commercializing scientific projects with the involvement of employers, to draw up a plan for their implementation in the process of implementing the EP by 01.01.2025.
- The management of the SP and the university should provide stable feedback to students and teaching staff regarding the management and development of the SP by 01.09.2024.

Дополнительные рAdditional recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry:

- Руководству The EP management should take into account the recommendations of the EEC when preparing for the next accreditation procedure.

WEC's conclusions based on the following criteria:

According to the standard "Educational program Management", educational programs 6B05314 "Chemistry", 7M05311 "Chemistry", 6B07115 "Chemical Engineering and Processes", 7M07112 "Chemical Engineering and Processes" have 17 criteria, of which 15 have a satisfactory position, 2-expectedimprovements.

6.2. Information Management and Reporting Standard

✓ *The university must demonstrate the development of a goal and strategy for the development of SP based on the analysis of external and internal The university must ensure the functioning of a system for collecting, analyzing and managing information based on modern information and communication technologies and software tools.*

✓ *The SP management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system.*

✓ *The SP management demonstrates the existence of a reporting system that reflects the activities of all structural divisions and departments within the EP, including an assessment of their performance.*

✓ *The university should determine the frequency, forms and methods of evaluating the management of the SP, the activities of collegial bodies and structural divisions, and top management.*

✓ *The university must demonstrate a mechanism for ensuring information security, including identifying those responsible for the accuracy and timeliness of information analysis and data provision.*

✓ *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.*

✓ *The SP management should demonstrate the existence of mechanisms for communication with students, employees, and other stakeholders, including conflict resolution.*

✓ *The university should measure the degree of satisfaction with the needs of students, teaching staff and staff within the framework of the SP and demonstrate evidence of addressing the identified shortcomings.*

✓ *The university should evaluate the effectiveness and efficiency of its activities in the context of SP.*

✓ *Information collected and analyzed by the university within the framework of the EP should take into account:*
  ✓ *key performance indicators;*
  ✓ *dynamics of the number of students in the context of forms and types;*
  ✓ *the level of academic performance, student achievements, and deductions;*
  ✓ *satisfaction of students with the implementation of the SP and the quality of education at the university;*
  ✓ *availability of educational resources and support systems for students;*
  ✓ *employment and career development of graduates.*

✓ *Students, teaching staff and staff must document their consent to the processing of personal data.*

✓ *The management of the SP should help to provide the necessary information in the relevant fields of science.*

Proof part

To automate the process of collecting, analyzing and managing information, the university has implemented and operates systems for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools: the official website of the university, a folder for exchanging information between structural divisions "Public", academic information management within the framework of AIS "Platonus" 6.0, an integrated information management system. library information system http://lib.dulaty.kz/index.php/kz/, the programs "1-C Enterprise" and "1-C Personnel accounting".

The university has identified those responsible for the functioning of information systems, software resources, and the accuracy of the information used: the press secretary of the university's Media Service; the director of the Project Management and Digitalization Center, the director of the technical support and IT support center, and the director of the Academic Work Department, the information support sector of the Platonus AIS.

The functioning of information systems for collecting, analyzing and managing information is regulated by PD 3-1. 01-2022 "Academic Policy of M.Kh.Dulaty, Taraz Regional University" (https://dulaty.kz/ru/education/academic-policy.html), which reflects the policy of ensuring openness and transparency.

To manage educational, educational, and financial processes, the main information flows are formed, which are categories: employees, students, and general information of the university. Information on the category "Employees" contains: personal data (AIS "Platonus": card file); information about employees - place of work, position held, name of the structural division,

academic and academic degree (AIS "Platonus": various administrative reporting forms, official website of the university: introductory information) ; information about disciplines (AIS "Platonus": formation of the WCP, ICP, planning of the academic load of the department); information on professional development – used for planning the passage of teaching staff of advanced training courses, as well as the formation of administrative reporting form No. 6 "Information on teacher training"; information on participation in research projects and projects- used for planning participation in professional development courses. Teaching staff in research and development, as well as for the formation of administrative reporting forms No. 18 "Information on teachers and / or researchers who have publications in scientific journals with an impact factor", No. 17 "Information on innovative activities through the integration of education and science based on the transfer of the result of scientific research into production "and No. 19" Information on income from the implementation of the results of research and development work".

Information on the category "Trainees" contains: personal data (AIS Platonus: card file, social portrait of the student); information about students-specialty, study group, form of payment, place of internship, course, language of instruction, social activity, provision of a hostel, employment (AIS Platonus: reports on the student population "Contingent of full-time students", "Contingent of undergraduates", "Contingent of doctoral students", "Information on the educational work of a higher educational institution", "Information on providing the university with dormitories", "Information on employment of university graduates", "Information on providing students with industrial practice bases", " Information on students students studying in technical specialties at the expense of employers and foreign investors"; information on registration for an academic discipline (AIS "Platonus": formation of an individual curriculum of a student, planning the teaching load of teaching staff, determining the profitability or unprofitability of study groups; information on academic achievements (AIS "Platonus: formation of the history of students' academic achievements for the entire year period of study, transcript and diploma supplement design, formation of administrative reports, information on academic mobility of the student AIS "Platonus: monitoring the dynamics of the number of students who took part in the exchange of students and quality indicators, formation of an administrative reporting form "Information on the exchange of students, undergraduates, doctoral students".

Information on the category "General information about the University" is presented in full on the official website of the university: information on academic buildings, sports facilities, contracts with employers to provide industrial practice bases, innovation activities, accreditation, international cooperation of the university, research work of the university, as well as various additional information.

Access to information in the Platonus AIS is provided only for an authorized user and is differentiated depending on the needs of users and the functional responsibilities of service personnel. The folder for information exchange between structural divisions "Public" is publicly accessible to all employees and teachers of the university. The analysis of information is carried out by methods of comparing indicators, the evaluation criteria for which are set out in the regulations on internal and departmental regulatory documents. The results of the analysis are reflected in certificates, reports of structural divisions of the university and provided to responsible persons for making decisions on improving the process. For example, the analysis of the session results is carried out by comparing them with the strategic indicators indicated in the university's strategy. Based on the results of the session analysis, the Academic Council of the University makes specific decisions, develops action plans to eliminate shortcomings, improve academic performance, and increase attendance.

Academic information is collected, analyzed, and managed by the Platonus AIS. Every year, work is carried out to modernize and improve the automated information system, aimed at processing information intended for subsequent operational and strategic use.

The management of educational programs places information about all aspects of development, formation, approval and implementation in the local information network " Public$". The established working groups for the development of educational programs work to familiarize

with certain issues that arise during the development, adjustment, introduction of additions and changes to the SP at meetings of the department and the Faculty Council. Invitations are sent to interested parties via corporate email. Placement of information about the SP and its development plan is carried out through information stands and the official website of the university.

For the security of Internet resources at the university, the "Regulation on Information Security of the Non-profit Joint-Stock Company Taraz Regional University" is used, approved by the decision of the Board of Directors of 20.08.2021, Pr. 6) posted on the university's website.

The Center for Technical Support and IT Support is guided in its work by the state program "Digital Kazakhstan".

The processed information based on reliable and accurate input data is then used to improve the internal quality assurance system through the use of quality policies, audit results, data analysis, corrective actions, and management review. For example, during the academic semester, the department conducts an analysis of current academic performance, which is compared with the accepted performance indicator of the university. In the event of a low academic performance, a corrective action plan is developed. Based on the results of the analysis of students ' current academic performance, decisions are made on the organization of additional classes, consultations, administrative measures to encourage or punish students. As one of the methods of analysis, the university uses rating analysis, the purpose of which is to stimulate the growth of qualifications, professionalism, productivity of pedagogical and scientific work, and the development of creative initiative of teachers. For example, every year the university conducts a rating assessment of the teaching staff of departments. The rating of a department consists of the rating of its teachers. The higher the rating of each teacher of the department, the higher the rating of the department, respectively, the head. The rating contributes to the implementation of an effective personnel policy, identification of individual abilities and professional skills, increasing responsibility for the assigned task at all levels, legal and social protection of teaching staff, heads of departments. The results of the rating analysis are used by the university management when making decisions on contract extensions, personnel appointments, and when determining the amount of salary allowances for teaching staff, department heads, and deans to their deputies.

The process of conducting an operational analysis of the existing information management system at the university is carried out in three stages. At the first stage, it is established what results have been achieved in the direction of this work for a certain period of time, for which the method of comparing the achieved results of work with data for a previous period of time or with the results of the main competing systems through primary and secondary information is used. At the second stage, the reasons for obtaining the available results of work in the considered aspect are clarified, as well as macroeconomic and microeconomic risks are assessed. In the process of the third and final stage of operational analysis, proposals are developed to improve and improve the university's information system.

The properties and characteristics of the information collected and processed are determined in accordance with the mission of the university and are aimed at finding the most effective and efficient methods and ways to improve the quality of educational and related services provided, as well as improve the level of social conditions of employees and students.

In order to improve the efficiency of employees ' work, the university's accreditation, rating and quality Assurance department conducts research on the internal corporate culture to study the degree of employee loyalty to management decisions, to reforms and changes taking place in the educational system. One of the most important criteria that determine the effectiveness of the university in all areas of its activity is staff satisfaction with work. The administration's assessment of various factors that determine staff satisfaction makes it possible to make the necessary adjustments in time when making managerial decisions, acting as a form of feedback between the university's management and staff.

The process of assessing student satisfaction requires the use of primary information collection methods – questionnaires ("Student satisfaction with university support", "Student satisfaction with learning outcomes", "Student satisfaction with creating conditions for personal

development and education"), testing ("Teacher through the eyes of students" through the Platonus AIS), observation (curators senior curator, deputy dean for educational work), survey, interviews that are conducted during the school year.

Up-to-date and objective information on the number and quality of implemented programs and qualifications is published on the official Internet resource of the University (https://dulaty.kz/ru/). All participants in the educational process and interested persons have the opportunity to address their questions to the rector through the "Rector's Blog" section and get an answer. Communication with students is carried out by publishing the necessary information and announcements on the University's website. The exchange of operational information between the university's structural divisions is carried out in the internal document management system "Documentolog". Each user's incoming and outgoing messages are displayed on their work page.

Information about the progress and results of research work of teaching staff and students of the university, about scientific ideas, innovative proposals and projects is reflected in the public folder "Public", on the website of the scientific journal of the University "Mechanics and Technologies" https://dulaty.kz/ru/nauka/scientific-journals-rus/item/2398, NIL engineering profile "Nanoengineering research methods named after A. S. Akhmetov" and, as a rule,, on the official website (https://dulaty.kz/ru/nauchnye-meropriyatiya.html).

Analytical part

The main information resource potential of the university is the library. The library's information capabilities are significantly expanded by participating in various library associations. Thus, the Dulati University Library is a member of the International Federation of Library Associations and Institutions IFLA, the Association of University Libraries of the Republic of Kazakhstan http://lib.dulaty.kz/index.php/kz/.

Official courses on full-time work in the Platonus system with the issuance of certificates were not conducted at the university. However, information about working in the system is provided as necessary in the form of presentations and videos.

The University collects and analyzes information to improve the internal quality assurance system, which is carried out through a monitoring system for the university's activities and the quality of education. Collection and analysis of information is regulated by the document STU 01-2020 "Management of documented information". To assess the university's performance, the quality management system of educational and scientific processes of the University is monitored, information on the results of work of university departments is used, and consumer satisfaction is assessed. However, an analysis of the documented procedures showed that there are no mechanisms for management to respond to the low level of satisfaction of stakeholders. So, despite the presence of the rector's blog on the university's website, where everyone can contact the management with their wishes and problems, there is no documented procedure for responding to complaints with the indication of responsible persons received by the rector's blog; the development plans of accredited educational institutions do not contain mechanisms for responding to the low degree of satisfaction of all interested parties.

Quality-related information systems of the university cover: students 'progress and academic performance; graduates' demand in the labor market; students ' satisfaction with educational programs; effectiveness and quality of teaching; student composition and its analysis; availability and cost of training resources; key performance indicators of the university. Effective decisions are made based on data and information analysis. For example, to discuss a document, use the public folder of the university's local communication ("Public$"). The document is presented as a draft, indicating the terms and results of its discussion. Then the structural unit that develops this document collects the processed information in the form of references and suggestions. After that, there is a review process in the collegial bodies of the university with the participation of managers and representatives of structural divisions (STU 06-2020 "Management analysis"). However, all the information described only applies to the period during which the training takes place. After studying, graduates have the opportunity to apply to the Career and Business Partnership Center.

The center's website provides summary information about the center, regulatory documents, and analytical data on graduate employment. However, the website does not provide information about events held by the center in the field of professional orientation of graduates of accredited educational institutions (job fairs, meetings with representatives of business structures, etc.).

In accordance with the Law of the Republic of Kazakhstan "On Personal Data", the university developed and approved STU 04-2020 "Personnel Management", which approved the list of personal data necessary and sufficient to perform the tasks performed, as well as the form of consent of the employee and student to collect and process their personal data. According to the Regulations, university employees and students give written consent to the collection and processing of their personal data, which is stored in the Department of organizational and personnel work and in the deans' offices, respectively. Reliability, accuracy and timeliness of input information is the basis for forming various forms of reporting. In this regard, according to the calendar of planned works of the university, as well as local plans of departments, faculties, and structural divisions, responsible executors provide the supervising vice-rector with information on the reliability of the data provided, which is confirmed by data from alternative sources: the number of employed graduates is compared with information from the State Social Policy Center; scientific inventions with patents; student achievements with exam sheets; information on databases to pass production internships with relevant contracts, etc.

Strengths/Best practices in SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:

Rating analysis is used as one of the key indicators of the effectiveness of teaching staff and the work of departments at the university, the purpose of which is to stimulate the growth of qualifications, professionalism, productivity of pedagogical and scientific work, and the development of creative initiative of teachers.

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:

- The university management should develop and implement regulations for answering questions in the rector's blog by 01.09.2024.

- The management of the SP and the university should develop an action plan to eliminate the shortcomings found as a result of assessing the degree of satisfaction of the needs of teaching staff, staff and students by 01.09.2024.

- The university management should plan to hold permanent meetings of representatives of the Career and Business Partnership Center at the faculties with students on employment issues until 01.09.2024.

WEC's conclusions based on the following criteria:

According to the standard "Educational program Management", educational programs 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and processes have 1 strong, 13 satisfactory positions, 3 positions suggest improvement.

6.1. Educational Program Management Standard

✓ *The university should demonstrate the development of the goal and strategy for the development of the SP based on the analysis of external and internal factors with a wide involvement of various stakeholders.*
✓ *A quality assurance policy should reflect the relationship between research, teaching, and learning.*
✓ *The university demonstrates the development of a quality assurance culture.*
✓ *Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint/two-degree education and academic mobility.*
✓ *The SP management ensures transparency in the development of the SP development plan based on an analysis of its functioning, the actual positioning of the university and the focus of its activities on meeting the needs of students, the state, employers and other interested parties.*

✓ The SP management demonstrates the functioning of mechanisms for forming and regularly reviewing the SP development plan and monitoring its implementation, evaluating the achievement of training goals, meeting the needs of students, employers and society, and making decisions aimed at continuous improvement of the SP.

✓ The SP management should involve representatives of groups of stakeholders, including employers, trainees and teaching staff, in the formation of the EP development plan.

✓ The SP management should demonstrate the individuality and uniqueness of the SP development plan, its consistency with national development priorities and the development strategy of the educational organization.

✓ The university must demonstrate a clear definition of those responsible for business processes within the framework of the SP, the distribution of job responsibilities of personnel, and the division of functions of collegial bodies.

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

✓ The EP management should ensure the transparency of the management system, the functioning of the internal quality assurance system, including its design, management and monitoring, and the adoption of appropriate decisions.

✓ The management of the SP should manage risks.

✓ The EP management 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.

✓ The university must demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals.

✓ The EP management should demonstrate its openness and accessibility to students, teaching staff, employers, and other interested parties.

✓ The SP management confirms the completion of training in educational management programs.

✓ The EP management should strive to ensure that progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.

Proof part

NPO " M.Kh.Dulaty, Taraz Regional University" in its development is guided by the University Development Program for 2023-2029, approved by the Board of Directors.

The objectives of SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processesare to train highly qualified personnel who are competitive in the global chemical technology market with creative thinking, have leadership qualities, successfully solve professional problems, are ready for constant innovation, and actively participate in the development of the region.

The development of the goal and strategy for the development of SP in the university is carried out on the basis of an analysis of changes in the internal and external environment, which includes an annual set of events at the faculty and departments to implement the President's addresses of the Republic of Kazakhstan, an annual analysis of the projected number of university graduates and potential applicants, an analysis of the labor market demand for specialists in the region and the republic, and a constant determination of employers ' requirements professional competencies in the design of educational programs, annual analysis and implementation of the recommendations of the SAC chairmen on improving the educational process, assessment of the effectiveness of changes, analysis of employers 'proposals for training specialists in the course of students' professional practice.

The quality assurance policy is defined by the university's mission, strategic development plan, goals and objectives of the university and is aimed at ensuring high quality of educational services and research. The quality management system that meets the requirements of MS ISO 9001:2015 is a tool for implementing the quality policy. The concept of quality in university education is publicly available: university website https://dulaty.kz/ru/, as well as stands of departments and faculties, in libraries, in the offices of service managers, in educational buildings of the university.

The University's quality assurance policy, which prioritizes commitment to continuous improvement of all processes defined in the university, is aimed at developing a culture of quality assurance. For the period 2019-2024, the following measures were implemented:

-the document PD 3.09-2023 "Rules of academic integrity of teachers, employees and students of the University" is in force;

- there is a university museum that promotes cultural and historical values, and introduces the history of the formation and development of the university;

- traditional competitions are held that promote the growth of professional competence, responsibility, self-organization and self-development of the individual: Knowledge Day,

Children's Day, Day of Unity of the People of Kazakhstan, "Zhas talent", "Az-Nauryz", "TarMUAruy", etc.;

- round tables, seminars, meetings, debates and debates are organized on various issues of ethics, law and order, morality and the formation of a healthy lifestyle in order to educate a fully developed young generation;

- there is a curatorial school that provides guidance and coordination of educational work;

- group advisors conduct collective and individual work with students in different dimensions of student life.

Students of the university have the opportunity to continue their studies in the master's and doctoral programs in the end – to – end SP bachelor's – master's – doctoral programs in the direction of 053-Physical and Chemical Sciences and 071-Engineering and Engineering.

Customer satisfaction with educational services is an indicator of the quality of educational programs implemented. Assessment of satisfaction with quality assurance in the framework of the EP is used as a systematic process for identifying the most problematic areas in the implementation of the program, analyzing the dynamics of certain indicators of the functioning of the educational concept and constant monitoring for subsequent analysis, correction and forecasting.

Internal audit plays a key role in maintaining and improving the effectiveness of the quality assurance system at the university. Processes such as corrective and preventive actions and management by senior management contribute to the continuous improvement of existing quality system processes. Measures to organize an internal audit in accordance with the internal regulatory documents (STU 03-2020 "Internal audits") are planned. Based on the Plan for conducting internal audits or the order/order of the rector/vice-rector, internal audits of educational, methodological and other documentation of the university are conducted, the results of which are submitted to the meeting of the Academic Council for collective discussion and decision-making, development of decisions to improve work by type of activity. Based on the results of the audit, the head of the audited division develops corrective actions (in accordance with STU 05-2020 "Corrective actions") aimed at preventing the possibility of identified inconsistencies in the future. The effectiveness of corrective actions is checked by the head of the department, auditors and experts of the next audit.

Planning, management and implementation of educational programs at the University is carried out in accordance with the regulatory documents of the Republic of Kazakhstan and the Ministry of Education and Science of the Republic of Kazakhstan, the Mission and strategic goals of the University's development, and plans for the development of educational programs. Elements of the quality assurance system of the educational program during its implementation are the creation of a system of continuous (internal) monitoring of the activities of all participants in the educational process, which implements the function of monitoring the achievement of the goals of the educational program at all stages of the functioning of the educational program; external evaluation of the program with the participation of various stakeholders; organization of an independent assessment of graduates ' qualifications. The program is adjusted based on the results of the implemented procedures for evaluating its quality based on systematic work on collecting and analyzing information about its own activities. At the meetings of the departments, an analysis of the conduct of inter-visited and open classes using modern educational technologies is carried out, practical results of teacher training are discussed, the current academic performance of students and the results of internships are analyzed, and issues of conducting consultations for underperforming students are considered. During the survey "Teacher through the eyes of students", "Student satisfaction with the quality of education", "Assessment of the quality of the educational program by graduates" and other social surveys of students and employers, it is possible to identify the satisfaction of students and undergraduates with educational programs, the effectiveness of teaching, the level of demand for graduates in the labor market.

The development plan for the development of the university's educational program is based on an analysis of the functioning of the educational program, the actual positioning of the university, as well as taking into account the personnel and scientific potential of the university's

departments, the demand for specialists in this profile in the region, as well as many years of experience in educational activities of the University in domestic and international practice.

The implementation of the program development plan is based on the following principles: identification of the program's demand, resource availability, compliance with the program profile of learning outcomes in terms of competencies, compliance of training methods, corresponding to the program goals.

The quality of implementation of the SP development plan is carried out on the basis of semi-annual and annual reports of teaching staff, activities of departments in the main areas: educational, educational-methodical, scientific, educational. Control over the implementation of programs according to the development plan is carried out at several management levels — the head of the department, the dean of the faculty, heads of structural divisions, vice-rectors in the field of activity, the rector of the university.

The transparency and collegiality of the processes of forming the SP development plan is confirmed by the participation of the entire team, students, interested parties, and employers in it. This is evidenced by their participation in the activities of the Academic Council, Academic Council, meetings of the department, as well as in working groups on the development of the SP.

The following indicators can be attributed to the uniqueness of accredited ops:

- proximity of large mineral deposits in the Zhambyl region;
- intensive development and modernization of mineral fertilizer production facilities;
- involvement of leading specialists of chemical companies in the Southern region of Kazakhstan for the implementation of SP;
- the possibility of attracting leading specialists of chemical industries for the implementation of SP;
- the ability to form your own educational trajectory by independently choosing special disciplines for in-depth training in a particular area of the chosen direction of education;
- the possibility of attracting foreign scientists and professors in accordance with the concluded cooperation agreements with leading universities of the far and near abroad;
- the prospect of employment of SP graduates at enterprises of the Zhambyl region and the southern region of the country;
- the possibility of studying at all levels of education in this area (bachelor's, master's and doctoral studies).

For the implementation of educational programs, there are modern educational and laboratory equipment provided with various types of tasks, as well as software products that allow you to perform the corresponding tasks of educational programs. The SP management conducts systematic work on the material and technical support of the educational process. Language classes are held in language rooms. The university has sufficient information, telecommunications and library resources.

The main processes (educational, research, educational, financial and economic management) through which the management of the university's activities is implemented are interrelated and detail the stages of planning, monitoring, and taking corrective actions. The university uses systems of long - term, medium-term and short-term planning, the results of which are recorded, discussed collectively and communicated to interested parties, the university staff. Long-term planning is reflected in the Development Program of M.Kh. Dulaty Taraz Regional University for 2023-2029, contains priorities, goals and objectives to achieve the stated mission of the university. The mechanisms for implementing all the main processes, including the management of educational activities, are described in internal regulatory documents: PD 3-1. 01-2022 "Academic policy of M.Kh. Dulaty Taraz Regional University", PD 3-1. 03-2022 "Regulations for educational and methodical work", PD 3-1. 09-2022 "Regulations for the educational process".

The forms of collegial governance of the university based on transparency and collegiality are the Board of Directors, Academic Council, Rectorate, Academic Council, Scientific and Technical Council, Council of Heads of Departments of the University, Councils of faculties.

The transparency of the university management system is confirmed by the participation of the university staff, student representatives, and the Chairman of the Youth Committee, who are members of the Academic Council.

All employees of the university have a clearly defined range of obligations and rights, which are reflected in the Regulations on departments and job descriptions. Job descriptions are designed for specific positions, which eliminates duplication of responsibilities and rights and contain qualification requirements for education, work experience,and special knowledge. When changing the staff structure, the relevant order determines the need to review job descriptions and regulations. The activities of the University and its structural divisions are regulated by the document PD 7-3. 01-2022 "Internal Regulations". Standards of professional behavior of teachers and employees, business ethics in relations with students and colleagues are defined in PD 3.09. - 2023 "Rules of academic integrity of teachers, employees and students of the University". The rules establish uniform requirements for students from the moment of enrollment to the moment of completion of their studies at the university. QMS documents, as well as internal regulatory and methodological documents of the university used in managing the university's activities, are posted on the university-wide electronic information network, on the university's website and distributed on paper in structural divisions.

Transparency of the educational program management system is carried out through informing the teaching staff, employees, students and other interested parties in the following ways: posting information on information stands, the university's Internet portal; explaining the plan, goals and objectives when instructing newly admitted employees, teachers, during curatorial hours for students, holding meetings and round tables with employers.

At the level of departments, the following types of control are carried out: discussion and approval of materials on educational and methodological support in accordance with regulatory requirements; quality control of training sessions in the format of mutual visits of classroom classes and open classes; organization and conduct of all types of practices; implementation of educational, methodological, scientific and educational work of teaching staff, adopted in individual plans teachers 'work acceptance of annual reports of teaching staff; annual professional development of teachers; analysis of the results of rating (current, intermediate) control of students' knowledge, results of exam sessions in the context of SP courses and disciplines, technical equipment of educational laboratories; examination of the quality of drawing up test tasks and other forms of control of students ' knowledge during the exam session.

The local information network "Public" has been created and successfully operates for the exchange of information between structural divisions.

Dulaty University has also implemented and operates systems for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools: academic information management within the framework of AIS "Platonus", an integrated library information system. Students, faculty of the department and employers are involved in the processes of collecting and analyzing information through questionnaires, interviews and making decisions based on them during the meetings of the department.

The content of educational programs is established by the relevant state educational standards (state mandatory standards of education) and implemented through curricula and programs. Curricula are developed in three forms:: 1) standard curricula (SC); 2) working curricula (WC); 3) individual curricula (IC).

The collegial body that considers the development of educational programs at the university level is the Board of Directors, the Rector's Office, the Academic Council, the Academic Council, at the faculty level – the faculty council, the quality assurance commission. Representatives of interested parties participate through the Board of Directors, Academic Council, Academic Council, and Quality Assurance Commission.

The results of research work and innovative teaching technologies are introduced into the educational process of the university. To implement modern methods of student-centered approach in the educational process, innovative teaching tools are used, including multimedia technologies.

In order to provide support to the university's teaching staff, the university has a technical support and IT technology center.

The material and technical base of the university meets the qualification requirements for accredited educational programs. The university has created a learning environment that includes computer equipment, software products, computer classes, reading rooms, a book fund, a fund of educational digital materials, etc. Issues of purchasing modern equipment are regularly considered at a meeting of the department and transferred to the public procurement department for analysis and inclusion in the purchase plan.

The university has various indoor and outdoor sports facilities, which include 3 indoor sports halls with a total area of 1423 sq. m. and 7 outdoor sports complexes with an area of 36952.9 sq. m.

The university has five dormitories with a total area of 25598.16 sq. m. For catering, there are 2 canteens in the technological building with 80 seats, 2 canteens in the hydro complex with 60 seats. Medical care for employees and students is provided by the health center located in the technological building of the university and the city polyclinic No. 5.

A scientific laboratory "Water Purification and Materials" was opened at the Department of Chemistry and Chemical Technology. The laboratory was created based on the results of a competition for grant funding of scientific and technical projects based on the project "Identification and treatment of hazardous pollutants in wastewater from urban wastewater treatment plants in Kazakhstan" for 34 months.

Management training for Dulaty University is directly related to the quality of management, the effectiveness of the university's work and the level of its competitiveness. The role of executive training related to management activities is particularly increasing. Training and professional development of senior staff clearly define the following main areas: specific definition of goals and strategies of the university; methods of making effective management decisions; management theories and methods of working with subordinates; study of social aspects of management. So, the head of the Department of Chemistry and Chemical Technology PhD Kalmakhanova M. S. worked as a visiting professor during a scientific internship in a number of universities abroad: Polytechnic Institute of Braganza (Portugal), Complutens University (Spain), Rey Juan Carlos University (Spain). Teachers of the department Sadieva Kh. R., Badanova R. R., Kantarbayeva S. M., Kulazhanova A. S., Kulbaeva D. A., Shinibekova A. A., Daurenbek M. A. Teachers of the department Murzakasymova N. S., Altynbekova D. T., Baibazarova E. A. were trained at the courses "Fundamentals of the QuantWorks electronic document management system".Modern IT competencies of teachers: digital transformation and distance technologies in education". Also, M. A. Daurenbek was trained at the courses "Library and information support and higher education". Shinibekova A. A. completed advanced training courses "Curatorial School". The university management continuously participates in educational management programs for further improvement (head of the department Kalmakhanova M. S. completed advanced training courses on the topic: "Management in education" in the amount of 72 hours). In order to control the quality of work of all departments and perform the established functions, relevant documentation has been developed and implemented based on the requirements of the quality management system. A career and professional development center has been established at the University to teach modern management methods and introduce innovations.

Analytical part

"The concept of the quality assurance system in education at Taraz Regional University named after M. H. Dulati", approved by the Academic Council of Pr. No. 11 dated 04.05.2023, is the main document of the university's quality system and provides the basis for developing and analyzing quality goals, which are updated annually along with the tasks of the team for the academic year. A university's quality system is a set of organizational structures, methodologies, processes, and resources required to implement a quality assurance policy through such means as quality planning, quality management, quality assurance, and quality improvement.

The university creates conditions for students ' access to educational, scientific, and informational databases, including international data sources placed in electronic libraries. The library stock and availability of educational literature on electronic and magnetic media meet the qualification requirements for licensing educational activities. Information and educational support of the OP is carried out with a consistent increase in the emphasis on independent work of students. There are sufficient resources and opportunities to create a healthy lifestyle for students.

In 2023, Dulaty University and QAZAQSODA LLP signed a memorandum on training personnel for this organization in order to implement the accredited training programs, as well as to expand the practice bases. On the basis of Dulaty University, a network educational campus was created with the participation of partners of Kazphosphate LLP and Uralchem UCC JSC. In accordance with the memorandum, it is planned to conduct internships and advanced training for students, undergraduates, doctoral students, applicants for academic degrees and teachers in Russia and Kazakhstan.

The analysis of the survey of students and teaching staff shows that, in general, the content, organization and implementation of the educational process within the framework of the SP meets expectations and requirements. There were no critical comments from students and teaching staff based on the results of the survey. However, during the meeting with trainees and employers, the EEC experts found that stakeholders were poorly aware of the updates to the EP, and that regular meetings and meetings of working groups on accredited EP were poorly attended by interested parties. Analysis of the development plans of the SP showed that there is no plan of the SP management to improve the quality culture, and risk management is poorly considered in the development plans of accredited SP. In addition, the EEC experts note that in all plans for the development of accredited educational institutions, the same person is indicated as an employer (manager for training and personnel development of Kazphosphate LLP - A.D. Mukanova). In turn, when analyzing extracts from meetings of the Department of Chemistry and Chemical Technology, among those who were present during the discussion of updating accredited educational institutions. OP no OP students were detected.

Despite the fact that the Department of Chemistry and Chemical Technology implements a number of scientific projects funded by the Ministry of Education and Science of the Republic of Kazakhstan, there are no projects for commercialization of the results of scientific and/or scientific and technical activities that are a logical continuation of completed scientific projects at the department.

As noted above, despite the set of measures taken, the EEC members noted that some of the recommendations made as a result of the previous accreditation procedure were partially implemented. For example, during the meeting with graduates, there was a lack of activity of the Alumni Association; there are no groups studying in English; the department did not provide a program for the development of contractual projects and projects for commercialization of research results with enterprises and specialized organizations to stimulate research, as evidenced by the low rate of participation of teaching staff in competitions for grant funding and activities.

Strengths/Best practicesin SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
not detected

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
- The university management should develop a road map for improving the quality culture, including these measures in the development plan of the SP by 01.09.2024.
- The university management should conduct training of the SP management in the field of risk management, develop a plan of measures to reduce risks by 01.01.2025.
- To expand the number of trainees and employers involved in the formation of development plans for the SP by 01.09.2024.

- To develop a mechanism for commercializing scientific projects with the involvement of employers, to draw up a plan for their implementation in the process of implementing the EP by 01.01.2025.

- The management of the SP and the university should provide stable feedback to students and teaching staff regarding the management and development of the SP by 01.09.2024.

Дополнительные рAdditional recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry:

- The EP management should take into account the recommendations of the EEC when preparing for the next accreditation procedure.

WEC's conclusions based on the following criteria:

According to the standard "Educational program Management", educational programs 6B05314 "Chemistry", 7M05311 "Chemistry", 6B07115 "Chemical Engineering and Processes", 7M07112 "Chemical Engineering and Processes" have 17 criteria, of which 15 have a satisfactory position, 2-expectedimprovements.

6.22. Information Management and Reporting Standard

✓ *The university must demonstrate the development of a goal and strategy for the development of SP based on the analysis of external and internal The university must ensure the functioning of a system for collecting, analyzing and managing information based on modern information and communication technologies and software tools.*

✓ *The SP management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system.*

✓ *The EP management demonstrates the existence of a reporting system that reflects the activities of all structural divisions and departments within the EP, including an assessment of their performance.*

✓ *The university should determine the frequency, forms and methods of evaluating the management of the SP, the activities of collegial bodies and structural divisions, and top management.*

✓ *The university must demonstrate a mechanism for ensuring information security, including identifying those responsible for the accuracy and timeliness of information analysis and data provision.*

✓ *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.*

✓ *The EP management should demonstrate the existence of mechanisms for communication with students, employees, and other stakeholders, including conflict resolution.*

✓ *The university should measure the degree of satisfaction with the needs of students, teaching staff and staff within the framework of the EP and demonstrate evidence of addressing the identified shortcomings.*

✓ *The university should evaluate the effectiveness and efficiency of its activities in the context of SP.*

✓ *Information collected and analyzed by the university within the framework of the EP should take into account:*
  ✓ *key performance indicators;*
  ✓ *dynamics of the number of students in the context of forms and types;*
  ✓ *the level of academic performance, student achievements, and deductions.*
  ✓ *satisfaction of students with the implementation of the SP and the quality of education at the university;*
  ✓ *availability of educational resources and support systems for students;*
  ✓ *employment and career development of graduates.*

✓ *Students, teaching staff and staff must document their consent to the processing of personal data.*

✓ *The management of the SP should help to provide the necessary information in the relevant fields of science.*

Proof part

To automate the process of collecting, analyzing and managing information, the university has implemented and operates systems for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools: the official website of the university, a folder for exchanging information between structural divisions "Public", academic information management within the framework of AIS "Platonus" 6.0, an integrated information management system. library information system http://lib.dulaty.kz/index.php/kz/, the programs "1-C Enterprise" and "1-C Personnel accounting".

The university has identified those responsible for the functioning of information systems, software resources, and the accuracy of the information used: the press secretary of the university's Media Service; the director of the Project Management and Digitalization Center, the director of the technical support and IT support center, and the director of the Academic Work Department, the information support sector of the Platonus AIS.

The functioning of information systems for collecting, analyzing and managing information is regulated by PD 3-1. 01-2022 "Academic Policy of M.Kh.Dulaty Taraz Regional University"

(https://dulaty.kz/ru/education/academic-policy.html), which reflects the policy of ensuring openness and transparency.

To manage educational, educational, and financial processes, the main information flows are formed, which are categories: employees, students, and general information of the university. Information on the category "Employees" contains: personal data (AIS "Platonus": card file); information about employees - place of work, position held, name of the structural division, academic and academic degree (AIS "Platonus": various administrative reporting forms, official website of the university: introductory information) ; information about disciplines (AIS "Platonus": formation of the RUP, IEP, planning of the academic load of the department); information on professional development – used for planning the passage of teaching staff of advanced training courses, as well as the formation of administrative reporting form No. 6 "Information on teacher training"; information on participation in research projects and projects-used for planning participation in professional development courses. Teaching staff in research and development, as well as for the formation of administrative reporting forms No. 18 "Information on teachers and / or researchers who have publications in scientific journals with an impact factor", No. 17 "Information on innovative activities through the integration of education and science based on the transfer of the result of scientific research into production "and No. 19" Information on income from the implementation of the results of research and development work".

Information on the category "Trainees" contains: personal data (AIS Platonus: card file, social portrait of the student); information about students-specialty, study group, form of payment, place of internship, course, language of instruction, social activity, provision of a hostel, employment (AIS Platonus: reports on the student population "Contingent of full-time students", "Contingent of undergraduates", "Contingent of doctoral students", "Information on the educational work of a higher educational institution", "Information on providing the university with dormitories", "Information on employment of university graduates", "Information on providing students with industrial practice bases", " Information on students students studying in technical specialties at the expense of employers and foreign investors"; information on registration for an academic discipline (AIS "Platonus": formation of an individual curriculum of a student, planning the teaching load of teaching staff, determining the profitability or unprofitability of study groups; information on academic achievements (AIS "Platonus: formation of the history of students' academic achievements for the entire year period of study, transcript and diploma supplement design, formation of administrative reports, information on academic mobility of the student AIS "Platonus: monitoring the dynamics of the number of students who took part in the exchange of students and quality indicators, formation of an administrative reporting form "Information on the exchange of students, undergraduates, doctoral students".

Information on the category "General information about the University" is presented in full on the official website of the university: information on academic buildings, sports facilities, contracts with employers to provide industrial practice bases, innovation activities, accreditation, international cooperation of the university, research work of the university, as well as various additional information.

Access to information in the Platonus AIS is provided only for an authorized user and is differentiated depending on the needs of users and the functional responsibilities of service personnel. The folder for information exchange between structural divisions "Public" is publicly accessible to all employees and teachers of the university. The analysis of information is carried out by methods of comparing indicators, the evaluation criteria for which are set out in the regulations on internal and departmental regulatory documents. The results of the analysis are reflected in certificates, reports of structural divisions of the university and provided to responsible persons for making decisions on improving the process. For example, the analysis of the session results is carried out by comparing them with the strategic indicators indicated in the university's strategy. Based on the results of the session analysis, the Academic Council of the University makes specific decisions, develops action plans to eliminate shortcomings, improve academic performance, and increase attendance.

Academic information is collected, analyzed, and managed by the Platonus AIS. Every year, work is carried out to modernize and improve the automated information system, aimed at processing information intended for subsequent operational and strategic use.

The management of educational programs places information about all aspects of development, formation, approval and implementation in the local information network " Public$". The established working groups for the development of educational programs work to familiarize with certain issues that arise during the development, adjustment, introduction of additions and changes to the OP at meetings of the department and the Faculty Council. Invitations are sent to interested parties via corporate email. Placement of information about the OP and its development plan is carried out through information stands and the official website of the university.

For the security of Internet resources at the university, the "Regulation on Information Security of the Non-profit Joint-Stock Company Taraz Regional University" is used, approved by the decision of the Board of Directors of 20.08.2021, Pr. 6) posted on the university's website.

The Center for Technical Support and IT Support is guided in its work by the state program "Digital Kazakhstan".

The processed information based on reliable and accurate input data is then used to improve the internal quality assurance system through the use of quality policies, audit results, data analysis, corrective actions, and management review. For example, during the academic semester, the department conducts an analysis of current academic performance, which is compared with the accepted performance indicator of the university. In the event of a low academic performance, a corrective action plan is developed. Based on the results of the analysis of students ' current academic performance, decisions are made on the organization of additional classes, consultations, administrative measures to encourage or punish students. As one of the methods of analysis, the university uses rating analysis, the purpose of which is to stimulate the growth of qualifications, professionalism, productivity of pedagogical and scientific work, and the development of creative initiative of teachers. For example, every year the university conducts a rating assessment of the teaching staff of departments. The rating of a department consists of the rating of its teachers. The higher the rating of each teacher of the department, the higher the rating of the department, respectively, the head. The rating contributes to the implementation of an effective personnel policy, identification of individual abilities and professional skills, increasing responsibility for the assigned task at all levels, legal and social protection of teaching staff, heads of departments. The results of the rating analysis are used by the university management when making decisions on contract extensions, personnel appointments, and when determining the amount of salary allowances for teaching staff, department heads, and deans to their deputies.

The process of conducting an operational analysis of the existing information management system at the university is carried out in three stages. At the first stage, it is established what results have been achieved in the direction of this work for a certain period of time, for which the method of comparing the achieved results of work with data for a previous period of time or with the results of the main competing systems through primary and secondary information is used. At the second stage, the reasons for obtaining the available results of work in the considered aspect are clarified, as well as macroeconomic and microeconomic risks are assessed. In the process of the third and final stage of operational analysis, proposals are developed to improve and improve the university's information system.

The properties and characteristics of the information collected and processed are determined in accordance with the mission of the university and are aimed at finding the most effective and efficient methods and ways to improve the quality of educational and related services provided, as well as improve the level of social conditions of employees and students.

In order to improve the efficiency of employees ' work, the university's accreditation, rating and quality Assurance department conducts research on the internal corporate culture to study the degree of employee loyalty to management decisions, to reforms and changes taking place in the educational system. One of the most important criteria that determine the effectiveness of the university in all areas of its activity is staff satisfaction with work. The administration's assessment

of various factors that determine staff satisfaction makes it possible to make the necessary adjustments in time when making managerial decisions, acting as a form of feedback between the university's management and staff.

The process of assessing student satisfaction requires the use of primary information collection methods – questionnaires ("Student satisfaction with university support", "Student satisfaction with learning outcomes", "Student satisfaction with creating conditions for personal development and education"), testing ("Teacher through the eyes of students" through the Platonus AIS), observation (curators senior curator, deputy dean for educational work), survey, interviews that are conducted during the school year.

Up-to-date and objective information on the number and quality of implemented programs and qualifications is published on the official Internet resource of the University (https://dulaty.kz/ru/). All participants in the educational process and interested persons have the opportunity to address their questions to the rector through the "Rector's Blog" section and get an answer. Communication with students is carried out by publishing the necessary information and announcements on the University's website. The exchange of operational information between the university's structural divisions is carried out in the internal document management system "Documentolog". Each user's incoming and outgoing messages are displayed on their work page.

Information about the progress and results of research work of teaching staff and students of the university, about scientific ideas, innovative proposals and projects is reflected in the public folder "Public", on the website of the scientific journal of the University "Mechanics and Technologies" https://dulaty.kz/ru/nauka/scientific-journals-rus/item/2398, NIL engineering profile "Nanoengineering research methods named after A. S. Akhmetov" and, as a rule,, on the official website (https://dulaty.kz/ru/nauchnye-meropriyatiya.html).

Analytical part

The main information resource potential of the university is the library. The library's information capabilities are significantly expanded by participating in various library associations. Thus, the Dulati University Library is a member of the International Federation of Library Associations and Institutions IFLA, the Association of University Libraries of the Republic of Kazakhstan http://lib.dulaty.kz/index.php/kz/.

Official courses on full-time work in the Platonus system with the issuance of certificates were not conducted at the university. However, information about working in the system is provided as necessary in the form of presentations and videos.

The University collects and analyzes information to improve the internal quality assurance system, which is carried out through a monitoring system for the university's activities and the quality of education. Collection and analysis of information is regulated by the document STU 01-2020 "Management of documented information". To assess the university's performance, the quality management system of educational and scientific processes of the University is monitored, information on the results of work of university departments is used, and consumer satisfaction is assessed. However, an analysis of the documented procedures showed that there are no mechanisms for management to respond to the low level of satisfaction of stakeholders. So, despite the presence of the rector's blog on the university's website, where everyone can contact the management with their wishes and problems, there is no documented procedure for responding to complaints with the indication of responsible persons received by the rector's blog; the development plans of accredited educational institutions do not contain mechanisms for responding to the low degree of satisfaction of all interested parties.

Quality-related information systems of the university cover: students 'progress and academic performance; graduates' demand in the labor market; students ' satisfaction with educational programs; effectiveness and quality of teaching; student composition and its analysis; availability and cost of training resources; key performance indicators of the university. Effective decisions are made based on data and information analysis. For example, to discuss a document, use the public folder of the university's local communication ("Public$"). The document is presented as a

draft, indicating the terms and results of its discussion. Then the structural unit that develops this document collects the processed information in the form of references and suggestions. After that, there is a review process in the collegial bodies of the university with the participation of managers and representatives of structural divisions (STU 06-2020 "Management analysis"). However, all the information described only applies to the period during which the training takes place. After studying, graduates have the opportunity to apply to the Career and Business Partnership Center. The center's website provides summary information about the center, regulatory documents, and analytical data on graduate employment. However, the website does not provide information about events held by the center in the field of professional orientation of graduates of accredited educational institutions (job fairs, meetings with representatives of business structures, etc.).

In accordance with the Law of the Republic of Kazakhstan "On Personal Data", the university developed and approved STU 04-2020 "Personnel Management", which approved the list of personal data necessary and sufficient to perform the tasks performed, as well as the form of consent of the employee and student to collect and process their personal data. According to the Regulations, university employees and students give written consent to the collection and processing of their personal data, which is stored in the Department of organizational and personnel work and in the deans ' offices, respectively. Reliability, accuracy and timeliness of input information is the basis for forming various forms of reporting. In this regard, according to the calendar of planned works of the university, as well as local plans of departments, faculties, and structural divisions, responsible executors provide the supervising vice-rector with information on the reliability of the data provided, which is confirmed by data from alternative sources: the number of employed graduates is compared with information from the State Social Policy Center; scientific inventions with patents; student achievements with exam sheets; information on databases to pass production internships with relevant contracts, etc.

Strengths/Best practices in SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
Rating analysis is used as one of the key indicators of the effectiveness of teaching staff and the work of departments at the university, the purpose of which is to stimulate the growth of qualifications, professionalism, productivity of pedagogical and scientific work, and the development of creative initiative of teachers.

Recommendations forOP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
- The university management should develop and implement regulations for answering questions in the rector's blog by 01.09.2024.
- The management of the OP and the university should develop an action plan to eliminate the shortcomings found as a result of assessing the degree of satisfaction of the needs of teaching staff, staff and students by 01.09.2024.
- The university management should plan to hold permanent meetings of representatives of the Career and Business Partnership Center at the faculties with students on employment issues until 01.09.2024.

WEC's conclusions based on the following criteria:
According to the standard "Educational program Management", educational programs 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and processes have 1 strong, 13 satisfactory positions, 3 positions suggest improvement.

Standard "Student-centered learning, teaching and assessment of academic performance"

✓ *The EP management should ensure respect and attention to different groups of students and their needs, and provide them with flexible learning paths.*

✓ *The management of the EP should ensure that teaching is 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 EP, including competencies, skills in performing scientific work at the required level.*

✓ *The management of the SP should determine the mechanisms for distributing the academic load of students between theory and practice in the framework of the SP, ensuring the development of the content and achievement of the goals of the SP by each graduate.*

✓ *An important factor is the availability of our own research in the field of methods of teaching SP disciplines.*

✓ *The university must ensure that the procedures for evaluating learning outcomes are consistent with the planned results and goals of the EP.*

✓ *The university should ensure consistency, transparency and objectivity of the mechanism for evaluating the learning outcomes of the SP, publication of evaluation criteria and methods in advance.*

✓ *Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area.*

✓ *The EP management should demonstrate the existence of a feedback system for using various teaching methods and evaluating learning outcomes.*

✓ *The SP leadership should demonstrate support for students' autonomy, while providing guidance and assistance from the teacher.*

✓ *The EP management should demonstrate that there is a procedure in place to respond to student complaints.*

Proof part

The university's educational activities are based on an academic policy aimed at meeting the needs for quality education. One of the priorities of the University's Development Program for 2023-2029 is the full implementation of the principles of student-centered education.

Implementation of inclusive education is one of the university's priorities. The university's infrastructure is constantly being improved, taking into account the needs of students with special educational needs. Since the 2017-2018 academic year, a specialized office "Center for Psychological Adaptation of Inclusive Education" has been additionally connected to the classroom fund used during classes and during the session, in which 5 computers, 10 seats, upholstered furniture, special devices, specialized literature are installed. When drawing up the schedule of classes and exams, the needs of this category of students are taken into account.

Permanent courses in Kazakh and Russian languages are open for foreign students.

The design of educational programs is carried out in such a way that it provides equal opportunities for all categories of students in the formation of an individual educational trajectory. When developing the SP, the opinion of students as target consumers of programs is taken into account. Senior students and undergraduates are officially included in working groups on the development of the EP.

Starting from the stage of admission to the university, a student forms his / her individual learning path (individual curriculum - IC). The IEP is compiled for each academic year on the basis of the SP curriculum and the catalog of elective subjects. The choice of an individual educational trajectory is carried out on the basis of modular educational programs, in which, in addition to general education, basic disciplines of the mandatory component, elective courses and practices are included, which are aimed at ensuring professional competencies. Students who wish to acquire knowledge and competencies from a different field of specialization have the opportunity to study additional credits during the summer period on a paid basis.

The entire infrastructure, office management, and teaching materials provide a bilingual environment. To support the bilingual environment, the forms of documents in Russian and Kazakh are developed and updated annually, which are available on the corporate network, all information stands, the university website, posters, signs and signs are compiled in two languages, most university teachers speak Kazakh and Russian, the library fund is equally replenished (as of 01.10.2023It is 1288954 copies, including 312759 copies in the state language. Among them: educational and methodical literature – 1,037,588 (80.4%) copies, including in the state language – 216028 copies; scientific literature-176217 (13.6%) copies, including in the state language-78678 copies), All educational and methodical documentation is compiled in two languages of instruction (Kazakh, Russian) - catalogs, IC and WC, EMCD, work programs, syllabuses, tests, exam tickets. And for students of specialized departments or streams (multilingual groups) studying a course in English – the EMCD is developed in English.

The university has organized the process of adaptation of foreign students. Groups of foreign students are provided with language training during the 1st year of study. Foreign students study in groups with other students, which contributes to the integration of a foreign student into a new socio-cultural life.

In order to increase the effectiveness of educational activities in the learning process, teachers use a variety of forms and methods of training that ensure the development of communication, organizational and managerial skills of future graduates. Both traditional and innovative methods are widely used: case studies, video lectures, discussions, trainings, creative reports and presentations, business games, etc. Since 2008, the university has been implementing a project to introduce new teaching technologies: in accordance with the plan, a number of training seminars and trainings for teaching staff are held annually; each teacher is required to conduct an open lesson or master class using modern teaching technologies.

The results of innovative educational activities are introduced, as a rule, into the educational process in the form of textbooks, recommendations, special seminars, and are included in the content of lectures, seminars, practical and laboratory classes. The University has a system of encouraging teachers who use innovative teaching methods. For example, since 2009, the university has traditionally held an annual competition among teaching staff to develop the best multimedia product.

The university has defined the mechanisms for ensuring that each graduate of the SP develops learning outcomes and ensures the completeness of their formation. The main criterion for completing bachelor's degree programs is that the student has completed at least 240 academic credits for the entire period of study, including all types of academic activities of the student. The full academic load of one academic year is at least 60 academic credits or 1,800 academic hours. SP independently distributes the amount of academic credits by semesters (trimesters, quarters).

The full academic load of one academic year is at least 60 academic credits. At the same time, students complete at least 20 academic credits in one semester. (https://adilet.zan.kz/rus/docs/V2200028916)

According to the Bachelor's degree program in all areas, the number of students enrolled in the 2021-2022 academic year was 264 students. In the 2022-2023 academic year – 313 students, and in 2023-2024 the number of students is 284 students.

Assessment of academic achievements and the level of training of students at the university is carried out in accordance with the following regulatory documents: "Academic Policy", "Regulations of the educational process", "Regulations on Planning, monitoring and reporting in the educational process", Regulations "Policy for evaluating students 'academic achievements", "Rules for conducting current monitoring of academic performance, intermediate and final assessment of students 'academic achievements". attestations of students". The degree of students ' assimilation of certain competencies and skills is evaluated throughout the entire educational process from the moment of admission to the final state certification. Monitoring of academic achievements is carried out through current, milestone and final control of academic performance using a point-rating system for assessing knowledge.

Students have access to individual consultations of academic supervisors when writing their thesis and master's thesis, when preparing for exams, as well as textbooks, study guides, handouts, methodological guidelines for independent work, electronic textbooks, and access to online educational resources.

At the University, the Registrar's Office, together with the Department of Academic Affairs, conducts seminars for teaching staff aimed at informing teachers about new teaching methods and evaluating students ' achievements. In 2022, the university hosted a seminar " Development of academic programs. Some aspects", which was conducted by the team on institutional efficiency of Nazarbayev University.

When conducting an IGA, the chairman and members of the SAC are the evaluators. Members of the SAC are employees from among the most experienced and settled teachers of the graduating department, and specialized specialists are also attracted by the employer. So, in 2022,

the head of the technical training department of Kazphosphate LLP S. D. Khusainov was included in the SAC.

To work with complaints and appeals of students, a feedback system has been created with the university's management bodies: ballot boxes for collecting written complaints and appeals of students; the rector's blog on the university website, where not only students, but also employees can ask a question of interest; Call center: 8 (7262) 55-67-20, e-mail: tsos_2020@mail.ru_2020@mail.ru; the procedure for applying students through the dean's office.

A survey to assess the level of satisfaction of students with the quality of educational services provided in the SP is conducted at the end of the academic year. Analysis of the results of the survey shows that a positive assessment of the quality of educational services provided by the university prevails among students: students highly appreciate the professional level of university teachers; they are satisfied with the scientific and educational environment of the university and the provision of information support to the educational process.

Thus, the university has procedures that allow for high-quality and full implementation of the principles and methods of student-centered learning, teaching and evaluation. Compliance with ESG Standards allows for high-quality training of future specialists.

Analytical part
As a result of the analysis of the schedule of bachelor's and master's degree classes for the 2023-2024 academic year, experts identified an uneven load of settled teachers in the bachelor's degree. For example, established teachers with significant experience in teaching core subjects teach courses in the first two semesters. While teachers with a master's degree lead specialized disciplines in senior courses.

Analyzing the criteria of the standard "Student-centered learning, teaching and assessment of academic performance", the experts of the Higher School of Economics have found that the university and the SP management demonstrate a purposeful policy of implementing measures to take into account the needs and individual characteristics of various groups of students in both academic and non-academic activities.

The EEC experts found that the workload of students is taken into account when developing SP documents and meets the requirements for implementing the credit training system.

The educational trajectory of training is formed by each student individually, under the guidance of an adviser. All the necessary information of students and teachers of the SP is available in the AIS "Platonus" 6.0 in the individual account of each participant in the educational process.

The EP management ensures the availability and effectiveness of a mechanism for objective evaluation of learning outcomes, a peer appeal mechanism, and transparency of evaluation criteria and tools. In case of disputes about the results of final assessments, an appeal commission is created, which includes experienced teachers of the department. However, in the course of interviews with students and graduates, the EEC experts found that when passing the intermediate certification, the test form of passing the exam prevails and that the procedure for evaluating learning outcomes does not always correspond to the plannedи resultsи and goals of the IEP.

In the course of conversations between the EEC members and students, it was established that the university provides comprehensive support to students, compensates for the costs of participation in international conferences, republican Olympiads, and competitions.

Based on the results of a survey of students, it was established that:
-76.2% of students are completely satisfied with the objectivity of their assessment of knowledge, skills and other academic achievements;
-76.2% of students are fully satisfied with the clarity of the assessment criteria used by the teacher;
-84.1% of students are completely satisfied with the objectivity of the teacher's assessment of their achievements.

Strengths/Best practices in SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115

Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes: not detected

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
- The EP management should ensure that the procedures for evaluating learning outcomes comply with the planned results and goals of the EP by 01.09.2024.

Дополнительные pAdditional recommendations for SP 6B05314 Chemistry, 6B07115 Chemical Engineering and Processes:
- The SP management should review the load distribution between lectures and practical / laboratory work of teachers who have been settled down and those who have not been settled down, starting from the 2024-2025 academic year.

WEC's conclusions based on the following criteria:
According to the standard "Student-centered learning, teaching and evaluation of academic performance", the educational programs 6B05314 Chemistry, 6B07115 Chemical Engineering and Processes have 8 satisfactory positions, 2 positions suggest improvement.
According to the standard "Student-centered learning, teaching and evaluation of academic performance", the educational programs 7M05311 Chemistry, 7M07112 Chemical Engineering and processes have 9 satisfactory positions, 1 position implies improvement.

6.6. The "Learners" Standard

✓ *The university must demonstrate the policy of forming a contingent of students and ensure transparency and publication of procedures regulating the life cycle of students (from admission to completion).*
✓ *The SP management should provide for special adaptation and support programs for newly enrolled and foreign students.*
✓ *The university must demonstrate that its actions comply 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 encourage students to self-educate and develop outside of the main program (extracurricular activities).*
✓ *An important factor is the availability of a support mechanism for gifted students.*
✓ *The university must demonstrate cooperation with other educational organizations and national centers of the " European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers " ENIC/NARIC to ensure comparable recognition of qualifications.*
✓ *The university should provide students with places of practice, demonstrate the procedure for promoting employment of graduates, and maintain communication with them.*
✓ *The university must demonstrate the procedure for issuing graduates with documents confirming their qualifications, including the achieved learning outcomes.*
✓ *The management of the SP should demonstrate that graduates of the program have the skills that are in demand in the labor market and that these skills are really relevant.*
✓ *The SP management should demonstrate the existence of a mechanism for monitoring the employment and professional activities of graduates.*
✓ *An important factor is the existence of a functioning alumni association.*

Proof part
In order to attract the most qualified applicants, the university conducts systematic career guidance work throughout the calendar year. Various career guidance events are held (Olympiads, contests, intellectual games, developed booklets on SP and a promotional video of the department) in secondary and secondary technical educational institutions and at the university with the invitation of school and college students to the "Open Day". Career guidance work at the university is carried out in accordance with the plan of career guidance work at the level of the department, faculty. Visits of the department's teaching staff to schools and colleges in Taraz and Zhambyl region are organized, conversations and seminars are held with school graduates.

Admission and admission to training is carried out in accordance with the regulatory documents of the Ministry of Education and Science of the Republic of Kazakhstan. The university does not impose any additional conditions for applicants. OP students participate in the competition according to the current requirements. So, in the 2022-2023 academic year, students Elemes A., Sharapat K. became the owners of additional grants from the public fund "Kazakhstan

Halkyna", while students Turatbek N., Azhibay A., Yerezhep, Khidirbayeva Zh. received educational grants from the KAZENERGY Association.

At the department, every year before the beginning of the academic year, the head of the laboratory conducts an inventory of material, technical and information resources. The analysis is carried out and shortcomings are identified, applications are made for the purchase and repair of necessary equipment, devices, materials, reagents in accordance with the existing contingent of students.

A favorable factor for admission to the university is the system of tuition discounts depending on the academic achievements of students, discounts for socially vulnerable students (orphans, disabled people of groups I and II). For example, students Muratkyzy N., Zhomartkyzy A., Sadibek S., Kenzhebek Zh., Aivaz-ogly E received discounts on training, and Beysen G. (an orphan) also receives an additional scholarship from the university.

The system of social support for students developed by the University quickly responds to changes in the economic environment associated with a decrease in the solvency of the population (PD 4-10.01-2022 Regulation on the provision of benefits for tuition fees for educational programs of the M. Kh.Dulaty Taraz Regional University).

The presence of dormitories at the university is of great importance for students. Every student who needs living space has the right to apply for a hostel, and nonresident students who study full – time-at the full-time department of the university.

Organization of work with international students enrolled in external incoming mobility programs at the university is supervised by the Department of International Cooperation. The following documents have been developed and used: PD 3-5-3-2021 "Regulations on working with foreign students", a program for adapting foreign students to the conditions and requirements of the university's educational process.

The university has organized an adaptation process for foreign students, which contributes to their adequate interaction with the socio-cultural and intellectual environment of the university, the psycho-emotional stability of foreign students, the formation of new personality qualities and social status, the development of new social roles, the acquisition of new values, and understanding the significance of the traditions of the future profession. The process of adaptation to the new socio-cultural environment takes place both within the framework of educational activities and during extracurricular activities, which undoubtedly contributes to the acceleration of this process, as well as forms speech and socio-cultural competence. Foreign students study in multinational groups, which contributes to the successful adaptation of a foreign student to a new socio-cultural life.

Each university student independently builds their own individual curriculum on-line. Foreign students are given the full right to choose the language of instruction.

Cooperation with foreign universities on academic mobility, as well as the admission of foreign students, is fully consistent with the Convention on the Recognition of Qualifications Related to Higher Education in the European Region, which aims to ensure that the qualifications of a signatory from one country can be recognized in another country. The final document confirming the academic mobility program is a transcript. Conversion of ECTS credits to credits of the Republic of Kazakhstan and back is carried out on the basis of uniform transfer coefficients for higher education in accordance with PD 03.10-2023 "Regulation on the policy of academic recognition of learning outcomes at M.Kh.Dulaty Taraz Regional University".

Academic exchanges are implemented in accordance with agreements and agreements between the university and partner universities.

The main sources of funding for external mobility programs are: funds of the Ministry of Education and Science of the Republic of Kazakhstan; funds of the ERASMUS program; own funds of the University.

Before, during and after the mobility, students work closely with the International Cooperation Office, which helps to solve all the problems that arise. A dossier is created for each student, in which the student collects all the documents necessary to participate in mobility under

the control of the Department. In the 2022-2023 academic year, students of the 3rd year of SP 6B05314-Chemistry were trained in academic mobility at universities of non-CIS countries: Kali G. A. (Adam Mickiewicz University, Poland); Kanatbek U.G. (Adam Mickiewicz University, Poland); Akhmetzhanova A. S. (Tomasz Bati Zlin University, Czech Republic); Nurmakhanova A. A.S. (University of Huelba, Spain). Internal academic mobility is implemented in accordance with the concluded agreements, according to which in 2021-2022 academic year 1 student of SP 6B05314 - Chemistry studied at the West Kazakhstan University named after M. Utemisov. In 2023-2024 academic year, Master's student SP 7M05311 - Chemistry Reimbaev Erbol studied under the program of external academic mobility at the University of Huelva (Huelva, Spain).

In their free time, students are engaged in student scientific circles operating at the university departments. Within the framework of SP 6B05314, 6B07115 there is a circle "Chemist", which annually involves from 30 students and more. A calendar plan for the club's work is developed annually.

Taraz Regional University has a two-pronged support mechanism for gifted students. The first is to support creative and athletic youth. In order to attract students to creative and active social life, develop their potential and interest in art, the Center for the Development of Students ' Creativity organized a number of educational events in artistic, aesthetic and patriotic areas. The University annually hosts the contest "Zhas talent" among students of the 1st-2nd year in autumn.

The university management, including the department, attracts gifted students to participate in research projects of the department, to co-author in scientific journals, delegates students to participate in international scientific and practical conferences, while providing financial support. The university has a Fund named after M. F. Urkumbayev, which allocates personalized scholarships to particularly distinguished students.

So, 5 students of SP 6B05314-Chemistry in the 2022-2023 academic year won a Presidential scholarship, 2023-2024 academic year a 3rd-year student Karimbayeva Zh. she was also awarded a Presidential scholarship.

4 students of SP 6B05314-Chemistry participated in the Startup Kazenergy, where they won the 1st place in the Republic of Kazakhstan, receiving a grant of 2.5 million tenge.

In 2021-2022, within the framework of the International Scientific Project "Science with a Purpose: Improving Environmental Science Capacity in Kazakhstan Universities", second-year students of SP Chemistry completed scientific work and received a one-time scholarship in the amount of 100 US dollars as motivation.

The second direction-support for young people who are interested in science-is implemented through participation in research projects, namely in student scientific and practical conferences organized by the university. The university holds a competition for the qualification "Research student" with the award of a prize.

The University actively cooperates on the recognition of qualifications with the National Center for the Development of Higher Education of the Ministry of Education and Science of the Republic of Kazakhstan, which is part of the ENIC-NARIC information network. The university has a document PD 03.10-2023 "Regulation on the policy of academic recognition of learning outcomes in M.Kh.Dulaty Taraz Regional University", which prescribes recognition and nostrification procedures.

Organization and completion of practical training at the department is carried out in accordance with PD 3-1. 01. -2022 "Rules for organizing and conducting pedagogical practice and defining organizations as practice bases". Practical training is an integral part of the educational program. The main types of practice of students are educational, industrial, pre-graduate.

The search and selection of enterprises or specialized laboratories as practice bases is carried out taking into account the direction of professional training of students in the university. For the conclusion of contracts between the university and enterprises selected as student practice bases, preference is given to those enterprises whose activities correspond to the taught disciplines of the department. With this approach, students will be well acquainted with a particular area of professional activity.

The terms of the internship are set in accordance with the curriculum and Academic calendar, taking into account the capabilities of the university's educational and production base and organizations-bases of practice and the level of theoretical readiness of students. To manage the practice of students, internship supervisors from the university are appointed. Students register on the portal for the appropriate type of practice and include it in their individual training plan. The student draws up the results of the internship in the form of a written report, which he defends before the commission at the department. Within the framework of accredited SPS, the number of practice bases includes RSE on PCV "National Center for Examination of Medicines and Medical Devices" of the Committee for Medical and Pharmaceutical Control of the Ministry of Health, Taraz enterprises, Kazphosphate LLP.

The effectiveness of graduates ' employment is monitored by the Career Center and confirmed by the data of the GTSVP. To support students in finding employment, a job fair "Zhas Maman" is held annually in the Youth Palace.

The Department maintains contacts with graduates both directly and through the Alumni Association. OP graduates participate in annual job fairs. Also, the department directly contacts potential employers, fulfilling their order for personnel training.

The University's own diploma consists of a hard cover and an insert. The application (in three languages), unlike the usual (national) application, provides advanced information about the academic achievements of the graduate, which is necessary to ensure international recognition of the graduate's higher education diploma.

In the 2022-2023 academic year, 60 graduates graduated from the 6B05314 – Chemistry educational program, 15 of them were employed, 16 graduates are on maternity leave for child care, 15 graduates are foreign citizens, and 1 graduate joined the army. The employment rate is 21.6%.

According to the educational program 6B07115 - Chemical Engineering and Processes, 13 graduates graduated, 9 of them are employed, 3 graduates are on maternity leave to care for a child, 1 graduate is a foreign citizen, the employment rate is 69.1 %.

According to the study program 7M05314-Chemistry, 7 graduates graduated, 5 of them are employed, 2 graduates are on maternity leave to care for a child, the employment rate is 71 %.

According to the educational program 7M07112-Chemical Engineering and Processes, 2 graduates graduated, of which 1 graduate was employed, 1 graduate was on maternity leave to care for a child, the employment rate is 50 %.

The University has established the Dulaty Alumni Alumni Association, which is a dynamically developing organization whose mission is to unite and promote university graduates of all generations socially. Business and leisure activities conducted by the Association contribute to the creation of a unified community. The powers and procedures of the Dulaty Alumni Alumni Association are set out in PD 2.05-2024. The aim of the Association is to support alumni's contacts with the university, with each other, to develop partnerships between graduates, and to preserve the unity of values and interests. In addition, graduates of the SP implemented at the department constantly maintain contacts with the department and curators.

Analytical part

The EEC notes that the university ensures compliance with the recognition of learning outcomes acquired in other Kazakh or foreign educational institutions with permanent career guidance work to form a contingent; creating an educational environment for students to achieve the required professional level; representatives of students in the collegial management bodies of the University, methods of feedback and informing students, and cultural and social life students. The University does not discriminate against disabled people and creates positive conditions.

At the same time, the external commission notes that the external and internal academic mobility of students enrolled in accredited SP is low, and only a few go to the cities of Kazakhstan to study in a number of disciplines, specializations and semester training under the academic mobility program. In particular, there are no opportunities for external academic mobility of

students, as well as to assist them in obtaining external grants for training. During the interview, students confirmed that students are not interested in traveling to other cities and countries, citing the high cost of accommodation and food.

In the course of interviews with all interested persons, visits to the department, the SP management could not demonstrate the procedure for promoting employment of graduates, maintaining communication with them, as well as the existence of a mechanism for monitoring employment and professional activities of graduates, even if there is a Career Center and business partnership. Also, the university has developed a document "Regulations on the Dulaty Alumni Alumni Association", but it turned out that the work of the Association is not conducted, graduates at the end of the university become members of the Association, communication is interrupted, only a few keep in touch with the department. During the interview, the university management said that this issue was taken under control and a number of events are planned to activate the work of the Alumni Association.

Strengths/Best practices in SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
not detected

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
- The university management should regularly inform and involve graduates in the work of the current Alumni Association.

Recommendations for SP 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
- The SP management should start implementing external and internal academic mobility of students in accordance with the OP development plans until 01.09.2024.
- The SP management should draw up an indicative plan (with an indication of deadlines) for attracting foreign students, as well as for organizing external academic mobility of students and assistance in obtaining external grants for training until 01.01.2025.

WEC's conclusions based on the following criteria:
According to the standard "Students" study programs 6B05314 Chemistry, 7M05311 Chemistry have 11 satisfactory positions, 1 position implies improvement.
According to the standard "Students", the study programs 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes have 10 satisfactory positions, 2 positions suggest improvement.

Standard "Teaching staff"

✓ *The university should have an objective and transparent HR policy in the context of SP, including hiring (including invited teaching staff), professional growth and development of personnel, ensuring the professional competence of the entire staff.*
✓ *The university must demonstrate that the quality of teaching staff meets the established qualification requirements, the university's strategy, and the goals of the SP.*
✓ *The SP management should demonstrate a change in the role of the teacher in connection with the transition to student-centered learning and teaching.*
✓ *The university should provide opportunities for career growth and professional development of teaching staff, including young teachers.*
✓ *The university should involve in teaching specialists of relevant industries who have professional competencies that meet the requirements of the SP.*
✓ *The university must demonstrate the existence of a mechanism for motivating the professional and personal development of teaching staff.*
✓ *The university must demonstrate the wide use of teaching staff of information and communication technologies and software tools in the educational process (for example, on-line training, e-portfolio, MOHSs, etc.).*

✓ *The university must demonstrate its focus on developing academic mobility and attracting the best foreign and domestic teachers.*
✓ *The university must demonstrate the involvement of each teacher in promoting a culture of quality and academic integrity in the university, and determine the contribution of teaching staff, including invited ones, to achieving the goals of the SP.*
✓ *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.*

Proof part

The personnel policy of the university combines the following stages: formation of requirements for the personnel contingent, search and selection, recruitment, involvement of new personnel in the team and acquaintance with the corporate culture, monitoring and evaluation of activities, promotion and organization of personal and professional growth, promotion, incentives, imposition of disciplinary penalties, suspension from work activities in case of non-compliance with the qualification requirements (STU 04-2020 "Personnel management", PSP 1-6-2020 "Regulations on the Personnel Management Service").

Regulatory documents regulating the procedure for hiring, promotion, functional responsibilities, and internal regulations are published on the tab of the HR management service "Regulatory Documents". In addition, you can contact the rector's blog on the university's website in person.

The rights and duties, responsibilities and powers of university teaching staff are defined in job descriptions and regulations on structural divisions, as well as university plans and orders of the rector. Responsibilities are distributed according to qualifications, work experience, personal characteristics, and production requirements in job descriptions. All regulatory documents and job descriptions of teaching staff are available at the departments (the fact of familiarization is confirmed by a mark in the "Familiarization Sheet"); they are available for teaching staff and are placed in the folder for information exchange between structural divisions"Public$".

The AP is subject to the qualification requirements of the teaching staff according to the document "Professional qualification requirements for the teaching staff of M.Kh.Dulaty Taraz Regional University", such as higher (or postgraduate) education, academic degree, academic titles "professor", "associate professor (associate professor)" and length of service jobs.

Academic staff of the Department "Chemistry and Chemical Technology", implementing SP 6B05314, 6B07115, 7M05311, 7M07112 has a basic education corresponding to the profile of SP. Information about teaching staff is posted on the University's website in the section "Faculties" - "Departments" - "Department composition". Information about teachers and their assigned disciplines is posted on cathedral stands near the departments.

Academic mobility of teaching staff and employees is one of the important areas of international and educational activities of the university in order to improve the quality of higher education, increase the effectiveness of scientific research, increase the competitiveness of teaching staff and graduates in the domestic and international market of educational services and labor, improve professional competencies by studying and mastering the experience of leading domestic and foreign universities. Forms of academic mobility for teaching staff include participation in scientific seminars, participation in joint scientific and educational projects, and internships.

Teachers of departments that implement the EP regularly improve their skills through short-term seminars, advanced training courses in accordance with the advanced training plan, which is included in the department's plan. The Department of Chemistry and Chemical Technology has concluded agreements with leading universities of the near and far abroad, which contain clauses stipulating the conditions for academic mobility of teaching staff. These are the Polytechnic Institute of Braganza (Portugal) and the Novosibirsk National Research State University, which implement similar projects. Similar programs are also being implemented in the leading universities of Kazakhstan: Al-Farabi Kazakh National University, M. Auezov South Kazakhstan State University, and Kyzylorda State University. Korkyt-Ata, Karaganda State University. Buketova et al.

The Department is actively working to increase external and internal academic mobility and internships of the department's teaching staff in other educational organizations. So in 2022, the

PhD teacher of the department Kalmakhanova M. S. completed an internship in Tashkent, Bishkek, in the USA at the University of Nebraska. In 2024, Kalmakhanova M. S. won the Bolashak grant for an internship in Spain, Kudaibergenova R. M. completed a research internship at the Polytechnic Institute of Braganza (IPB), a research internship at the National Center for Scientific Research, Lorrein University (Nancy, France).

The international science project "Science with a Purpose: Improving Environmental Science Capacity in Kazakhstan Universities", submitted by the framework of the program "American Councils for International Education Kazakhstan Universities partnerships funding", won a grant of $ 38,000 for 2021-2022. The project was presented jointly by scientists from the Department of Chemistry and Chemical Technology and the University of Nebraska (USA).

Faculty members of the department participated in the competition for grant funding of young scientists of the project "Young Scientist" for the 2023-2025 academic year:

1) AP19175440 Creation of biodegradable polymer films based on polysaccharides and their derivatives and study of their physical and chemical properties (Darmenbayeva A. S.)

2) AP22686371 Development of composite materials based on lanthanum orthoniobates and nickel alloys for selective hydrogen release in membrane catalytic reactors (Altynbekova D. T.)

3) AP22686113 Фишер-Тропш синтезі үшін перовскит тәрізді модификацияланған кобальт құрамды катализаторларды дайындау және зерттеу (Джетписбаева Г.Д.)

4) Development of effective sorbents based on natural bentonites for water purification for various purposes (PhD Nurlybaeva A. N.)

The number and composition of teaching staff are planned based on the needs of the educational process, the standard training load per teacher and the number of students. The distribution of the training load is made taking into account the qualifications of teachers.

To improve the quality of teaching and ensure a close relationship with production, specialists with experience in the relevant industries are involved in the educational process. The faculty of the department consists of practicing specialists. For example, the department has hired part-time practitioners: Akmurzayeva G. K. (work experience in production-41 years of "Kazphosphate" LLP), Baikenzheeva D. K. (work experience in production – 40 years of "Kazphosphate" LLP), Shoraeva K. A. (RSE at the PHV Research Institute of PBB of the Ministry of Health of the Republic of Kazakhstan - work experience of 15 years), Markhabatov N. D. (Amangeldi gaz LLP – more than 3 years), Nazarbekova A. N. (laboratory engineer of Kazphosphate LLP), Baizhumanov K. B. (production manager of Karatau Chemicals LLP).

The level of competence of teachers is confirmed by the effectiveness and quality of teaching, which is assessed at the university by conducting open training sessions, mutual visits to classes, as well as conducting a questionnaire "Teacher through the eyes of students". The results of these events serve as the basis for extending the employment contracts of teaching staff, promotion, participation in the annual republican competition "Best University Teacher". This title was awarded to 5 representatives of the faculty of the department Masalimova B. K. (2019), Matniyazova G. K. (2020) Kalmakhanova M. S. (2021), Nurlybaeva A. N. (2022), Kudaibergenova R. M. (2023).

The OP management supports the development of young teachers. The University has a Council of Young Scientists, which is an important element of the infrastructure of research activities. The Council is designed to promote the development of research activities of young scientists, promote their participation in competitions and state programs for young scientists.

In order to improve the professional level, motivate employees and encourage employees, the university operates a system of awarding teachers and employees for their personal contribution and achieved results in their work. For financial incentives for university employees, extra-budgetary allowances are established in addition to the basic salary, material assistance is allocated, and a health improvement allowance is paid for vacation. Based on PD 2.07-2023 " Regulations on moral and material incentives for employees (teaching staff, internal affairs departments and employees) NPO M.Kh.Dulaty "Taraz Regional University" the university effectively uses measures of moral and material incentives for teaching staff and employees for

their professionalism and dedication. Children of employees studying at the university, in accordance with PD 4-10.01.-2022 "Regulations on the provision of benefits for tuition fees for educational programs", had until 2020 discounts for tuition fees of 10-20%.

A system of financial incentives for teaching staff based on the results of the rating has been developed and operates. At the end of the academic year, a personal rating of teaching staff is compiled, which evaluates educational, research, educational and social work for the academic year.

The university departments pay great attention to the use of information technologies in the educational process. The use of interactive teaching methods for online courses is relevant in the teaching and methodological activities of teaching staff. It is practiced to conduct presentations of all training courses using interactive whiteboards, multimedia projectors, etc.

The University carries out systematic work to attract foreign and domestic teachers. The work is organized by the Department of International Cooperation and is regulated by the document PD 3-5-2-2021 "Regulations on the procedure for attracting foreign scientists and professors".

In the 2023-2024 academic year, Hira Shabazz, an English language assistant from the United States, is working at the university. The teacher conducts seminars and "Speaking club", as well as lectures to university students. The system of work of a foreign specialist at the university is developed within the framework of the international program "Fulbright English Teaching Assistant program".

Foreign scientists were invited to give lectures, conduct seminars and master classes for students, bachelors, doctoral students and teaching staff. For example, the scientist of the Polytechnic Institute of Braganza (Portugal) Helder Teixera Gomez (23.11.22-23.12.2022), Daniel Davidson Snow from the University of Nebraska at Lincoln (18.10.23-21.11.23), the general manager of Qazag Soda LLP Mehmet Latif Teahouse (Turkey).

Analytical part

The EEC members confirm that the University's personnel policy is implemented in accordance with the development strategy and is aimed at meeting the university's needs for professional labor resources. All procedures of the university's personnel policy are transparent and accessible, strictly documented and meet the requirements of the current regulatory acts.

During the interviews, the teaching staff confirmed that the university has created an opportunity for career growth and professional development, and active targeted actions are being taken to attract and develop young teachers professionally.

As a result of the analysis of the schedule of bachelor's and master's degree classes for the 2023-2024 academic year, experts identified an uneven load of settled teachers in the bachelor's degree. For example, established teachers with significant experience in teaching core subjects teach courses in the first two semesters. While teachers with a master's degree lead specialized disciplines in senior courses.

During meetings and questionnaires with the university's teaching staff, experts noted the employees ' wishes to improve the material and technical base. Also, during the meeting with teaching staff, experts found that academic staff use interactive whiteboards, multimedia projectors, etc. when developing the UMC and conducting classes in their disciplines. However, the university has not tested the system of applying MOOCs in the educational process, integration of Coursera courses, etc. in the educational process.

The management of accredited cluster universities failed to demonstrate the focus of their activities on developing academic mobility, attracting the best foreign and domestic teachers to the University. Mostly short-term guest lectures were organized. The involvement of the department's teaching staff in organizing internal and external academic mobility, the involvement of teaching staff in the development of the economy and culture of the region and the country are not fully reflected in the self-report and were not confirmed during the visit of the EEC.

During the EEC visit, the management of the SP and the university failed to demonstrate the

involvement of each teacher in promoting the quality culture, as well as the contribution of teaching staff to achieving the goal of the SP. The results of the analysis and evaluation of the department's activities showed that it is necessary to further expand the academic mobility of teaching staff, exchange experience and participate in scientific projects, including international ones, aimed at ensuring the quality of education and introducing innovative methods of teaching and evaluation.

Experts of the Higher Economic Commission note that the management of the Higher Educational Establishment needs to step up work on the development of human resources, for example, young masters work at the department, and in order to gain practical experience, they need to be sent for targeted training in doctoral studies.

Strengths/Best practicesin SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
not detected

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
- The management of the SP and the university should analyze the compliance of teachers ' qualifications and education with the subjects they read by conducting certification by 01.01.2025.
- The SP management should develop mechanisms for integrating MOOCs into academic disciplines by 01.01.2025.

Additional recommendations for SP 6B05314 Chemistry, 6B07115 Chemical Engineering and Processes:
- To ensure that the quality of the teaching staff meets the established qualification requirements and goals of the SP by 01.09.2024.
- The SP management should review the distribution of retired and non-retired teachers in the schedule starting from the 2024-2025 academic year.

EEC's conclusions based on the following criteria:
According to the standard "Teaching staff", the study programs 6B05314 Chemistry, 6B07115 Chemical Engineering and processes have 6 satisfactory positions, 4 positions suggest improvement.

According to the standard "Academic staff", the study programs 7M05311 Chemistry, 7M07112 Chemical Engineering and processes have 7 satisfactory positions, 3 positions suggest improvement.

6.8. Standard "Educational resources and student Support Systems"

✓ *The university must ensure that the infrastructure and educational resources, including material and technical resources, meet the goals of the educational program.*
✓ *The SP management must demonstrate that classrooms, laboratories, and other facilities equipped with modern equipment are sufficient to meet the SP's goals.*
✓ *The university must demonstrate that the information resources meet the needs of the university and the implemented educational programs, including in the following areas:*
  ✓ *technological support for students and academic staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);*
  ✓ *library resources, including the collection of educational, methodological and scientific literature on general education, basic and profile disciplines on paper and electronic media, periodicals, access to scientific databases;*
  ✓ *examination of research results, graduation papers, and dissertations for plagiarism;*
  ✓ *access to online educational resources;*
  ✓ *operation of WI-FI on its territory.*
✓ *The university must demonstrate that it creates conditions for conducting scientific research, integrating science and education, and publishing the results of research work of teaching staff, employees, and students.*
✓ *The university should strive to ensure that the educational equipment and software used for mastering educational programs are similar to those used in the relevant sectors of the economy.*
✓ *The EP management should demonstrate that there are procedures in place to support various groups of students, including informing and advising them.*
✓ *The SP management should show that there are conditions for the student's progress along the individual educational path.*

✓ *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).*
✓ *The university must ensure that the infrastructure meets the security requirements.*

Proof part

The quality of educational services is directly ensured by the quality of educational resources and the student support system. Today, the modern material, technical and social base, which is under the operational management of the university, is located in the cities of Taraz and Karatau. The material and technical base of the university includes 111 objects with a total area of 191,850. 92 sq. m. located in Taraz and Karatau. Including 22 academic buildings of 136,000 sq. m. (97,913. 98 sq. m. of study area), 136 educational laboratories equipped with modern equipment and measuring instruments, 9 sports complexes equipped with appropriate sports equipment, an outdoor stadium, a tennis court, sports grounds, a country sports and recreation camp, a Youth Palace for organizing leisure activities for students, "Zhastar Alemi" center, canteens, buffets.

The material and technical base of the university provides all types of laboratory and practical classes, research work of students provided for in the curriculum, and meets the current sanitary and technical standards, as well as the requirements of the current state educational standards. Production environment conditions meet the requirements of SNiP II-68-78 "Higher educational institutions" and the requirements of ST RK 1158-2002 " Higher professional education. Material and technical base of educational organizations".

For the effective organization of educational and scientific activities, the university has an extensive classroom fund.

SP 6B05314, 6B07115, 7M05311, 7M077112 are equipped with specialized classrooms and laboratories included in the classroom fund of the Department of Chemistry and Chemical Technology. The classroom fund of the department consists of 14 special classrooms, 5 laboratory classrooms equipped with modern furniture, computer equipment, multimedia equipment (computers, interactive whiteboards, projectors).

The university pays great attention to the development of information and communication technologies, namely the formation of a modern integrated system and organization of the university's representation in the Internet information space, the provision of modern electronic services for teachers and students, and the creation of a full-fledged information and educational corporate portal of the university. Official website of the University https://dulaty.kz / modeled according to all modern standards and requirements. For effective work and creating comfortable conditions for students, teaching staff and employees of the University, free Internet access is provided in computer classes and electronic reading rooms.

The corporate information and educational network of the university is provided with Internet access, the total speed of which is 900 Mbit / s. Connection to the Internet is made using fiber-optic lines laid to the server rooms located in the academic buildings. For Internet access, Wi - Fi antennas are installed in the university's reading rooms, dormitories and on-site.

The library provides free access to information and documents to all categories of users, regardless of where they are located and regardless of where the requested information is located. The library and information center is located in 6 academic campuses and covers an area of 4728.55 m2, including an area of 18 reading rooms – 1752.5 m2, has 22 points of issue (4 subscriptions, 18 reading rooms). The volume of bibliographic records of the electronic catalog is 452316 titles.

The total library fund of the University is 1,288,954 copies, including 310,978 copies in the state language, 935,947 copies in Russian, and 39,545 copies in other languages.

The fund of educational and methodical literature – 1,037,588 copies, scientific literature-167,937 copies, other literature - 83429 copies. Every year there is a subscription to more than 100 titles of scientific periodicals in the university profile. The total fund of periodicals is 32,894 sets.

For the 2022-2023 academic year, the number of subjects studied is only 4,730, including: bachelor's degree-3,426, master's degree-1,187, doctoral studies-117.

The reliability of graduate papers, master's theses, and research results presented by faculty members in monographs, scientific articles, and reports is evaluated by checking them for

plagiarism using the "Anti-plagiarism «system. Research reports and monographs are subject to external review through JSC NCGNTE.

For the effective organization of educational and scientific activities, the university has an extensive classroom fund. At the university there are research institutes and centers where students receive knowledge, skills and abilities in research work. The university has a total of 601 free-use classrooms with a total of 16065 seats. The classroom fund includes 120 lecture halls and 288 classrooms for practical and seminar classes, as well as 136 educational and scientific laboratories, 84 computer classes. In educational and scientific laboratories, modern equipment and devices corresponding to the profile of the subjects taught and conducting research are installed, which is updated annually in accordance with the procurement plan.

The total number of computers at the university is 2,451, of which 60% are modern-generation computers.

The need for purchasing hardware and software is determined by the department. The need is determined in accordance with the list of hardware and software products specified in the standard program. When purchasing hardware and software, specify the models and series that are similar to those used in the respective industries. After determining the list or type of equipment, the department searches for similar products in the market of services and goods, forms an application for material and technical support for the next financial year. Applications go through all levels of discussion and approval at a specially created commission with the participation of heads of departments. The Commission conducts monitoring, determines the degree of equipment with laboratory equipment and software, the level of their use in the educational process, assesses the need to purchase additional equipment and its demand. Safety requirements for the operation of equipment at the university are determined by the occupational safety engineer. Safety requirements are regulated by safety and fire safety instructions approved by the rector.

Transparency of the allocation of resources is ensured by its annual approval by the Board of Directors and the rector's report to the members of the Academic Council on the results of financial and economic activities of the university for the calendar year, in accordance with the university's development plan.

Computer equipment of university departments is updated every year, as the equipment becomes obsolete. Software updates, computer repairs, and maintenance are performed by the Central Research Institute. The computers of the departments are connected to the local network of the university, and the classrooms are equipped with specialized software and literature on special disciplines of the department.

Students are advised on the educational process by deans, advisors and employees of the Registrar's Office. The basics of the educational process are described in the Student's Guide Book posted on the university's website.

The University has developed a mechanism to help students in case of problems related to the educational process. A student who has missed classes for a valid reason in case of confirmation of illness, birth of a child, etc., provided for by the rules of credit technology of training, internal regulations of the university, may be provided with an individual funded list (INV) or the opportunity to pass this discipline in an additional semester. In addition, for the period of the examination session, an appeal commission is created from among teachers whose qualifications correspond to the profile of the appealed disciplines.

Since 2020, the university has a student service department, which is a service center of the university, designed to create conditions for transparency and accessibility in obtaining services, ensure high standards of service, prevent corruption risks, improve the quality of education and promote the principles of academic integrity.

All necessary documents (academic certificates, transcripts, copies of diplomas, extracts from orders, certificates of study, the presence or absence of scholarships) are received by students both in paper and electronic form.

In order to be able to independently and comprehensively determine the trajectory of studying at the university, the Catalog of elective subjects is formed with the participation of

employers and students. Approved QEDS are stored in the library.

Since 2016, the University has been providing inclusive education. The increase in the number of students with disabilities predetermined the opening of the center for psychological adaptation in inclusive education in 2018. Currently, the regulation "Psychological and pedagogical support" has been introduced, the forms of integration of students with disabilities into the general education environment have been defined, the document "Regulation on the Center for Support of Students with Disabilities in Higher Education" has been developed (regulation on the PPSIO 25.03.22). The discipline "Fundamentals of inclusive Education"has been introduced at the Faculty of Humanities and Social Sciences. Orders have been placed for books on inclusive education.

Within the framework of safety requirements, the university has established evacuation plans in case of a fire and terrorist act, in case of detection of explosives and suspicious substances. Educational buildings and student dormitories are equipped with fire-fighting devices in the form of fire cranes with sleeves, educational laboratories are equipped with fire extinguishing equipment. Tables in laboratories for working with fire and fire - explosive substances are covered with a fireproof material, which complies with the fire safety rules approved by the resolution "Regulations on Safety and Labor Protection at the University".

Classrooms, laboratories, specialized classrooms, and computer labs of the university are used for conducting the educational process. Each laboratory has work plans, passports, instructions, a safety log, a memo and instructions on fire safety measures. Each laboratory is equipped with fire extinguishing equipment: fire extinguishers, sand boxes. Laboratories have first-aid kits for providing first aid.

Analytical part

Despite the fact that the university has several laboratories equipped with equipment for physical and chemical analysis, purchased at the expense of funded projects of the department, during a visual inspection of the laboratories, it was revealed that the laboratories are not fully equipped with modern equipment for conducting laboratory classes. During the interview, the teaching staff confirmed the fact of submitting applications for the purchase of reagents and equipment, the purchase of which is planned for future years.

During the interviews, students confirmed that there is free access to Wi-Fi in buildings and dormitories.

EEC notes that the university has sufficient information, telecommunications and library resources. At the university, the Internet provider is Kazakhtelecom JSC. The university buildings are connected to a fiber-optic Internet network with an access speed of 500 Mbit / s. University departments and structural divisions, deans ' offices, computer classes are integrated into a single local network, and data exchange between buildings is carried out via an IP VPN network with a bandwidth of 100 Mbit / s. All university computers have access to the Internet. Faculty members and university employees exchange files using the \\internal\public$public folder.

Strengths/Best practicesin SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
not detected

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
- The SP management should continue to work to ensure that material, technical and information resources meet the needs of the university and the implemented SP.

EEC's conclusions based on the following criteria:
According to the standard "Educational resources and Student Support Systems", the educational programs 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical

Engineering and Processes, 7M07112 Chemical Engineering and Processes have 13 satisfactory positions.

6.9. "Informing the Public" Standard

✓ The university guarantees that the published information is accurate, objective, up-to-date and reflects all areas of the university's activities within the framework of the educational program.

✓ Public awareness should include supporting and explaining the national development programs of the country and the system of higher and postgraduate education.

✓ 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.

✓ Information about the educational program is objective, up-to-date and should include:

   ✓ the purpose and planned results of the SP, the qualification to be assigned;
   ✓ information about the system for evaluating students ' academic achievements;
   ✓ information about academic mobility programs and other forms of cooperation with partner universities and employers;
   ✓ information about opportunities for developing students ' personal and professional competencies and employment;
   ✓ data that reflects the SP's positioning in the educational services market (at the regional, national, and international levels).

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

✓ The university must publish on its own web resource the audited financial statements on the SP.

✓ The university should post information and links to external resources based on the results of external assessment procedures.

✓ An important factor is the publication of information about cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners, and educational organizations.

Proof part

The Center for Information and Media Communication of the University carries out work on interaction of the university with the media, public and professional organizations. The center covers the university's activities in the educational, methodological, scientific and educational areas of the University. The center includes the editorial office of the newspaper "University of Tynys", which is responsible for the preparation and publication of a mass socio-political newspaper published once a month. The publication of information to the public is determined by the management, in accordance with the Media Plan of the university. The university's media plan is developed at the beginning of the academic year, based on the media plans of departments. The specialists of the Center for Information and Media Communication are responsible for the accuracy of the published information, including for news releases, events, concert programs held at the university, conferences, while directing and controlling the publication of these news in the media.

In terms of organizing public awareness, feedback and building a dialogue with employees and students, the university management strives to create the maximum level of transparency and accessibility to reference, introductory and regulatory information, as well as to ensure the mobility of public relations services. All interested persons have the opportunity to make an appointment with the rector. There is an opportunity to address working questions to the vice-rectors and heads of departments in working mode without prior appointment.

The university carries out a policy to support and explain the national development programs of the country and the system of higher and postgraduate education: articles, appeals, speeches of the university's management are published in the media.

The official website is an important tool for informing the general public about the university's activities https://dulaty.kz/ru. The website contains general information about the university, its history; mission, goals and objectives of the university; licenses, list of specialties, contacts; description of the university structure and main documents regulating its activities; description of the university infrastructure (addresses and characteristics of academic buildings, bus routes, etc.); information for applicants (terms and procedure conditions of admission, working hours of the admissions committee). There are materials on the organization of the educational process; materials on scientific and innovative activities, international contacts of the university; electronic library resources; information about partners and projects; success stories of graduates; links to internal information resources. There is also a news blog, including news archives, detailed information about educational news, university news, photo and video reports.

In addition to the website, the University has the following sources and services for

publishing and reporting information: student TV studio; portal for employees and students (https://platonus.dulaty.kz/); advising service and registrar's office; consulting services on the basis of departments, deans ' offices and other departments of the university in terms of their powers; online consultant; official pages in VK social networks, Instagramm, Facebook; information stands on the territory of the university. The pages are used as a platform for posting information about the achieved results of the university and its participants; registering for participation in interest clubs, public events; implementing advertising activities; encouraging outstanding students and employees; and conducting online contests and promotions.

The university publishes the newspaper "University Tynysy" (https://dulaty.kz/release-of-newspaper-kaz), which is issued twice a month, both in hard copy format and online.

The Media Plan of the university includes planned publications of university teachers in the media of regional and republican levels: the newspapers Kazakhstanskaya Pravda, Egemen Kazakhstan, Ak Zhol, Znamya Truda, Zhambyl Taraz.

Departments on the website of the university have information about personnel and contact details for feedback. In addition, the functional responsibilities performed are listed, and a list of activities for organizing the main and auxiliary processes of the university is provided.

A publication about the teaching staff, in the context of the personnel of the Department of Chemistry and Chemical Technology, is available on the open resource of the university's website https://dulaty.kz/ru/technological-faculty/chemistry-and-chemical-technology-rus

Analytical part

EEC experts found that the university publishes information on all areas of activity on its official website. Information on the university's website is presented in Kazakh, Russian and English and includes the mission and strategy of the university, international cooperation, academic policy, information for applicants and students.

The university has official pages in VK social networks (https://vk.com/dulatykz), Instagramm (https://www.instagram.com/dulaty_university/), Facebook (https://www.facebook.com/groups/dulatykz/) information stands on the territory of the university.

Nevertheless, the analysis of the content of the university's website by the members of the EEC allowed us to establish that the information posted on https://dulaty.kz/ru it is not presented in full and does not reflect the results of the university's activities. In particular, the teaching staff profile is not sufficiently developed, there is no complete information, it is not structured in the context of the SP, it is difficult to get objective and up-to-date information; insufficient presence on the university's website information about the scientific activities of the department, namely about the implemented scientific projects within the framework of the SP.

Visual inspection confirmed the adequacy of material and technical resources and the corresponding infrastructure for the implemented educational programs. There is data on the availability of library and information resources. The survey showed that 92.1% of students rate the availability of library resources rather highly and 92.1% rate their quality.

Strengths/Best practicesin SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
not detected

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
- The university management should structure, expand information and publish personal pages of teaching staff on the website: contact details, education, research areas, work experience, main scientific publications, information on advanced training and subjects read by 01.09.2024.

EEC's conclusions based on the following criteria:

According to the "Public Awareness" standard, the educational programs 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes have 12 satisfactory positions.

(VII)   OVERVIEW OF STRENGTHS/ BEST PRACTICES FOR EAC(VIH STANDARD

According to the standard "Educational program management"
Strengths/Best practicesin EP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes: not detected.

According to the "Information Management and Reporting" standard
Strengths/Best practicesin SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
Rating analysis is used as one of the key indicators of the effectiveness of teaching staff and the work of departments at the university, the purpose of which is to stimulate the growth of qualifications, professionalism, productivity of pedagogical and scientific work, and the development of creative initiative of teachers.

According to the standard "Development and approval of the educational program"
Strengths/Best practicesin OP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes: not detected.

According to the standard "Continuous monitoring and periodic evaluation of the educational program"
Strengths/Best practicesin EP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes: not detected.

According to the standard "Student-centered learning, teaching and assessment of academic performance"
Strengths/Best practicesin SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes: not detected.

According to the standard "Students" for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:not detected.

According to the standard "Academic staff"
Strengths/Best practicesin SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes: not detected.

According to the standard "Educational resources and student support systems"
Strengths/Best practicesin SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes: not detected.

According to the "Informing the Public" standard

Strengths/Best practicesin SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes: not detected.

(VIII) REVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS FOR EACH STANDARD

According to the Study Program Management standard:
Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
- The university management should develop a road map for improving the quality culture, including these measures in the development plan of the SP by 01.09.2024.
- The university management should conduct training of the SP management in the field of risk management, develop a plan of measures to reduce risks by 01.01.2025.
- To expand the number of trainees and employers involved in the formation of development plans for the SP by 01.09.2024.
- To develop a mechanism for commercializing scientific projects with the involvement of employers, to draw up a plan for their implementation in the process of implementing the SP by 01.01.2025.
- The management of the SP and the university should provide stable feedback to students and teaching staff regarding the management and development of the SP by 01.09.2024.

Дополнительные рAdditional recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry:
- The SP management should take into account the recommendations of the EEC when preparing for the next accreditation procedure.

According to the "Information Management and Reporting" standard:
Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:
- The university management should develop and implement regulations for answering questions in the rector's blog by 01.09.2024.
- The management of the SP and the university should develop an action plan to eliminate the shortcomings found as a result of assessing the degree of satisfaction of the needs of teaching staff, staff and students by 01.09.2024.
- The university management should plan to hold permanent meetings of representatives of the Career and Business Partnership Center at the faculties with students on employment issues until 01.09.2024.

According to the standard "Development and approval of the educational program":
Recommendations for SP 6B05314 Chemistry, 6B07115 Chemical Engineering and processes:
- The SP management should expand the number of students and employers involved in the development of the SP by 01.09.2024.
- The SP management should develop criteria for selecting experts, as well as criteria for evaluating the EP for reviewing by 01.09.2024.
- The SP management should review the SP for positioning the accredited SP in the educational market, including at the national and international level, by 01.06.2025.
- The SP management should develop a plan for training students for professional certification by 01.01.2025.

Additional recommendations for SP 6B07115 Chemical Engineering and processes:
- To demonstrate to the SP management the uniqueness of the educational program and its positioning in the educational market by 01.09.2024.

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

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:

- The management of the SP and the university should ensure that all interested parties are informed in a timely manner about all changes in the current regulations, regulatory framework, and content of the SP, and regularly publish news about these changes on the official website of the university.

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

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:

- The SP management should ensure that the procedures for evaluating learning outcomes comply with the planned results and goals of the SP by 01.09.2024.

Additional recommendations for SP 6B05314 Chemistry, 6B07115 Chemical Engineering and Processes:

- The SP management should review the load distribution between lectures and practical / laboratory work of teachers who have been settled down and those who have not been settled down, starting from the 2024-2025 academic year.

According to the "Students" standard:

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:

- The university management should regularly inform and involve graduates in the work of the current Alumni Association.

Recommendations for SP 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:

- The SP management should start implementing external and internal academic mobility of students in accordance with the SP development plans until 01.09.2024.
- The SP management should draw up an indicative plan (with an indication of deadlines) for attracting foreign students, as well as for organizing external academic mobility of students and assistance in obtaining external grants for training until 01.01.2025.

According to the standard "Academic staff":

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:

- The management of the SP and the university should analyze the compliance of teachers ' qualifications and education with the subjects they read by conducting certification by 01.01.2025.
- The SP management should develop mechanisms for integrating MOOCs into academic disciplines by 01.01.2025.

Additional recommendations for SP 6B05314 Chemistry, 6B07115 Chemical Engineering and Processes:

- To ensure that the quality of the academic staff meets the established qualification requirements and goals of the SP by 01.09.2024.
- The SP management should review the distribution of retired and non-retired teachers in the schedule starting from the 2024-2025 academic year.

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

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:

- The SP management should continue to work to ensure that material, technical and information resources meet the needs of the university and the implemented SP.

According to the "Informing the Public" standard:

Recommendations for SP 6B05314 Chemistry, 7M05311 Chemistry, 6B07115 Chemical Engineering and Processes, 7M07112 Chemical Engineering and Processes:

- The university management should structure, expand information and publish personal pages of teaching staff on the website: contact details, education, research areas, work experience, main scientific publications, information on advanced training and subjects read by 01.09.2024.

(IX)   RECOMMENDATION TO THE ACCREDITATION COUNCIL

The EEC members came to a unanimous conclusion that the SP
- 6B05314 Chemistry, 6B07115 Chemical Engineering and Processes are recommended for accreditation for a period of 3 years;
- 7M05311 Chemistry, 7M07112 Chemical Engineering and Processes are recommended for accreditation for a period of 5 years.

Appendix 1. Evaluation table "Conclusion of the external expert Commission" for SP 6B05314 Chemistry

p\n	p\n	evaluation Criteria	, the organization of education			
			Strong	Suit-tive	Involves improving	Unsatisfa-tional
Standard "educational program"						
1	1.	the University must demonstrate the development of goals and strategies for the development of SP based on the analysis of external and internal factors, with wider involvement of diverse stakeholders		+		
2	2.	quality assurance Policy needs to reflect the relationship between research, teaching and learning of		+		
3	3.	, the University demonstrates the development of a quality assurance culture		+		
4	4.	Commitment to quality assurance should relate to any activity carried out by contractors and partners (outsourcing), including the implementation of joint/double-diploma education, academic mobility		+		
5	5.	SP Guide provides transparency on the development of the plan of development of SP based on the analysis of its functioning, the actual positioning of the University and focus its activities to meet the needs of students, the state, employers and other stakeholders		+		
6	6.	SP Guide demonstrates the mechanisms of formation and regular review of the plan for the development of SP and monitoring its implementation, and assessment of achievement of learning objectives, meet the needs of students, employers and society, decision-making, aimed at continuous improvement of SP		+		
7	7.	Guide SP should involve representatives of stakeholder groups, including employers, students and teachers to the formation of a plan of development SP		+		
8	8.	Manual SP must demonstrate individuality and unikalnosti development of the EP, its consistency with national development priorities and the development strategy of the educational organization		+		
9	9.	The university must demonstrate a clear definition of those responsible for business processes within the EP, the distribution of job responsibilities of personnel, the division of functions of collegial bodies		+		
10	10.	The SP management ensures coordination of the activities of all persons involved in the development and management of the EP, and its continuous implementation, as well as involving all stakeholders in this process		+		
11	11.	The SP management should ensure transparency of the management system, the functioning of the internal quality assurance system, including its design, management and monitoring, and appropriate decision		-**ma kin g+**		
12	12.	The SP management should carry out risk management			+	
13	13.	The SP management should ensure the participation of representatives of interested parties (employers, teaching staff students) as part of 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 SP, including the analysis and implementation of innovative proposals		+		
15	15.	The SP management must demonstrate its openness and accessibility to students, teaching staff, employers and others stakeholders		+		

16	16.	SP Management confirms training in educational management programs		+		
17	17.	The SP management should strive to ensure that progress made since the last external quality assurance procedure is taken into account in preparation for the next procedure			+	
		Total according to the standard		**15**	**2**	
Standard "Information Management and reporting"						
18	1.	The university should ensure the functioning of the system for collecting, analyzing and managing information based on modern information and communication technologies and software tools			+	
19	2.	The SP management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system		+		
20	3.	The SP management demonstrates the presence of a reporting system, reflecting the activities of all structural divisions and departments within the framework of the EP, including an assessment of their performance		+		
21	4.	The university should determine the frequency, forms and methods of evaluating the management of the SP, the activities of collegial bodies and structural divisions, and top management		+		
22	5.	The university should demonstrate a mechanism for ensuring information security, 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 SP should demonstrate the existence of communication mechanisms with students, employees and other stakeholders, including conflict resolution		+		
25	8.	The university should measure the degree of satisfaction with the needs of students, teaching staff and staff within the framework of the SP and demonstrate evidence of addressing the identified shortcomings		+		
26	9.	The university should evaluate the effectiveness and efficiency of its activities in the context of the SP			+	
The information collected and analyzed by the university within the framework of the OP should take into account:						
27	10.	key performance indicators	+			
28	11.	dynamics of the number of students in the context of forms and types		+		
29	12.	level of academic performance, student achievements and deductions		+		
30	13.	satisfaction of students with the implementation of the SP 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, teaching staff and staff must document their consent to the processing of personal data		+		
34	17.	The management of the SP should help to provide the necessary information in the relevant fields of science		+		
		Total according to standard	**1**	**13**	**3**	
Standard "Development and approval ofthe educational program"						
35	1.	The university must demonstrate the existence of a documented procedure for the development of the educational program and its approval at the institutional level		+		
36	2.	The university must demonstrate the compliance of the developed educational program with the established goals and planned learning outcomes			+	
37	3.	The management of the educational program must determine the impact of disciplines and professional practices on the formation of learning outcomes			+	

38	4.	The university demonstrates the existence of a graduate model of the SP, describing learning outcomes and personal qualities		+		
39	5.	The qualification awarded upon completion of the EP should be clearly defined, explained and correspond to a certain level of NSC, QF-EHEA		+		
40	6.	The EP management should demonstrate the modular structure of the program based on ECTS, ensure that the structure of the content of the EP meets the goals set with a focus on achieving the planned learning outcomes of each graduate		+		
41	7.	, the SP management should ensure that the content of academic disciplines and learning outcomes correspond to each other and the level of study (bachelor's, master's, doctoral studies).			+	
42	8.	The SP management should demonstrate that the SP has external expertise		+		
43	9.	The SP management should provide evidence of the participation of students, teaching staff and other stakeholders in the development and quality assurance of the SP		+		
44	10.	The SP management should demonstrate the uniqueness of the educational program, its positioning in the educational market (regional/national/international)			+	
45	11.	An important factor is the ability to prepare students for professional certification		+		
46	12.	An important factor is the availability of joint *training (s).* and / or a two-degree SP with foreign universities		+		
		Total according to standard		**8**	**4**	
Standard "Continuous monitoring and periodic evaluation of the educational program"						
47	1.	The university must ensure that the structure and content of the educational program are reviewed, taking into account changes in the labor market, employers ' requirements, and social needs of society		+		
48	2.	The university must demonstrate that there is a documented procedure for monitoring and periodic evaluation to achieve the goal of the educational program and continuous improvement of the educational		**program+**		
Monitoring and periodic evaluation of the SP should consider:						
49	3.	the content of the program in the context of the latest achievements in science and technology in a particular discipline		+		
50	4.	changes in the needs of society and the professional environment		+		
51	5.	the workload, academic performance and graduation of students		+		
52	6.	the effectiveness of student assessment procedures		+		
53	7.	the needs and degree of satisfaction of students		+		
54	8.	compliance of the educational environment and SP		+		
55	9.	The management of the SP should publish information about changes to the SP, inform interested parties about any planned or undertaken actions within the framework of the SP			+	
56	10.	Support services should identify the needs of various groups of students and the degree of their satisfaction with the organization of training, teaching, assessment, and development of the SP as a whole		+		
		Total according to standard		**9**	**1**	
Standard "Student-centered learning, teaching and assessment of academicperformance"						
57	1.	The SP leadership should ensure respect and attention to different groups of students and their needs, provide them with flexible learning paths		+		

58	2.	The SP leadership should ensure that teaching is based on modern achievements of world science and practice in the field of training, use various modern teaching methods and assessment of learning outcomes that ensure the achievement of the EP goals, including competencies skills of performing scientific work at the required level		+		
59	3.	The SP management should determine the mechanisms for distributing the academic load of students between theory and practice within the SP, ensuring the development of the content and achievement of the goals of the SP by each graduate			+	
60	4.	An important factor is the availability of their own research in the field of teaching methods of SP disciplines		+		
61	5.	The university should ensure compliance with the procedures for evaluating learning outcomes			+	
62 The	6.	university should ensure consistency, transparency and objectivity of the learning outcomes assessment mechanism of the EE, publication of criteria and methods for evaluating learning outcomes in advance		+		
63	7.	Evaluators should be familiar with modern methods for evaluating learning outcomes and regularly improve their skills in this area		+		
64	8.	The EE management should demonstrate a feedback system on the use of various methods of evaluating learning outcomes. teaching methods and assessment of learning outcomes		+		
65	9.	The SP management should demonstrate support for students ' autonomy while providing guidance and assistance from the teacher		+		
66	10.	The SP management should demonstrate that there is a procedure in place to respond to student complaints		+		
		Total according to standard		**8**	**2**	
Standard "Students"						
67	1.	The university must demonstrate the policy of forming a contingent of students and ensure transparency and publication of procedures regulating the life cycle of students (from admission to completion).		+		
68	2.	The SP management should provide for special adaptation and support programs for newly enrolled and foreign students		+		
69	3.	The university should demonstrate that its actions comply 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 ensure that opportunity for external and internal academic mobility of students, as well as to assist them in obtaining external grants for training		+		
71	5.	The university should encourage students to self-educate and develop outside the main program (extracurricular activities)		+		
72	6.	An important factor is the availability of a mechanism for supporting gifted students		+		
73	7.	The university must demonstrate cooperation with other educational organizations and national centers of the " European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers " ENIC/NARIC in order to ensure comparable recognition of qualifications		+		
74	8.	The university should provide students with places of practice, demonstrate the procedure for promoting employment of graduates, maintaining communication with them		+		
75	9.	The university should demonstrate the procedure for issuing graduates with documents confirming their qualifications, including the achieved learning outcomes		+		
76	10.	The management The SP management should demonstrate that graduates of the program have skills that are in demand in the labor market and that these skills are really relevant		+		

77	11.	The The SP management should demonstrate that there is a mechanism for monitoring the employment and professional activities of graduates	+		
78	12.	An important factor is the presence of a functioning alumni association/association		+	
		Total according to the standard	**11**	**1**	

Standard "Teaching staff"

79	1.	The university must have an objective and transparent HR policy in the context of the SP, including hiring (including invited teaching staff), professional growth and development of personnel, 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, the goals of the SP		+	
81	3.	The SP management should demonstrate a 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 attract specialists from relevant industries with professional competencies corresponding to requirements of SP		+	
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 must demonstrate the wide use of teaching staff of information and communication technologies and software tools in the educational process (for example, on-line training, e-portfolio, MOOCs, etc.)		+	
86	8.	The university must 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 promote a culture of quality and academic integrity in higher education institutions, determine the contribution of teaching staff, including invited students, to achieving the goals of SP	+		
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	+		
		Total according to standard	**6**	**4**	

Standard "Educational resources and student support systems"

89	1.	The university must ensure that its infrastructure and educational resources, including material and technical resources, meet the goals	of the +		
90	2 educational program.	The SP management must demonstrate that classrooms, laboratories, and other facilities equipped with modern equipment are sufficient to meet the SP's goals	+		

The university must demonstrate that the information resources meet 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 training, modeling, databases, data analysis programs)	+		
92	4.	library resources, including the collection of educational, methodological and scientific literature on general education, basic and profile 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.	functioning 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 research work of teaching staff, employees, and students		+		
97	9.	The university should strive to ensure that the educational equipment and software used for mastering educational programs are similar to those used in the relevant sectors of the economy		+		
98	10.	The SP management should demonstrate the availability of support procedures for various groups of students, including informing and advising		+		
99	11.	The SP management should show that there are conditions for the student's progress along the individual educational path		+		
100	12.	The university should take into account the needs of various 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		+		
		Total according to standard		**13**		

Standard "Informing the public"

102	1.	The university guarantees that the published information is accurate, objective, up-to-date and reflects all areas of the university's activities within the framework		of the +		
103	2 educational program.	Public awareness should include supporting and explaining 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 persons		+		

Information about the educational program is objective, relevant and should include:

105	4.	the purpose and planned results of the SP, the assigned qualification		+		
106	5.	information about the system for evaluating students ' academic achievements		+		
107	6.	information about academic mobility programs and other forms of cooperation with partner universities and employers		+		
108	7.	information on opportunities for developing students ' personal and professional competencies and employment		opportunities+		
109	8.	data reflecting the positioning of the OP in the educational services market (at the regional, national, and international levels)		+		
110	9.	An important factor isthe publication on open resources of reliable information about teaching staff, in the context of personnel		+		
111	10.	The university must publish on its own web resource the audited financial statements on the OP		+		
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 publication of information about cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners, and educational organizations		+		
		Total according to standard		**12**		
		TOTAL	1	95	17	

Appendix 2. Evaluation table "Conclusion of the external Expert Commission" for SP 6B07115 Chemical engineering and processes

n\n	n\ n	Evaluation criteria	The position of the educational organization			
			Strong	is strong Satisfactory	Implies improvement	Unsatisfactory-Unsatisfactory
Standard "Educational program management"						
1	1.	The university should demonstrate the development of a goal and strategy for the development of SP based on the analysis of external and internal factors with a wide involvement of various 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 activities performed by contractors and partners (outsourcing), including the implementation of joint/two-degree education and academic mobility		+		
5	5.	The management of the SP ensures transparency in the development of the development plan of the SP based on an analysis of its functioning, real positioning of the university and orientation of its activities to meet the needs of students, the state, employers and other stakeholders		+		
6	6.	The management of the University demonstrates the functioning of mechanisms for forming and regularly reviewing the development plan of the University 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 university +		
7	7.	The SP management should involve representatives of groups of stakeholders, including employers, trainees and teaching staff, in the formation of the SP development plan		+		
8	8.	The SP management should demonstrate the individuality and uniqueness of the plan development of the SP, its consistency with national development priorities and the development strategy of the educational organization		+		
9	9.	The university must demonstrate a clear definition of those responsible for business processes within the SP, the distribution of job responsibilities of personnel, the division of functions of collegial bodies		+		
10	10.	The SP management ensures coordination of the activities of all persons involved in the development and management of the EP, and its continuous implementation, as well as involving all stakeholders in this process		+		
11	11.	The SP management should ensure 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 EP management should carry out risk management			+	
13	13.	The The EP management should ensure the participation of representatives of interested parties (employers, teaching staff students) as part of 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 The EP management must demonstrate its openness and accessibility to students, teaching staff, employers and others stakeholders		+		
16	16.	EP Management confirms training in educational management programs		+		
17	17.	The SP management should strive to ensure that progress made since the last external quality assurance procedure is taken into account in preparation for the next procedure			+	
		Total according to the standard		**15**	**2**	
Standard "Information Management and reporting"						
18	1.	The university should ensure the functioning of the system for collecting, analyzing and managing information based on modern information and communication technologies and software tools			+	
19	2.	The SP management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system		+		
20	3.	The SP management demonstrates the presence of a reporting system, reflecting the activities of all structural divisions and departments within the framework of the EP, including an assessment of their performance		+		
21	4.	The university should determine the frequency, forms and methods of evaluating the management of the EP, the activities of collegial bodies and structural divisions, and top management		+		
22	5.	The university should demonstrate a mechanism for ensuring information security, 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 EP should demonstrate the existence of communication mechanisms with students, employees and other stakeholders, including conflict resolution		+		
25	8.	The university should measure the degree of satisfaction with the needs of students, teaching staff and staff within the framework of the EP and demonstrate evidence of addressing the identified shortcomings		+		
26	9.	The university should evaluate the effectiveness and efficiency of its activities in the context of the SP			+	
The information collected and analyzed by the university within the framework of the SP should take into account:						
27	10.	key performance indicators	+			
28	11.	dynamics of the number of students in the context of forms and types		+		
29	12.	level of academic performance, student achievements and deductions		+		
30	13.	satisfaction of students with the implementation of the SP 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, teaching staff and staff must document their consent to the processing of personal data		+		
34	17.	The management of the SP should help to provide the necessary information in the relevant fields of science		+		
		Total according to standard	**1**	**13**	**3**	
Standard 3 "Development and approval ofthe educational program"						
35	1.	The university must demonstrate the existence of a documented procedure for the development of the educational program and its approval at the institutional level		+		
36	2.	The university must demonstrate the compliance of the developed educational program with the established goals and planned learning outcomes			+	

№	№	Criterion				
37	3.	The management of the educational program must determine the impact of disciplines and professional practices on the formation of learning outcomes		+		
38	4.	The university demonstrates the existence of a graduate model of the EP, describing learning outcomes and personal qualities	+			
39	5.	The qualification awarded upon completion of the EP should be clearly defined, explained and correspond to a certain level of NSC, QF-EHEA	+			
40	6.	The SP management should demonstrate the modular structure of the program based on ECTS, ensure that the structure of the content of the SP meets the goals set with a focus on achieving the planned learning outcomes of each graduate	+			
41	7.	, the SP Management should ensure that the content of academic disciplines and learning outcomes correspond to each other and the level of study (bachelor's, master's, doctoral studies).		+		
42	8.	The SP management should demonstrate that the SP has external expertise	+			
43	9.	The SP management should provide evidence of the participation of students, teaching staff and other stakeholders in the development and quality assurance of the SP	+			
44	10.	The SP management should demonstrate the uniqueness of the educational program, its positioning in the educational market (regional/national/international)		+		
45	11.	An important factor is the ability to prepare students for professional certification	+			
46	12.	An important factor is the availability of joint *training (s).* and / or a two-degree SP with foreign universities	+			
		Total according to standard	**8**	**4**		
Standard "Continuous monitoring and periodic evaluation of the educational program"						
47	1.	The university must ensure that the structure and content of the educational program are reviewed, taking into account changes in the labor market, employers ' requirements, and social needs of society	+			
48	2.	The university must demonstrate that there is a documented procedure for monitoring and periodic evaluation to achieve the goal of the educational program and continuous improvement of the educational	program+			
Monitoring and periodic evaluation of the EP should consider:						
49	3.	the content of the program in the context of the latest achievements in science and technology in a particular discipline	+			
50	4.	changes in the needs of society and the professional environment	+			
51	5.	the workload, academic performance and graduation of students	+			
52	6.	the effectiveness of student assessment procedures	+			
53	7.	the needs and degree of satisfaction of students	+			
54	8.	compliance of the educational environment and SP	+			
55	9.	The management of the SP should publish information about changes to the SP, inform interested parties about any planned or undertaken actions within the framework of the SP		+		
56	10.	Support services should identify the needs of various groups of students and the degree of their satisfaction with the organization of training, teaching, assessment, and development of the SP as a whole	+			
		Total according to standard	**9**	**1**		
Standard "Student-centered learning, teaching and assessment of academicperformance"						
57	1.	The SP leadership should ensure respect and attention to different groups of students and their needs, provide them with flexible learning paths	+			
58	2.	The SP leadership should ensure that teaching is based on modern achievements of world science and practice in the field of training, use various modern teaching methods and assessment of learning outcomes that ensure	+			

		the achievement of the SP goals, including competencies skills of performing scientific work at the required level			
59	3.	The SP management should determine the mechanisms for distributing the academic load of students between theory and practice within the SP, ensuring the development of the content and achievement of the goals of the SP by each graduate		+	
60	4.	An important factor is the availability of their own research in the field of teaching methods of SP disciplines	+		
61	5.	The university should ensure compliance with the procedures for evaluating learning outcomes		+	
62 The	6.	university should ensure consistency, transparency and objectivity of the learning outcomes assessment mechanism of the EE, publication of criteria and methods for evaluating learning outcomes in advance	+		
63	7.	Evaluators should be familiar with modern methods for evaluating learning outcomes and regularly improve their skills in this area	+		
64	8.	The EE management should demonstrate a feedback system on the use of various methods of evaluating learning outcomes. teaching methods and assessment of learning outcomes	+		
65	9.	The EP management should demonstrate support for students ' autonomy while providing guidance and assistance from the teacher	+		
66	10.	The EP management should demonstrate that there is a procedure in place to respond to student complaints	+		
		Total according to standard	**8**	**2**	
Standard "Students"					
67	1.	The university must demonstrate the policy of forming a contingent of students and ensure transparency and publication of procedures regulating the life cycle of students (from admission to completion).	+		
68	2.	The EP management should provide for special adaptation and support programs for newly enrolled and foreign students	+		
69	3.	The university should demonstrate that its actions comply 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 ensure that opportunity for external and internal academic mobility of students, as well as to assist them in obtaining external grants for training		+	
71	5.	The university should encourage students to self-educate and develop outside the main program (extracurricular activities)	+		
72	6.	An important factor is the availability of a mechanism for supporting gifted students	+		
73	7.	The university must demonstrate cooperation with other educational organizations and national centers of the " European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers " ENIC/NARIC in order to ensure comparable recognition of qualifications	+		
74	8.	The university should provide students with places of practice, demonstrate the procedure for promoting employment of graduates, maintaining communication with them	+		
75	9.	The university should demonstrate the procedure for issuing graduates with documents confirming their qualifications, including the achieved learning outcomes	+		
76	10.	The management The EP management should demonstrate that graduates of the program have skills that are in demand in the labor market and that these skills are really relevant	+		
77	11.	The The EP management should demonstrate that there is a mechanism for monitoring the employment and professional activities of graduates	+		
78	12.	An important factor is the presence of a functioning alumni association/association		+	

				10	2	
		Total according to the standard		10	2	
Standard "Academic staff"						
79	1.	The university must have an objective and transparent HR policy in the context of the SP, including hiring (including invited teaching staff), professional growth and development of personnel, 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, the goals of the SP			+	
81	3.	The SP management should demonstrate a 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 attract specialists from relevant industries with professional competencies corresponding to according to the requirements of SP			+	
84, the	6.	university must demonstrate the existence of a mechanism for motivating the professional and personal development of teaching staff.				
85	7.	The university must demonstrate the wide use of teaching staff of information and communication technologies and software tools in the educational process (for example, on-line training, e-portfolio, MOOCs, etc.)			+	
86	8.	The university must 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 promote a culture of quality and academic integrity in higher education institutions, determine the contribution of teaching staff, including invited students, to achieving the goals of SP		+		
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		+		
		Total according to standard		6	4	
Standard "Educational resources and student support systems"						
89	1.	The university must ensure that its infrastructure and educational resources, including material and technical resources, meet the goals		of the +		
90	2 educational program.	The SP management must demonstrate that classrooms, laboratories, and other facilities equipped with modern equipment are sufficient to meet the SP's goals		+		
The university must demonstrate that the information resources meet 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 training, modeling, databases, data analysis programs)		+		
92	4.	library resources, including the collection of educational, methodological and scientific literature on general education, basic and profile 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.	functioning 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 research work of teaching staff, employees, and students		+		

97	9.	The university should strive to ensure that the educational equipment and software used for mastering educational programs are similar to those used in the relevant sectors of the economy		+		
98	10.	The SP management should demonstrate the availability of support procedures for various groups of students, including informing and advising		+		
99	11.	The SP management should show that there are conditions for the student's progress along the individual educational path		+		
100	12.	The university should take into account the needs of various 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		+		
		Total according to standard		**13**		
Standard "Informing the public"						
102	1.	The university guarantees that the published information is accurate, objective, up-to-date and reflects all areas of the university's activities within the framework		of the +		
103	2 edu cati onal pro gra m.	Public awareness should include supporting and explaining 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 persons		+		
Information about the educational program is objective, relevant and should include:						
105	4.	the purpose and planned results of the SP, the assigned qualification		+		
106	5.	information about the system for evaluating students ' academic achievements		+		
107	6.	information about academic mobility programs and other forms of cooperation with partner universities and employers		+		
108	7.	information on opportunities for developing students ' personal and professional competencies and employment		opp ortu niti es+		
109	8.	data reflecting the positioning of the SP in the educational services market (at the regional, national, and international levels)		+		
110	9.	An important factor isthe publication on open resources of reliable information about teaching staff, in the context of personnel		+		
111	10.	The university must publish on its own web resource the audited financial statements on the SP		+		
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 publication of information about cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners, and educational organizations		+		
		Total according to standard		**12**		
		TOTAL	**1**	**94**	**18**	

Appendix 3. Evaluation table "Conclusion of the external expert Commission" for SP 7M05311 Chemistry

n\n	n\ n	Evaluation criteria	Strong	is strong Satisfactory	Implies improvement	Unsatisfactory-Unsatisfactory
					The position of the educational organization	
Standard "Educational program management"						
1	1.	The university should demonstrate the development of a goal and strategy for the development of SP based on the analysis of external and internal factors with a wide involvement of various 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 activities performed by contractors and partners (outsourcing), including the implementation of joint/two-degree education and academic mobility		+		
5	5.	The management of the SP ensures transparency in the development of the development plan of the SP based on an analysis of its functioning, real positioning of the university and orientation of its activities to meet the needs of students, the state, employers and other stakeholders		+		
6	6.	The management of the University demonstrates the functioning of mechanisms for forming and regularly reviewing the development plan of the University 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 university +		
7	7.	The SP management should involve representatives of groups of stakeholders, including employers, trainees and teaching staff, in the formation of the SP development plan		+		
8	8.	The SP management should demonstrate the individuality and uniqueness of the plan development of the SP, its consistency with national development priorities and the development strategy of the educational organization		+		
9	9.	The university must demonstrate a clear definition of those responsible for business processes within the EP, the distribution of job responsibilities of personnel, the division of functions of collegial bodies		+		
10	10.	The EP management ensures coordination of the activities of all persons involved in the development and management of the EP, and its continuous implementation, as well as involving all stakeholders in this process		+		
11	11.	The EP management should ensure 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 EP management should carry out risk management			+	
13	13.	The The EP management should ensure the participation of representatives of interested parties (employers, teaching staff students) as part of 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 The EP management must demonstrate its openness and accessibility to students, teaching staff, employers and others stakeholders		+	
16	16.	EP Management confirms training in educational management programs		+	
17	17.	The EP management should strive to ensure that progress made since the last external quality assurance procedure is taken into account in preparation for the next procedure			+
		Total according to the standard		**15**	**2**
Standard "Information Management and reporting"					
18	1.	The university should ensure the functioning of the system for collecting, analyzing and managing information based on modern information and communication technologies and software tools			+
19	2.	The SP management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system		+	
20	3.	The SP management demonstrates the presence of a reporting system, reflecting the activities of all structural divisions and departments within the framework of the EP, including an assessment of their performance		+	
21	4.	The university should determine the frequency, forms and methods of evaluating the management of the EP, the activities of collegial bodies and structural divisions, and top management		+	
22	5.	The university should demonstrate a mechanism for ensuring information security, 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 EP should demonstrate the existence of communication mechanisms with students, employees and other stakeholders, including conflict resolution		+	
25	8.	The university should measure the degree of satisfaction with the needs of students, teaching staff and staff within the framework of the EP and demonstrate evidence of addressing the identified shortcomings		+	
26	9.	The university should evaluate the effectiveness and efficiency of its activities in the context of the SP			+
The information collected and analyzed by the university within the framework of the SP should take into account:					
27	10.	key performance indicators	+		
28	11.	dynamics of the number of students in the context of forms and types		+	
29	12.	level of academic performance, student achievements and deductions		+	
30	13.	satisfaction of students with the implementation of the SP 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, teaching staff and staff must document their consent to the processing of personal data		+	
34	17.	The management of the SP should help to provide the necessary information in the relevant fields of science		+	
		Total according to standard	**1**	**13**	**3**
Standard "Development and approval ofthe educational program"					

35	1.	The university must demonstrate the existence of a documented procedure for the development of the educational program and its approval at the institutional level		+		
36	2.	The university must demonstrate the compliance of the developed educational program with the established goals and planned learning outcomes		+		
37	3.	The management of the educational program must determine the impact of disciplines and professional practices on the formation of learning outcomes		+		
38	4.	The university demonstrates the existence of a graduate model of the EP, describing learning outcomes and personal qualities		+		
39	5.	The qualification awarded upon completion of the EP should be clearly defined, explained and correspond to a certain level of NSC, QF-EHEA		+		
40	6.	The EP management should demonstrate the modular structure of the program based on ECTS, ensure that the structure of the content of the EP meets the goals set with a focus on achieving the planned learning outcomes of each graduate		+		
41	7.	, the SP management should ensure that the content of academic disciplines and learning outcomes correspond to each other and the level of study (bachelor's, master's, doctoral studies).			+	
42	8.	The SP management should demonstrate that the OP has external expertise		+		
43	9.	The SP management should provide evidence of the participation of students, teaching staff and other stakeholders in the development and quality assurance of the SP		+		
44	10.	The SP management should demonstrate the uniqueness of the educational program, its positioning in the educational market (regional/national/international)		+		
45	11.	An important factor is the ability to prepare students for professional certification		+		
46	12.	An important factor is the availability of joint *training (s).* and / or a two-degree SP with foreign universities		+		
		Total according to standard		**11**	**1**	

Standard "Continuous monitoring and periodic evaluation of the educational program"

47	1.	The university must ensure that the structure and content of the educational program are reviewed, taking into account changes in the labor market, employers ' requirements, and social needs of society		+		
48	2.	The university must demonstrate that there is a documented procedure for monitoring and periodic evaluation to achieve the goal of the educational program and continuously improve the educational		program+		

Monitoring and periodic evaluation of the SP should consider:

49	3.	the content of the program in the context of the latest achievements in science and technology in a particular discipline		+		
50	4.	changes in the needs of society and the professional environment		+		
51	5.	the workload, academic performance and graduation of students		+		
52	6.	the effectiveness of student assessment procedures		+		
53	7.	the needs and degree of satisfaction of students		+		
54	8.	compliance of the educational environment and SP		+		
55	9.	The management of the SP should publish information about changes to the SP, inform interested parties about any planned or undertaken actions within the framework of the SP			+	
56	10.	Support services should identify the needs of various groups of students and the degree of their satisfaction with the organization of training, teaching, assessment, and development of the SP as a whole		+		
		Total according to standard		**9**	**1**	

		Standard "Student-centered learning, teaching and assessment of academic performance"			
57	1.	The SP leadership should ensure respect and attention to different groups of students and their needs, provide them with flexible learning paths		+	
58	2.	The EP leadership should ensure that teaching is based on modern achievements of world science and practice in the field of training, use various modern teaching methods and assessment of learning outcomes that ensure the achievement of the SP goals, including competencies skills of performing scientific work at the required level		+	
59	3.	The SP management should determine the mechanisms for distributing the academic load of students between theory and practice within the SP, ensuring the development of the content and achievement of the goals of the SP by each graduate		+	
60	4.	An important factor is the availability of their own research in the field of teaching methods of SP disciplines		+	
61	5.	The university should ensure compliance with the procedures for evaluating learning outcomes			+
62 The	6.	university should ensure consistency, transparency and objectivity of the learning outcomes assessment mechanism of the EE, publication of criteria and methods for evaluating learning outcomes in advance		+	
63	7.	Evaluators should be familiar with modern methods for evaluating learning outcomes and regularly improve their skills in this area		+	
64	8.	The EE management should demonstrate a feedback system on the use of various methods of evaluating learning outcomes. teaching methods and assessment of learning outcomes		+	
65	9.	The SP management should demonstrate support for students ' autonomy while providing guidance and assistance from the teacher		+	
66	10.	The SP management should demonstrate that there is a procedure in place to respond to student complaints		+	
		Total according to standard	**9**	**1**	
		Standard "Students"			
67	1.	The university must demonstrate the policy of forming a contingent of students and ensure transparency and publication of procedures regulating the life cycle of students (from admission to completion).		+	
68	2.	The EP management should provide for special adaptation and support programs for newly enrolled and foreign students		+	
69	3.	The university should demonstrate that its actions comply 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 ensure that opportunity for external and internal academic mobility of students, as well as to assist them in obtaining external grants for training		+	
71	5.	The university should encourage students to self-educate and develop outside the main program (extracurricular activities)		+	
72	6.	An important factor is the availability of a mechanism for supporting gifted students		+	
73	7.	The university must demonstrate cooperation with other educational organizations and national centers of the " European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers " ENIC/NARIC in order to ensure comparable recognition of qualifications		+	
74	8.	The university should provide students with places of practice, demonstrate the procedure for promoting employment of graduates, maintaining communication with them		+	

75	9.	The university should demonstrate the procedure for issuing graduates with documents confirming their qualifications, including the achieved learning outcomes	+		
76	10.	The management The EP management should demonstrate that graduates of the program have skills that are in demand in the labor market and that these skills are really relevant	+		
77	11.	The The EP management should demonstrate that there is a mechanism for monitoring the employment and professional activities of graduates	+		
78	12.	An important factor is the presence of a functioning alumni association/association		+	
		Total according to the standard	**11**	**1**	

Standard "Academic staff"

79	1.	The university must have an objective and transparent HR policy in the context of the SP, including hiring (including invited teaching staff), professional growth and development of personnel, 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, the goals of the SP	+		
81	3.	The SP management should demonstrate a 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 attract specialists from relevant industries with professional competencies corresponding to requirements of SP		+	
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 must demonstrate the wide use of teaching staff of information and communication technologies and software tools in the educational process (for example, on-line training, e-portfolio, MOOCs, etc.)		+	
86	8.	The university must 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 promote a culture of quality and academic integrity in higher education institutions, determine the contribution of teaching staff, including invited students, to achieving the goals of SP	+		
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	+		
		Total according to standard	**7**	**3**	

Standard "Educational resources and student support systems"

89	1.	The university must ensure that its infrastructure and educational resources, including material and technical resources, meet the goals	of the +		
90	2 educational program.	The SP management must demonstrate that classrooms, laboratories, and other facilities equipped with modern equipment are sufficient to meet the SP's goals	+		

The university must demonstrate that the information resources meet 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 training, modeling, databases, data analysis programs)	+		

92	4.	library resources, including the collection of educational, methodological and scientific literature on general education, basic and profile 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.	functioning 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 research work of teaching staff, employees, and students		+		
97	9.	The university should strive to ensure that the educational equipment and software used for mastering educational programs are similar to those used in the relevant sectors of the economy		+		
98	10.	The SP management should demonstrate the availability of support procedures for various groups of students, including informing and advising		+		
99	11.	The SP management should show that there are conditions for the student's progress along the individual educational path		+		
100	12.	The university should take into account the needs of various 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		+		
		Total according to standard		**13**		

Standard "Informing the public"

102	1.	The university guarantees that the published information is accurate, objective, up-to-date and reflects all areas of the university's activities within the framework		of the +		
103	2 educational program.	Public awareness should include supporting and explaining 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 persons		+		

Information about the educational program is objective, relevant and should include:

105	4.	the purpose and planned results of the SP, the assigned qualification		+		
106	5.	information about the system for evaluating students ' academic achievements		+		
107	6.	information about academic mobility programs and other forms of cooperation with partner universities and employers		+		
108	7.	information on opportunities for developing students ' personal and professional competencies and employment		opportunities+		
109	8.	data reflecting the positioning of the SP in the educational services market (at the regional, national, and international levels)		+		
110	9.	An important factor isthe publication on open resources of reliable information about teaching staff, in the context of personnel		+		
111	10.	The university must publish on its own web resource the audited financial statements on the SP		+		
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 publication of information about cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners, and educational organizations		+		
		Total for standard		**12**		
		TOTAL	**1**	**100**	**12**	

Appendix 4. Evaluation table "Conclusion of the external Expert Commission" for SP 7M07112 Chemical engineering and processes

p\n	p\n	evaluation Criteria	, the organization of education			
			Strong	Suit-tive	Involves improving	Unsatisfa-tional
Standard "educational program"						
1	1.	the University must demonstrate the development of goals and strategies for the development of SP based on the analysis of external and internal factors, with wider involvement of diverse stakeholders		+		
2	2.	quality assurance Policy needs to reflect the relationship between research, teaching and learning of		+		
3	3.	, the University demonstrates the development of a quality assurance culture		+		
4	4.	Commitment to quality assurance should relate to any activity carried out by contractors and partners (outsourcing), including the implementation of joint/double-diploma education, academic mobility		+		
5	5.	SP Guide provides transparency on the development of the plan of development of SP based on the analysis of its functioning, the actual positioning of the University and focus its activities to meet the needs of students, the state, employers and other stakeholders		+		
6	6.	SP Guide demonstrates the mechanisms of formation and regular review of the plan for the development of SP and monitoring its implementation, and assessment of achievement of learning objectives, meet the needs of students, employers and society, decision-making, aimed at continuous improvement of SP		+		
7	7.	Guide SP should involve representatives of stakeholder groups, including employers, students and teachers to the formation of a plan of development SP		+		
8	8.	Manual SP must demonstrate individuality and unikalnosti development of the SP, its consistency with national development priorities and the development strategy of the educational organization		+		
9	9.	The university must demonstrate a clear definition of those responsible for business processes within the SP, the distribution of job responsibilities of personnel, the division of functions of collegial bodies		+		
10	10.	The SP management ensures coordination of the activities of all persons involved in the development and management of the SP, and its continuous implementation, as well as involving all stakeholders in this process		+		
11	11.	The SP management should ensure 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 SP management should carry out risk management			+	

13	13.	The SP management should ensure the participation of representatives of interested parties (employers, teaching staff students) as part of 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 SP, including the analysis and implementation of innovative proposals		+		
15	15.	The SP management must demonstrate its openness and accessibility to students, teaching staff, employers and others stakeholders		+		
16	16.	SP Management confirms training in educational management programs		+		
17	17.	The SP management should strive to ensure that progress made since the last external quality assurance procedure is taken into account in preparation for the next procedure			+	
		Total according to the standard		**15**	**2**	
Standard "Information Management and reporting"						
18	1.	The university should ensure the functioning of the system for collecting, analyzing and managing information based on modern information and communication technologies and software tools			+	
19	2.	The SP management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system		+		
20	3.	The SP management demonstrates the presence of a reporting system, reflecting the activities of all structural divisions and departments within the framework of the EP, including an assessment of their performance		+		
21	4.	The university should determine the frequency, forms and methods of evaluating the management of the EP, the activities of collegial bodies and structural divisions, and top management		+		
22	5.	The university should demonstrate a mechanism for ensuring information security, 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 EP should demonstrate the existence of communication mechanisms with students, employees and other stakeholders, including conflict resolution		+		
25	8.	The university should measure the degree of satisfaction with the needs of students, teaching staff and staff within the framework of the EP and demonstrate evidence of addressing the identified shortcomings		+		
26	9.	The university should evaluate the effectiveness and efficiency of its activities in the context of the SP			+	
The information collected and analyzed by the university within the framework of the SP should take into account:						
27	10.	key performance indicators	+			
28	11.	dynamics of the number of students in the context of forms and types		+		
29	12.	level of academic performance, student achievements and deductions		+		
30	13.	satisfaction of students with the implementation of the SP 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, teaching staff and staff must document their consent to the processing of personal data		+		

34	17.	The management of the SP should help to provide the necessary information in the relevant fields of science		+		
		Total according to standard	**1**	**13**	**3**	

Standard "Development and approval ofthe educational program"

35	1.	The university must demonstrate the existence of a documented procedure for the development of the educational program and its approval at the institutional level		+		
36	2.	The university must demonstrate the compliance of the developed educational program with the established goals and planned learning outcomes		+		
37	3.	The management of the educational program must determine the impact of disciplines and professional practices on the formation of learning outcomes		+		
38	4.	The university demonstrates the existence of a graduate model of the EP, describing learning outcomes and personal qualities		+		
39	5.	The qualification awarded upon completion of the EP should be clearly defined, explained and correspond to a certain level of NSC, QF-EHEA		+		
40	6.	The SP management should demonstrate the modular structure of the program based on ECTS, ensure that the structure of the content of the SP meets the goals set with a focus on achieving the planned learning outcomes of each graduate		+		
41	7.	, the SP management should ensure that the content of academic disciplines and learning outcomes correspond to each other and the level of study (bachelor's, master's, doctoral studies).			+	
42	8.	The SP management should demonstrate that the OP has external expertise		+		
43	9.	The SP management should provide evidence of the participation of students, teaching staff and other stakeholders in the development and quality assurance of the SP		+		
44	10.	The SP management should demonstrate the uniqueness of the educational program, its positioning in the educational market (regional/national/international)		+		
45	11.	An important factor is the ability to prepare students for professional certification		+		
46	12.	An important factor is the availability of joint *training (s).* and / or a two-degree SP with foreign universities		+		
		Total according to standard		**11**	**1**	

Standard "Continuous monitoring and periodic evaluation of the educational program"

47	1.	The university must ensure that the structure and content of the educational program are reviewed, taking into account changes in the labor market, employers ' requirements, and social needs of society		+		
48	2.	The university must demonstrate that there is a documented procedure for monitoring and periodic evaluation to achieve the goal of the educational program and continuously improve the educational		program+		

Monitoring and periodic evaluation of the EP should consider:

49	3.	the content of the program in the context of the latest achievements in science and technology in a particular discipline		+		
50	4.	changes in the needs of society and the professional environment		+		
51	5.	the workload, academic performance and graduation of students		+		
52	6.	the effectiveness of student assessment procedures		+		
53	7.	the needs and degree of satisfaction of students		+		
54	8.	compliance of the educational environment and SP		+		
55	9.	The management of the SP should publish information about changes to the OP, inform interested parties about any planned or undertaken actions within the framework of the SP			+	

56	10.	Support services should identify the needs of various groups of students and the degree of their satisfaction with the organization of training, teaching, assessment, and development of the SP as a whole		+		
		Total according to standard		**9**	**1**	

Standard "Student-centered learning, teaching and assessment of academicperformance"

57	1.	The EP leadership should ensure respect and attention to different groups of students and their needs, provide them with flexible learning paths		+		
58	2.	The EP leadership should ensure that teaching is based on modern achievements of world science and practice in the field of training, use various modern teaching methods and assessment of learning outcomes that ensure the achievement of the EP goals, including competencies skills of performing scientific work at the required level		+		
59	3.	The EP management should determine the mechanisms for distributing the academic load of students between theory and practice within the EP, ensuring the development of the content and achievement of the goals of the EP by each graduate		+		
60	4.	An important factor is the availability of their own research in the field of teaching methods of SP disciplines		+		
61	5.	The university should ensure compliance with the procedures for evaluating learning outcomes			+	
62 The	6.	university should ensure consistency, transparency and objectivity of the learning outcomes assessment mechanism of the EE, publication of criteria and methods for evaluating learning outcomes in advance		+		
63	7.	Evaluators should be familiar with modern methods for evaluating learning outcomes and regularly improve their skills in this area		+		
64	8.	The EE management should demonstrate a feedback system on the use of various methods of evaluating learning outcomes. teaching methods and assessment of learning outcomes		+		
65	9.	The EP management should demonstrate support for students ' autonomy while providing guidance and assistance from the teacher		+		
66	10.	The EP management should demonstrate that there is a procedure in place to respond to student complaints		+		
		Total according to standard		**9**	**1**	

Standard "Students"

67	1.	The university must demonstrate the policy of forming a contingent of students and ensure transparency and publication of procedures regulating the life cycle of students (from admission to completion).		+		
68	2.	The EP management should provide for special adaptation and support programs for newly enrolled and foreign students		+		
69	3.	The university should demonstrate that its actions comply 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 ensure that opportunity for external and internal academic mobility of students, as well as to assist them in obtaining external grants for training			+	
71	5.	The university should encourage students to self-educate and develop outside the main program (extracurricular activities)		+		
72	6.	An important factor is the availability of a mechanism for supporting gifted students		+		
73	7.	The university must demonstrate cooperation with other educational organizations and national centers of the " European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers " ENIC/NARIC in order to ensure comparable recognition of qualifications		+		

№	№	Criteria			
74	8.	The university should provide students with places of practice, demonstrate the procedure for promoting employment of graduates, maintaining communication with them	+		
75	9.	The university should demonstrate the procedure for issuing graduates with documents confirming their qualifications, including the achieved learning outcomes	+		
76	10.	The management The EP management should demonstrate that graduates of the program have skills that are in demand in the labor market and that these skills are really relevant	+		
77	11.	The The EP management should demonstrate that there is a mechanism for monitoring the employment and professional activities of graduates	+		
78	12.	An important factor is the presence of a functioning alumni association/association		+	
		Total according to the standard	**10**	**2**	

Standard "Academic staff"

№	№	Criteria			
79	1.	The university must have an objective and transparent HR policy in the context of the SP, including hiring (including invited academic staff), professional growth and development of personnel, 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, the goals of the SP	+		
81	3.	The SP management should demonstrate a 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 attract specialists from relevant industries with professional competencies corresponding to requirements of SP		+	
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 must demonstrate the wide use of teaching staff of information and communication technologies and software tools in the educational process (for example, on-line training, e-portfolio, MOOCs, etc.)		+	
86	8.	The university must 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 promote a culture of quality and academic integrity in higher education institutions, determine the contribution of teaching staff, including invited students, to achieving the goals of SP	+		
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	+		
		Total according to standard	**7**	**3**	

Standard "Educational resources and student support systems"

№	№	Criteria			
89	1.	The university must ensure that its infrastructure and educational resources, including material and technical resources, meet the goals	of the +		
90	2 educational program.	The SP management must demonstrate that classrooms, laboratories, and other facilities equipped with modern equipment are sufficient to meet the SP's goals	+		

The university must demonstrate that the information resources meet 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 training, modeling, databases, data analysis programs)		+		
92	4.	library resources, including the collection of educational, methodological and scientific literature on general education, basic and profile 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.	functioning 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 research work of teaching staff, employees, and students		+		
97	9.	The university should strive to ensure that the educational equipment and software used for mastering educational programs are similar to those used in the relevant sectors of the economy		+		
98	10.	The SP management should demonstrate the availability of support procedures for various groups of students, including informing and advising		+		
99	11.	The SP management should show that there are conditions for the student's progress along the individual educational path		+		
100	12.	The university should take into account the needs of various 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		+		
		Total according to standard		**13**		
Standard "Informing the public"						
102	1.	The university guarantees that the published information is accurate, objective, up-to-date and reflects all areas of the university's activities within the framework		of the +		
103	2 educational program.	Public awareness should include supporting and explaining 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 persons		+		
Information about the educational program is objective, relevant and should include:						
105	4.	the purpose and planned results of the SP, the assigned qualification		+		
106	5.	information about the system for evaluating students ' academic achievements		+		
107	6.	information about academic mobility programs and other forms of cooperation with partner universities and employers		+		
108	7.	information on opportunities for developing students ' personal and professional competencies and employment		opportunities+		
109	8.	data reflecting the positioning of the SP in the educational services market (at the regional, national, and international levels)		+		
110	9.	An important factor isthe publication on open resources of reliable information about teaching staff, in the context of personnel		+		
111	10.	The university must publish on its own web resource the audited financial statements on the SP		+		

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 publication of information about cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners, and educational organizations		+		
		Total according to standard		**12**		
		TOTAL	**1**	**99**	**13**	

Date and time *(local time, GMT+5)*	HEC's work with target groups	Last name, first name, patronymic and position of target group participants	Venue
		May 17, 2024	
16.00-17.00	HEC preliminary meeting *(discussion of key issues and the program of the visit)*	*IAAR External Experts*	Join Zoom Conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
		Day 1: May 23, 2024	
09.00-09.30	Distribution of responsibility of experts, solution of organizational issues	*External experts IAAR*	Rector's office, office # 404 Connect to the Zoom conference https://us02web.zoom.us/j/9623882483 https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
09.30-10.0000	Meeting with the Chairman of the Management Board-Rector	1. Chairman of the Management Board – Acting RectorA. *Orynbayevseitzhanaueszhanovich*, PhD, Associate Professor	Rector's Office, Academic Council Meeting Room, 4th floor, No.403 Join the Zoom conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
10.00-10.15	Technical break	*IAAR External experts*	Rectorate Office No. 404
10.15-11.0000	Meeting with Vice-Rectors	2. Member of the Management Board-Vice-Rector for Strategic Development Yessimovasholpanaltynbekovna, *Yessimovasholpanaltynbekovna,* Doctor of Economics, Professor 3. Director for academic Affairs *alimbaeva Saule Kurmanaevka*, K. SOC. n, acting associate Professor 4. , the Member of the management Board-Vice-rector for science and digitalization*Orynbasarovich*, doctor Phd, associate Professor,	administration, the hall of the Academic Council, 4th floor, No.403 to connect to the conference Zoom https://us02web.zoom.us/j/9623882483 the conference ID: 962 388 2483

		5. member of the management Board-Vice-rector for socio-kulturkalaset to*Turlybek Aslan Adilkhanovich*, doctor Phd 6. member of the management Board-Vice-rector for development of the infrastructure of *Salamancasalamanca*	
11.00-11.15	Technical break	*External experts of the IAAR*	Administration, office No. 404
11.15-12.00	Meeting with heads of structural divisions of	*1.* the head of the educational-methodical Department *of Maybewedidntexistyet* *2.* Head of online learning*Bagirova Svetlana Temirkhanovna* *3.* head of the center for career and business partnership*erzhanova World Adygeia* *4.* Director of the office of the Registrar *Mercurycontaminated* *5.* Head of marketing and career guidance *nazarmukhamedov the* *6.* Head of digital archive *coleopterologicznego the* *7.* head of the Department of strategic development of*Maribelguardiacogi* *8.* Head of strategic planning and coordination *televisietoestellen the* *9.* head of the Department of accreditation rankings and quality assurance *balibeachgolfcourse.com the* 10. Head of international relations Department of *Isabellasoprano* *11.* the head of the Center of advanced training and retraining of personnel *lambeosaurinae the* *12.* head of the Library and information center *Organohalogenated* *13.* Deputy responsible Secretary of the admission Commission*Abildayev, Aydar Abubakirovich* *14.* Director of the Department of science and commercialization of*Kardashiankourtney* *15.* Head of Department of scientific-research activities *Arat* *16.* head of the Department of commercialization of*Tuneweargamehandle* 17. Head of project management and digitalization *T.LeGENova Dina M±ratYZ*	Kasenovaaymankalmakhanovna Rector's Office, Academic Council meeting Room, 4th floor, No.403 Connect to the Zoom conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483

		18. Head of technical support and IT-support *ЖаукашкановАдильбекКұдайбергенұлы* 19. Editor of the newspaper "University Tynysy" *BST GLBT Berkiz* *20.* Chief operating and technical Department*of Platunov Ahmed Mursal oglu* *21.* Chief accountant*americaalone the* *22.* head of the personnel management service*ismuhambetov the* 23. Head of the office of *Arumainayagam* *24.* Head of legal services *Sambetov Serik Torosowicz* *25.* Director and*statelistand"Dulatyuniversity"Abdrasilovauly* *26.* Head of planning of ekonomicheskoye*Museoviraston* *27.* Chief Specialist of the Department of Accounting and Student *Movement*	
12.00-12.15	Technical break	*IAAR external experts*	Rectorate office No. 404
12.15-13.00	Meeting with deans / directors of institutes (schools)	*Dean of the Faculty of Technology*	Shardarbekmukhamedzhanshardarbekuly Rector's Office, Academic Council meeting Room, 4th floor, No.403 Join the Zoom conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
13.00-14.00	*Lunch break*	*IAAR External Experts*	
14.00-14.10	HEC work IAAR	*External experts*	Rectorate office 404 Join the Zoom conference https://us02web.zoom.us/j/9623882483 https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
14.10-15.00	Meeting with heads of departments and / or heads of OP	*1.* Head of the Department of Food Production and Biotechnology*Kenzhekhodzhaev Mahamedkali Dosmanovich* *2.* Head of the Department of Textiles, Materials Science and Standardization*КауымбаевРахымжанТоктарбаевич*	Rector's Office, Academic Council meeting Room, 4th floor, No.403 Join the Zoom conference

		3. Head of the Department of Applied Informatics and Programming*Akhmetzhanovmadiakhmetzhanovich* 4.I. o. Head of the Department "Information Systems" *БаймырзаеваГаухарЖаксылыковна* 5. Head of the Department of Automation and Telecommunications *Yesmakhanova Laura Nurlanovna* 6. Head of the Department "Chemistry and Chemical Engineering" *Kalmakhanovamarzhanseitovna*	https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
15.00-15.110	Technical break	*IAAR External experts*	Rectorate, office # 404
15.110-16.00.00	Meeting with teaching	*staff 1, 2, 3 cluster (Appendix No. 1) (session hall zoom1)* *4,5, 6 cluster (Appendix No. 2) (zoom2 session hall)*	Rector's Office, Academic Council meeting Room, 4th floor, No.403 Connect to the Zoom conference https://us02web.zoom.us/j/9623882483 https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
16.00-16.40	Teaching staff survey *(in parallel)*	*Appendix 3*(list with current e-mail addresses)	*The link is sent to the teacher's email address in person 5 minutes before the start of the survey* Rector's office, office # 302
16.000-16.20	Technical break	*IAAR external experts*	Rector's office, office # 404
16.220-18.0.00	Visual inspection of the public organization	*Appendix 4 (Route through clusters with responsible persons)* *Video clip (10-15-minute video about the OP infrastructure: auditoriums, halls, laboratories, sports, etc. halls...) on clusters for online experts*	*On route*
18.0.00-18.30	Work of the VEC (discussion of results and summing up the results of 1 day)	*IAAR External Experts*	Rectorate Office # 404 Connect to Zoom Conference https://us02web.zoom.us/j/9623882483

			Conference ID: 962 388 2483
18.30 – 19.30	*Supper*	*IAAR External Experts Dinner Day*	
		2: May 24 2024	
09.00-09.30.30	Work of the HEC (discussion of organizational issues)	*IAAR External Experts*	Rectorate Office # 404 Connect to Zoom Conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
09.30-10.30.30	Meeting with students	*1, 2, 3 cluster (Appendix #5) (session hall zoom1)* *4,5, 6 cluster (Appendix #6) (session hall zoom2)*	Rectorate, hall Academic Council meetings, 4th floor, No.403 Connect to the Zoom conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
10.30-11.30.30	Student survey (in parallel)	*Appendix No. 7 (list with current e-mail addresses)*	*The link is sent to the student's email address personally 5 minutes before the start of the survey* Rector's Office, office no. 302
10.30-10.40.40	Technical break	*IAAR External Experts*	Rectorate Office no. 404
10.40-13.00	Working with department documents *(documents must be uploaded to the cloud by cluster in advance, if necessary, department heads will be invited to online (Zoom) and scheduled attendance of*	**Cluster 1** Link to the cloud:Link to the cloud: *public:\\Academic activities\Department of Academic Affairs\Accreditation 2024* **Cluster 2** Link to cloud: Link to cloud: *public:\\Academic activities\Department of Academic Affairs\Accreditation 2024* **Cluster 3** Link to cloud: Link to cloud: *public:\\Academic activities\Department of Academic Affairs\Accreditation 2024* **Cluster 4** Link to cloud: Link to cloud: *public:\\Academic activities\Department of Academic Affairs\Accreditation 2024*	Rector's Office, office # 404 Connect to the Zoom conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483

	teaching staff classes (*Appendix 8*)	**Cluster 5** Link to cloud: Link to cloud: *public:\\Academic activities\Department of Academic Affairs\Accreditation 2024* **Cluster 6** Link to cloud: Link to cloud: *public:\\Academic activities\Department of Academic Affairs\Accreditation 2024*	
13.00-14.00	***Lunch break***	*IAAR External experts*	
14.00-16.00	Visit to the OP practice bases (parallel across clusters)	*Appendix # 9 (route by cluster)*	On the route
16.00-16.10	Technical break	*IAAR External experts*	Rectorate, office # 404
16.10-16.50	Meeting with employers OP	*Appendix # 10 (list for each cluster)*	Rector's Office, Academic Council meeting Room, 4th floor, No.403 Connect to the Zoom conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
16.50-17.00	Technical break	*IAAR External experts*	Rectorate, office # 404
17.00-17.45	Meeting with graduates	*Appendix # 11 (list for each cluster)*	Rector's Office, Academic Council meeting Room, 4th floor, No.403 Connect to the Zoom conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
17.45-18.00	Technical break	*IAAR external experts*	Rectorate, office # 404
18.00-20.00	Work of the HEC, discussion of the results of the second day and profile parameters (*recorded*)	*IAAR External Experts*	Rectorate Office # 404Connect to Zoom Conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
20.00-21.00	***Supper***	*IAAR External Experts Dinner Day*	

3: May 25, 2024			
09.00-11.30	Work of the HEC (development and discussion of recommendations)*(recording is underway)*	*IAAR External Experts*	Rectorate Office # 404 Connect to Zoom Conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
11.30-11.40	Technical break	*IAAR External experts*	Rectorate, office # 404
11.40-13.00	Workof the Higher Economic Commission, development and discussion of recommendations	*IAAR External experts*	Rectorate office No. 404 (Individual expert work offline)
13.00-14.00	**Lunch break**	*IAAR External Experts*	
14.00-16.15.15	Work of the HEC, discussion, decision-making by voting (*recorded*)	*IAAR External Experts*	Rectorate Office # 404 Connect to Zoom Conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
16.15-16.30	Technical break	*IAAR External Experts*	Rectorate Office no. 404
16.30-17.0.00	Final meeting of the HEC with the university management	*Heads of the University and structural divisions*	Academic Council Meeting Room 4th floor, No.403 Connect to Zoom conferences https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
18.00-19.00.00	**Dinner**	*IAAR External Experts*	

Note: The program is developed on the basis of Guidelines for organizing and Conducting an external assessment procedure in the process of accreditation of an educational organization and (or) an educational program (Order of the Director of the NAAR No. 42-17-OD of June 30, 2017),

Guidelines for organizing and conducting an on-line visit of an external expert commission (including a visit of an expert group on post-accreditation monitoring) for the duration of restrictive measures in connection with the COVID-19 pandemic (Order of the Director General of the NAAR No. 58-20-OD of July 01, 2020)

Abbreviations *IAAR – Independent Accreditation and RatingAgency, EEC – External Expert Commission ofIAAR, NGO – educational organization, SP – educational program, teaching staff – teaching staff*

Appendix 6. RESULTS OF THE TEACHING STAFF SURVEY

1. **Total number of questionnaires: 56**

2. Position,%

Professor	8 (14.3%)
Associate Professor / Associate Professor	20 (35.7%)
Senior teacher	27 (48.2%)
Teacher	0 (0%)
Head of Department Department	1 (1.8%)
Assistant Professor	0 (0%)

3. Academic degree, academic title

Honored Worker	0 (0%)
Doctor of Science	3 (5.4%)
Candidate of Science	18 (32.1%)
Master	's degree 24 (42.9%)
PhD	11 (19,6%)
Professor	2 (3.6%)
Associate Professor / Associate Professor	4 (7.1%)
No	0 (0.0%)
Other	0 (0.0%)

4. Work experience at this university

Less than 1 year	0 (0%)
1 year – 5 years	1 (1.8%)
Over 5 years	55 (98.2%)
Other	0 (0%)

№	Questions	Very good	Good	Relatively bad	Bad	Very bad	Not answered
5	To what extent does the content of the educational program meet your scientific and professional interests and needs?	34 (60,7%)	21 (37,5%)	1 (1,8%)	0 (0%)	0 (0%)	0 (0%)
6	How do you assess the opportunities provided by the University for the professional development of teaching	staff 24 (42,9%)	28 (50%)	4 (7,1%)	0 (0%)	0 (0%)	0 (0%)
7	How do you assess the opportunities provided by the University for career growth of teaching	staff 22 (39.3%)	29 (51,8%)	5 (8,9%)	0 (0%)	0 (0%)	0 (0%)
8	How do you assess the degree of academic freedom of teaching	staff 26 (46,4%)	25 (44,6%)	4 (7,1%)	1 (1,8%)	0 (0,0%)	0 (0%)
	To what extent can teachers use their own						
9	• Learning Strategies	32 (57,1%)	21 (37,5%)	2 (3,6%)	0 (0%)	1 (1,8%)	0 (0%)
10	• Teaching methods	31 (55,4%)	22 (39,3%)	3 (5,4%)	0 (0%)	0 (0%)	0 (0%)
11	• Educational innovations	30 (53,6%)	25 (44,6%)	1 (1,8%)	0 (0%)	0 (0%)	0 (0%)
12	How do you assess the work on the organization of medical care and disease prevention at the university?	17 (30,4%)	32 (57,1%)	7 (12,5%)	0 (0%)	0 (0,0%)	0 (0%)
13	How is the management of an educational institution paying attention to the content of the educational program?	27 (48,2%)	26 (46,4%)	2 (3,6%)	0 (0%)	1 (1,8%)	0 (0%)
14	How do you assess the adequacy and availability of the necessary scientific and educational literature in the library?	33 (58,9%)	23 (41,1%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
15	Evaluate the level of created conditions that take into account the needs of different groups of students?	22 (39,3%)	32 (57,1%)	1 (1,8%)	0 (0%)	1 (1,8%)	0 (0%)

	Evaluate theopenness and accessibility of the manual						
to 16	• Students	23 (41,1%)	27 (48,2%)	4 (7,1%)	1 (1.8%)	1 (1.8%)	0 (0%)
17	• for teachers	22 (39,3%)	29 (51,8%)	2 (3,6%)	2 (3,6%)	1 (1,8%)	0 (0%)
18	Evaluate the involvement of teaching staff in the management and strategic decision-making process	13 (23,2%)	37 (66,1%)	4 (7,1%)	2 (3,6%)	0 (0%)	0 (0%)
19	How is the innovative activity of teaching staff encouraged?	25 (44,6%)	26 (46,4%)	3 (5,4%)	2 (3,6%)	0 (0%)	0 (0%)
20	Evaluate the level of feedback between the teaching staff and the management	team 20 (35,7%)	29 (51,8%)	4 (7,1%)	2 (3,6%)	1 (1.8%)	0 (0%)
21	What is the level of encouragement and involvement of young professionals in the educational process?	21 (37,5%)	27 (48,2%)	8 (14,3%)	0 (0%)	0 (0%)	0 (0%)
22	Evaluate the opportunities created for professional and personal growth for each teacher and employee	19 (33,9%)	34 (60,7%)	2 (3,6%)	1 (1,8%)	0 (0%)	0 (0%)
23	Assess the adequacy of the university management's recognition of the potential and abilities of teachers	14 (25%)	33 (58,9%)	8 (14,3%)	1 (1,8%)	0 (0%)	0 (0%)
	How is job						
24	• on academic mobility	set up? 18 (32,1%)	31 (55,4%)	5 (8,9%)	1 (1,8%)	1 (1,8%)	0 (0%)
25	• On advanced training of teaching	staff 23 (41,1%)	26 (46,4%)	6 (10,7%)	0 (0%)	1 (1,8%)	0 (0%)
	Evaluate the support of the university and its management						
for 26	• research initiatives of teaching staff	23 (41,1%)	29 (51,8%)	4 (7,1%)	0 (0%)	0 (0%)	0 (0%)
27	• Development of new educational programs/disciplines / teaching methods	19 (33.9%)	34 (60,7%)	3 (5,4%)	0 (0%)	0 (0%)	0 (0%)
	Assess the level of teaching staff's ability to combine teaching						

28	• with scientific research	11 (19,6%)	37 (66,1%)	8 (14,3%)	0 (0%)	0 (0%)	0 (0%)
29	• with practical activities	12 (21,4%)	33 (58,9%)	11 (19,6%)	0 (0,0%)	0 (0%)	0 (0%)
30	Evaluate how students ' knowledge obtained at the university corresponds to the realities of the modern labor market requirements	22 (39,3%)	29 (51,8%)	4 (7,1%)	0 (0%)	1 (1,8%)	0 (0%)
31	How does the management and administration of the university perceive criticism in their address?	7 (12,5%)	40 (71,4%)	7 (12,5%)	2 (3,6%)	0 (0%)	0 (0%)
32	Evaluate how much your training load meets your expectations and capabilities?	17 (30,4%)	31 (55,4%)	7 (12,5%)	1 (1,8%)	0 (0%)	0 (0%)
33	Evaluate the focus of educational programs/training programs on developing students ' skills and abilities to analyze the situation and make forecasts?	16 (28,6%)	36 (64,3%)	3 (5,4%)	1 (1,8%)	0 (0%)	0 (0%)
34	Evaluate the extent to which the educational program meets the expectations of the labor market and employers in terms of its content and quality of implementation	18 (32,1%)	33 (58,9%)	5 (8,9%)	0 (0%)	0 (0%)	0 (0%)

35. Why do you work at this particular university?

1. Себебіөзмамандығымбойыншаосындабітіріп, әріқарай, өзімқалаптаңдағанмамандықбойыншажұмысберудіалдымамақсатқойдым.
2. This is my choice!
3. Біріншіден мен осы университеттеоқыдым, екіншіденуниверситеттежұмысжасайжүріпөзтәжірибеммен бөлісуұнайды. Өзім осы өңірдіңазаматымын. Маған ЖОО қызмететуұнайды
4. Жасмаманретіндежақсыкөмектеркөрсетілген
5. Осы университеттіңтүлегімін, мағанұнайды
6. This is my 2nd home, my whole life has been spent here
7. Осы университеттіңтүлегімін, осы аймақтағыжастарғабілімберудеөзүлесімдіқосқымкеледі
8. Ғылымсаласынакөпқолдаукөрсетіледі.
9. осы университеттібітірдім
10. Creative self-realization, doing science
11. Because you like it
12. Покқұрамыныңбіліктілігібілімділігі
13. I live in Taraz, I like my job
14. otezhaksy collective, bazasyzhaksy University

15. Ұнайды

16. Because there is an opportunity to grow both in your career and professionally, there are all the opportunities to engage in science and realize yourself in your professional activities.

17. Major regional University in Taraz

18. My alma mater

19. It is important for me to teach students, and the conditions for this are good at this university

20. I live in the city

21. Taraz Regional University is one of the largest and the only one in our region, and the specialty "Automation" is also available only in our university.Since I was a doctoral student at KazNTU named after K. I. Satpayev under a grant from TarSU named after M. H. Dulati, I want to stay here and contribute to the development of our specialty

22. I like teaching students. Support their ideas, implement startups, etc.

23. Өйткеніөзіме осы ЖОО мен кафедра ұнайды

24. because I graduated from this University and I correspond to the specialty

25. Себебі, осы ЖОО білімалып, кафедра меңгерушісініңұсынысыментаңдадым

26. Like,.

27. Мен осы оқуорнындабілімалдымжәнемағанстуденттерменжұмысістегенұнайды.

28. A good salary

29. Осы жоғарыоқуорныныңтүлегімін. Сондықтан осы саладатәжірибежинақтап.білімімдіжоғарлатумақсатындатаңдадым

30. Көпжылдықеңбекөтілініңнәтижесінжастарғабілім беру саласындаүйрету

31. Барлықэтаптарданбілімалып, бала шағалыболдым, рақмет!!

32. Көпжылдықеңбекөтілінжастарғасаясаттаумақсатында

33. This is my Almamater

34. Мамандығымныңсәйкескелуінебайланысты

35. I am a graduate of this university and I like to teach at the university.

36. I live and work in this city.

37. Меніңтаңдауым осы Дулатиуниверситетіболды

38. Осы өңірдіңтұрғынымын, басқатаңдаужоқ

39. This university is a multidisciplinary university that provides three-stage training of specialists

40. -

41. Осы өңірдіңтумасымын

42. I live in Taraz

43. Мен осы университеттіңтүлегімін

44. жолдамаменжіберген

45. TarRU named after M. H. Dulati is a multidisciplinary university that trains highly qualified specialists in various fields of activity.

46. By place of residence

47. Кәсіби даму

48. Жоғарыоқуорныңбітіргенсәттенжұмысістеудемін.

49. I chose to work at this university for several reasons. First, the university has an excellent reputation and recognition in the educational field, which makes it possible to work with highly qualified colleagues and motivated students. Secondly, it has all the necessary resources for research and software development, including state-of-the-art laboratories and library collections. Third, the university actively supports innovative projects and initiatives, which allows me to develop my professional skills and contribute to the development of educational technologies. Finally, an important factor was the fact that the university is located in the region where I would like to live and work, providing comfortable living conditions and professional growth.

36. How often are master classes andclasseswith the participation of practitioners held as part of your course?

very often	often	sometimes	very rarely	never
9 (16,1%)	29 (51,8%)	16 (28,6%)	1 (1,8%)	1 (1,8%)

37. How often do external со стороны teachers (domestic and foreign) participate in the learning process?

very often	often	sometimes	very rarely	never
12 (21,4%)	18 (32,1%)	21 (37,5%)	4 (7,1%)	1 (1,8%)

38. How often do you encounter the following problems in your work: (please give an answer in each line)

Questions	Are Often	Sometimes	Never	Answered
Lack of classrooms	4 (7,1%)	25 (44,6%)	27 (48,2%)	0 (0%)
Unbalanced academic load by semester	6 (10,7%)	26 (46,4%)	24 (42,9%)	0 (0%)
Unavailability of necessary literature in the library	0 (0%)	25 (44,6%)	31 (55,4%)	0 (0%)
Overcrowding of study groups (too many students in the group)	3 (5,4%)	15 (26,8%)	38 (67,9%)	0 (0%)
Inconvenient schedule	7 (12,5%)	34 (60,7%)	15 (26,8%)	0 (0%)
Inappropriate classroom conditions	2 (3,6%)	27 (48,2%)	27 (48,2%)	0 (0%)
Lack of Internet access/weak Internet	connection 9 (16,1%)	32 (57,1%)	15 (26,8%)	0 (0%)
Students ' lack of interest in learning	3 (5,4%)	29 (51,8%)	24 (42,9%)	0 (0%)
Late receipt of information about events	1 (1,8%)	17 (30,4%)	38 (67,9%)	0 (0%)

Lack of technical training tools in classrooms	1 (1,8%)	25 (44,6%)	30 (53,6%)	0 (0%)
Другие проблемы	Мәсележоқ - Жоқ нет Нет Лицензиялыпрограммалықөнімдердіңболмауы Қоғамдықжұмыстарматериалдықтүрдебағаланса, мәселен АК хатшысыжұмысы, кафедра бойынша бакалавр, магистранттардың, доктаранттардыңөндірістікпрактикасыбойыншажауаптыжұмыс, т.б. Жоқ Комнаты отдыха для преподавателей в свободное от занятий время Низкая заработная плата Көңілімтолады Ауырыпкплганкезде Ешқандаймәселелержоқ Существует проблема недостаточной интеграции между различными факультетами и отделами, что затрудняет междисциплинарное сотрудничество и обмен знаниями. Another problem is the high workload of teachers and researchers, which limits their ability to participate in additional projects and initiatives. Too much time is spent on extracurricular work Lack of a buffet an order was issued to pay for obtaining an academic title, it was said in the Ministry that they would pay not 17, but 25 MCI, we hope our university will pay ,and orders will be executed with the Ministry of There are no other problems Foreign Affairs There are no other problems No computer Very much unnecessary paperwork and urgency, There is no link to it . Maselezhok There are no problems The experience of the older generation is not taken into account due to their retirement. maselezhok A lot of requested papers, reports, etc. Baskazhauabynzhok ondiristertolykzhumyszhasasa Poorly organized training of teachers in leading universities in the country and abroad			

39. In the life of a university, there are many different aspects and aspects that affect each teacher and employee in one way or another. Rate how satisfied you are with:

Questions	Fully satisfied (0)	Partially satisfied (0)	Not satisfied (0)	Can't answer (0)
The attitude of the university's management towards you	27 (48,2%)	25 (44,6%)	3 (5,4%)	1 (1,8%)
Relationships with direct management	34 (60,7%)	18 (32,1%)	4 (7,1%)	0 (0,0%)
Relations with colleagues in the department	46 (82,1%)	10 (17,9%)	0 (0,0%)	0 (0%)
Degree of participation in management decision	-making 32 (57,1%)	20 (35,7%)	3 (5,4%)	1 (1,8%)
Relations with students	51 (91,1%)	5 (8,9%)	0 (0%)	0 (0%)
Recognition of your success and achievements by the administration	37 (66,1%)	16 (28,6%)	3 (5,4%)	0 (0%)
Support for your suggestions and comments	32 (57,1%)	22 (39,3%)	1 (1,8%)	1 (1,8%)
Activities of the university administration	31 (55,4%)	19 (33,9%)	5 (8,9%)	1 (1,8%)
Payment terms and conditions	25 (44,6%)	28 (50%)	3 (5,4%)	0 (0%)
Working conditions, list and quality of services provided at the university	29 (51,8%)	25 (44,6%)	2 (3,6%)	0 (0%)
Occupational health and safety	42 (75%)	12 (21,4%)	1 (1,8%)	1 (1,8%)
Managing changes in the university	's activities 27 (48,2%)	26 (46,4%)	2 (3,6%)	1 (1,8%)
Providing a social package: recreation, sanatorium treatment, etc	. 25 (44,6%)	22 (39,3%)	6 (10,7%)	3 (5,4%)
Organization and quality of nutrition at the university	12 (21,4%)	27 (48,2%)	13 (23,2%)	4 (7,1%)
Organization and quality of medical care	24 (42,9%)	26 (46,4%)	3 (5,4%)	3 (5,4%)

Appendix 7. RESULTS OF THE STUDENT SURVEY

Total number of questionnaires: 63

1. Білім беру бағдарламаңыз (Ваша образовательная программа)?

6B07214 Technology and 6B07214 Food Processing Technology andEngineering	2	3.2%
7M07201 Food Processing Technology andFood Processing Technology and Engineering	2	3.2%
6B07211 Innovative Textiles	3	4.8%
7M07211 Innovative Textiles	2	3.2%
6B07215 Food Technology	3	4.8%
6B06111 Computer Science and Computer Science	4	6.3%
7M06111 Computer Science and Computer Science	2	3.2%
7M06114 Programming and Programming Software development	2	3.2%
6B06118 Information Systems and Technologies	8	12.7%
6B06120 Software Engineering	5	7.9%
6B07122 Automation and Informatization in Control systems	3	4.8%
6B05314 Chemistry	8	12.7%
7M05311 Chemistry	3	4.8%
6B07115 Chemical Engineering and Processes	3	4.8%
7M07112 Chemical Engineering and Processes	1	1.6%
6B07511 Standardization and Management Quality Management in Industry	5	7.9%
7M07513 Standardization and Quality management in Industry (2 years)	2	3.2%
7M06113 Corporate Information Systems and Technologies	5	7.9%

2. Жынысыңыз (Пол)

Ер (male)   31 people   49, 2%
Әйел (female) 32 people   50, 8%

3. Төмендегіжағдайларғакөңіліңіздіңқаншалықтытолатындығынбағалаңыз: (Оцените, насколько Вы удовлетворены:)

Questions	Fully satisfied	Partially satisfied	Partially	unsatisfied Not satisfied	I can't answer
1. Relations with the dean	's office 54 people	6 people	0 people	1 person	2 people
2. The level of accessibility of the dean	's office (81 %)	(15,9 %)	(0 %)	(1,6 %)	(1,6 %)
3. The level of accessibility and responsiveness of the university management	54 people	7 people	0 people	1 person	1 person
4. The availability of academic advice	to you(82,5 %)	(14,3 %)	(1,6 %)	(0 %)	(1,6 %)
5. Support with educational materials in the learning process	55 people	5 people	1 person	1 person	1 person

Questions	Fully satisfied	Partially satisfied	Partially	unsatisfied Not satisfied	I can't answer
6. Availability of counseling on personal problems	(82,5 %)	(12,7 %)	(1,6 %)	(1,6 %)	(1,6 %)
7. Relations between student and teacher	54 pers	7 pers	1 pers	0 pers	1 pers
8. Financial and administrative services of the educational institution	(77,8 %)	(17,5 %)	(3,2 %)	(0 %)	(1,6 %)
9. Availability of health services	47 people	9 people	4 people	1 person	2 people
10. Quality of medical care in higher education institutions	(71,4 %)	(17,5 %)	(4,8 %)	(1,6 %)	(4,8 %)
11. The level of availability of library resources	56 people	5 people	1 person	0 people	1 person
12. The quality of services provided in libraries and reading rooms	(92,1 %)	(4,8 %)	(1,6 %)	(0 %)	(1,6 %)
13. Satisfaction with the existing educational resources of the university	52 people	6 people	4 people	0 people	1 person
14. Availability of computer classes	(74,6 %)	(20,6 %)	(3,2 %)	(0 %)	(1.6 %)
15. Availability and quality of Internet resources	49 people	10 people	2 people	1 person	1 person
16. Content and information content of the website of educational organizations in general and faculties (schools) in particular	(81 %)	(14,3 %)	(3,2 %)	(0 %)	(1,6 %)
17. Study rooms, auditoriums for large groups	52 people	8 people	2 people	0 people	1 person
18. Rest rooms for students (if available)	(76,2 %)	(12,7 %)	(4,8 %)	(1,6 %)	(4,8 %)
19. Clarity of the procedure for taking disciplinary measures	51 pers	7 pers	2 pers	0 pers	3 pers
20. The quality of the educational program as a whole	(77,8 %)	(17,5 %)	(1,6 %)	(1,6 %)	(1,6 %)
21. The quality of educational programs in the OP	50 people	8 people	3 people	1 person	1 person
22. Teaching methods in general	(74,6 %)	(17,5 %)	(4,8 %)	(1,6 %)	(1,6 %)
23. Quick response to feedback from teachers regarding the educational process	52 people	9 people	1 person	0 people	1 person
24. The quality of teaching in general	(81 %)	(14,3 %)	(3,2 %)	(0 %)	(1.6 %)
25. Academic load / student requirements	50 people	11 people	1 person	0 people	1 person
26. Teaching staff requirements for a student	(81 %)	(15,9 %)	(1,6 %)	(0 %)	(1.6 %)
27. Information support and explanation of the admission rules and strategy of the educational program (specialty)before entering the university	50 people	10 people	2 people	0 people	1 person
28. Informing the requirements for successfully completing this educational program (specialty)	51 pers	. 10 pers.	1 pers.	0 pers.	1 pers. The

Questions	Fully satisfied	Partially satisfied	Partially	unsatisfied Not satisfied	I can't answer
29. quality of exam materials (tests and exam questions, etc.)	(81 %)	(12,7 %)	(3,2 %)	(1,6 %)	(1,6 %)
30. Objective assessment of knowledge, skills and other academic achievements	52 persons	9	1 person	0 people	1 person
31. persons 1 persons 0 persons 1 persons Available computer classes	(81 %)	(14,3 %)	(3,2 %)	(0 %)	(1.6 %)
32. Available scientific laboratories	49 people	12 people	1 person	0 people	1 person
33. Objectivity and fairness of teachers	(82,5 %)	(11,1 %)	(4,8 %)	(0 %)	(1.6 %)
34. Informing students about courses, educational programs and academic degrees	54 people	7 people	1 person	0 people	1 person
35. Providing students with a hostel	(77,8 %)	(14,3 %)	(3,2 %)	(0 %)	(4,8 %)

4. Evaluate how much you agree with:

Approval	Full agreement	Agree	Partially agree	Disagree	Fully disagree	Not answered
1. The course program was clearly presented	53 people	7 people	2 people	0 people	1 person	-
2. The course content is well structured	(79,4 %)	(15,9 %)	(3,2 %)	(0 %)	(1.6 %)	-3
. Key terms are sufficiently explained	51 people	8 people	3 people	0 people	1 person	-
4. The material proposed by the teacher is relevant and reflects the latest achievements in science and practice	(77,8 %)	(12,7 %)	(6,3 %)	(1,6 %)	(1,6 %)	-5
. The teacher uses effective teaching methods	49 people	12 people	2 people	0 people	0 people	-
6.The teacher knows the taught material	(81 %)	(15,9 %)	(3,2 %)	(0 %)	(0 %)	-7
. The teacher's presentation is clear	54 people	7 people	2 people	0 people	0 people	-
8.The teacher presents the material in an interesting form	48 people	11 people	4 people	0 people	0 people	-
9. Objective assessment of knowledge, skills, and other academic achievements	(76,2 %)	(19 %)	(4,8 %)	(0 %)	(0 %)	-10
. Timely assessment of students ' academic achievements	49 people	12 people	2 people	0 people	0 people	-
11.The teacher meets my requirements for personal development and professional development	(81 %)	(12,7 %)	(6,3 %)	(0 %)	(0 %)	-12

. The teacher encourages the activity of students	50 people	10 people	3 people	0 people	0 people	-
13. The teacher encourages students ' creative thinking	(73 %)	(23,8 %)	(3,2 %)	(0 %)	(0 %)	-14
. The appearance and manners of the teacher are adequate	52 people	10 people	1 person	0 people	0 people	-
15. The teacher shows a positive attitude to students	52 people	10 people	1 person	0 people	0 people	-
16.The system of assessment of academic achievements (seminars, tests, questionnaires, etc.) reflects the content of the course	(81 %)	(17,5 %)	(1,6 %)	(0 %)	(0 %)	-17
.Evaluation criteria, used by the teacher, clear	48 people	13 people	2 people	0 people	0 people	-
18. The teacher evaluates students ' achievements objectively	(84,1 %)	(11,1 %)	(4,8 %)	(0 %)	(0 %)	-19
. The teacher speaks a professional language	50 people	11 people	2 people	0 people	0 people	-
20. The organization of education provides sufficient opportunities for sports and other leisure	activities(76,2 %)	(15,9 %)	(7,9 %)	(0 %)	(0 %)	-21
. Facilities and equipment for students are safe, comfortable and modern	51 people	10 people	2 people	0 people	0 people	-
22. The library is well equipped and has a fairly good collection of books	(85,7 %)	(12,7 %)	(1,6 %)	(0 %)	(0 %)	-23
.Equal opportunities are provided to all students	52 people	7 people	4 people	0 people	0 people	-

5. Other problems regarding the quality of teaching (Baskameseleler): 28 responses

Жоқ
Мәселе жоқ
Басқа мәселе жоқ
-
Super
 Маселе жоқ
+
басқа мәселе жоқ)
There are no problems
Ешқандай мәселелер жоқ
A large program often spends a large amount of time, which leaves little personal time.
Ұсынысым жоқ
Hdjsj
Барлығы қарастырылады
there are no problems
I didn't notice any problems with the quality of teaching
барлығы менің көңілімнен шығады
satisfied
Студенттермен жеке жеке жұмыс істеу керек потенциалын жауапкершілік сезіндәру байқамадым
Асхана жағдайын дұрыстау қажет, биылдыққа асхана мүлдем жұмыс жасамады
Masele dock